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5/17/88

150810

REMEDIAL INVESTIGATION

AUTO ION INCORPORATED
KALAMAZOO, MICHIGAN

APPENDICES

Prepared for:

Auto Ion Steering Committee
Eastman and Smith
240 Huron Street
Suite 800
Toledo, Ohio 43604

Prepared by:

Fred C. Hart Associates, Inc.
3000 Town Center
Suite 315
Southfield, Michigan 48075

May 17, 1988

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APPENDIX I

Detailed Site Maps

SDMS US EPA REGION V
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IMAGERY INSERT FORM

The item(s) listed below are not available in SDMS. In order to view original document or document pages, contact the Superfund Records Center.

SITE NAME	AUTO ION		
DOC ID #	150810		
DESCRIPTION OF ITEM(S)	SITE MAP		
REASON WHY UNSCANNABLE	_X_OVERSIZED	OR	___ FORMAT
DATE OF ITEM(S)	3/6/88		
NO. OF ITEMS	1		
PHASE	REMEDIATION		
PRP	RMD - AUTO ION		
PHASE (AR DOCUMENTS ONLY)	___ Remedial ___ Removal ___ Deletion Docket ___ AR ___ Original ___ Update # ___ Volume ___ of ___		
O.U.			
LOCATION	Box #___ Folder # ___ Subsection ___		
COMMENT(S)			

		DESCRIPTION	

AUTO ION

KALAMAZOO, MICHIGAN

HART

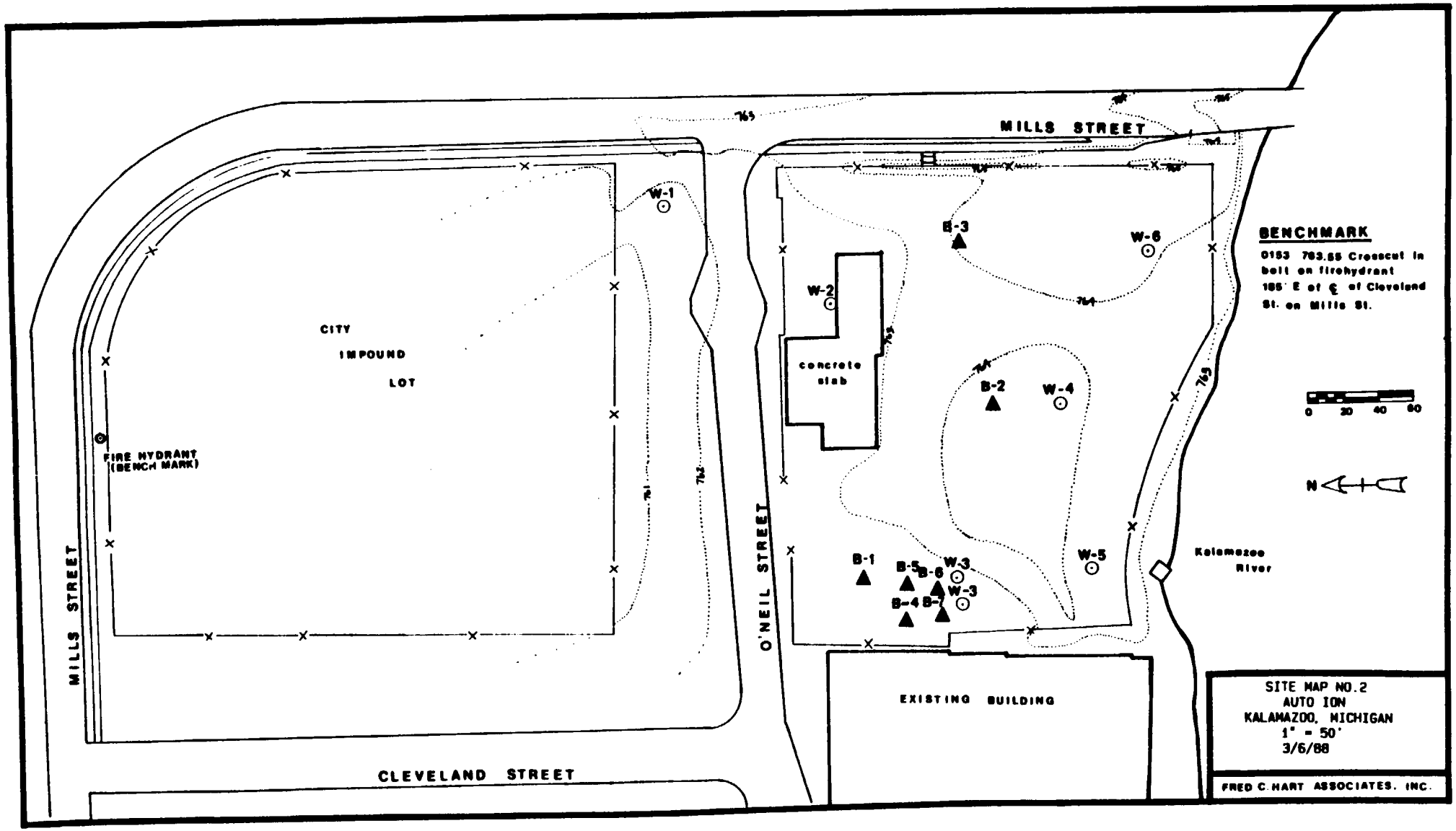
Fred C. Hart Associates

DRWN: KB	CHK'D: BB	APP'D: RM
SCALE: 1" = 20'		DATE: 3-6-88

SITE MAP

	DRAWING NO.

Storm Inlet


MILLS STREET
CLEVELAND STREET
O'NEIL STREET
CITY
IMPOUND
LOT
FIRE HYDRANT
(BENCH MARK)
concrete
slab
EXISTING BUILDING
Kalamazoo
River
W-1
W-2
W-3
W-4
W-5
W-6
B-1
B-2
B-3
B-4
B-5
B-6
B-7
765
764
763
BENCHMARK
0153 763.55 Crosscut in bolt on firehydrant 185' E of ℄ of Cleveland St. on Mills St.
0
20
40
60
N
SITE MAP NO.2
AUTO ION
KALAMAZOO, MICHIGAN
1" = 50'
3/6/88
FRED C. HART ASSOCIATES, INC.

APPENDIX II

Chronology of Significant Events

Presented below is the site chronology by CH_2M Hill in the Final Action Master Plan, Auto Ion Waste Treatment Facility 01-5VC4.0 dated 1984.

INTRODUCTION

The following site chronology is intended to serve as a general summary and order of events of known activities at or concerning the site. It is a date-by-date compilation of some of the information obtained by reviewing U.S. EPA and State files containing available correspondence, reports and documents pertinent to the site.

SITE CHRONOLOGY

12-18-63	Auto Ion visited by C. Harvey (Michigan Water Resources Commission; WRC) and L. Pratt (City of Kalamazoo Department of Public Works; KDWP). It was noted that considerable construction work remained uncompleted before the plant could begin operation.
1-31-64	J. Rooney (President, Auto Ion) submits a new use statement regarding cyanide destruction and chrome waste recovery with the intent to discharge treatment wastes to the City of Kalamazoo sewage system.
2-3-64	R. Purdy (WRC) informs J. Rooney that Rooney's statement describing Auto Ion's proposed use of the waters of the state for waste disposal purposes is acknowledged and has been referred to R. J. Courchaine (WRC) for investigation and recommended action.
2-6-64	Letter from R. Courchaine (WRC) to L. Pratt (KDPW) regarding a statement of intended use of the Kalamazoo River for disposal of wastes by Auto Ion. Courchaine indicated efforts would be made for discharge into the municipal system before considering direct discharge into the river.
2-20-64	C. Harvey (WRC) and L. Pratt (KDPW) meet with J. Rooney to discuss proposed operations at the site.

6-2-64	C. Harvey (WRC) files staff report of recent site visit to Auto Ion made by himself and L. Pratt (KDPW). During the site visit it was noted that there were no dikes or safeguards surrounding the storage tanks for caustic soda and sulfuric acid. Also, it appeared that a previous discharge into the sanitary lines had taken place without the knowledge of approval of the City.
6-4-64	Letter from L. Pratt (KDPW) to J. Rooney regarding failure to comply with necessary construction changes.
6-11-64	Letter from R. Purdy (WRC) to J. Rooney regarding disposal and treatment of waste cyanide solution received from Denham Manufacturing Company, Big Rapids, Michigan before being approved to do so by the WRC or the KDPW.
6-15-64	Letter from J. Rooney to R. Purdy (WRC) indicating the necessary curbing and containment devices which have been required are installed.
Late June 1964	Letter from the Michigan Department of Public Health (MDPH) to Auto Ion stating acid should not be discharged to the Kalamazoo River.
7-13-64	Letter sent to the WRC requesting an investigation of Auto Ion Chemicals, Inc. for accepting cyanide, chronic acid and spent sulfuric acid and disposing of these wastes by dumping without treatment. The letter was not signed.
7-29-64	Letter submitted to R. Purdy (WRC) from J. Rooney cancelling application to discharge cooling water to the Kalamazoo River due to installation of a new cooling system that utilizes evaporating condensers.
7-29-64	Letter submitted to R. Purdy (WRC) from J. Rooney regarding Auto Ion's capability to treat ammonia gas for use as a fertilizer. Rooney requests names of companies that may need this service.
8-12-64	Letter submitted to J. Rooney from R. Purdy (WRC) regarding Rooney's request for a list of companies which may require ammonia disposal. Purdy indicates the Department of the Air Force presently has a satisfactory treatment for disposing of anhydrous ammonia.

9-3-64	J. Rooney informed by R. Purdy (WRC) that the application to discharge cooling or other water into the Kalamazoo River will not be processed since Auto Ion will not discharge directly into the river.
6-28-67	Letter sent from I. Davis (MDPH) to L. Oeming (WRC) regarding air and river contamination caused by a truck carrying hydrochloric acid that developed a leak.
1-26-68	Letter submitted to J. Rooney from C. Harvey (WRC) regarding questionable operations at Auto Ion. Harvey cited the results of two samples collected in late fall. A sample collected from the outfall drain shows the presence of trivalent chromium and oil. Results of a sample collected 1-24-68 from spillage on the ground near the Kalamazoo River showed 135 mg/1 trivalent chromium, 3300 mg/1 nickel, 7900 mg/1 hydrogen sulfate with a pH of 0.1.
2-5-58	Letter submitted to C. Harvey (WRC) from J. Rooney regarding progress on a detailed operations report.
2-9-68	Letter submitted to J. Rooney from C. Harvey (WRC) discussing the results of the sample collected 1-24-68.
2-15-68	Letter submitted to C. Harvey (WRC) from J. Rooney regarding the completion of the Auto Ion Waste Treatment Plant.
4-2-68	C. Harvey (WRC) corresponds to J. Rooney concerning the methods Auto Ion uses in chrome, cyanide and metallic wastes.
4-4-68	Letter submitted to J. Rooney from C. Harvey (WRC) regarding concerns of receiving wastes without having a completed system capable of handling the wastes.
7-17-69	MDNR staff member visited plant and observed approximately 20 gpm of caustic water being discharged into the Kalamazoo River from an Auto Ion truck. Analytical results of a sample collected from the waste showed the presence of hydrogen sulfide and an alkalinity of 240,000 mg/1 sodium hydroxide.

12-31-69	Letter submitted to J. Rooney from C. Harvey (WRC) regarding illegal disposal of barrels to a dump operated by the KDPW.
12-31-69	Letter submitted to Mr. Rooney from WRC regarding disposal of barrels containing cyanide waste at a Kalamazoo city landfill. The letter also cited the provisions of Act 136, P. A. of 1969, requiring haulers of liquid industrial wastes to be licensed.
1-6-70	H. A. Young (WRC) noted on a memorandum to C. Harvey (WRC) that he was visited by J. Rooney.
1-7-70	J. Rooney submits application for Auto Ion Chemicals, Inc. to be licensed as a liquid industrial waste hauler.
1-30-70	Memorandum from C. Harvey (WRC) to H. Young/W. Turney (WRC) recommending denial of application to Auto Ion Chemicals, Inc. for a license to haul liquid industrial waste due to not complying with Act 136, P. A. 1969.
2-4-70	Memorandum from H. A. Young (WRC) to J. Rooney notifying Rooney of disproval of application for a license to haul liquid industrial waste.
3-16-70	WRC staff members meet with Mr. Rooney at his plant site to review equipment and operating deficiencies so that they may both be upgraded and the company could be licensed.
3-30-70	Letter from J. Rooney to C. Harvey (WRC) submitting a timetable for completion of the effluent treatment facilities and a description of plans for interim and regular effluent treatments in accordance with the meeting held on 3-16-70.
4-12-70	Letter submitted to C. Harvey (WRC) from J. Rooney regarding asphalting and installation of sump drains due to the spillage of chemicals on the ground.
4-24-70	Letter from C. Harvey (WRC) to H. Young (WRC) suggesting Auto Ion Chemicals, Inc. be licensed to haul industrial waste based on their timetable and program for facility improvements.

6-30-70	E. Ferguson (Police Officer) met with J. Pope (Water Quality Supervisor) in an attempt to contact J. Rooney.
7-2-70	E. Ferguson (Police Officer) arrested J. Rooney on the charge of engaging in the business of removing liquid industrial wastes without being licensed as required by Act 136, P.A. 1969; however, he was released because warrant cited Rooney himself, rather than Auto Ion, as the responsible party.
7-13-70	Letter from J. Rooney to C. Harvey/H. Young (WRC) regarding actions taken towards completing the effluent treatment facilities.
7-17-70	Letter from G. Dahl (Law Enforcement Division, MDNR) to J. Maslowski (Assistant Attorney General) regarding the arrest of J. Rooney and the incidence that led to it.
7-17-70	Letter from H. A. Young (WRC) to J. Rooney enclosing a refund check of the fee that was included with the application for a license to haul liquid industrial waste and reasons the license was not approved.
7-28-70	Memorandum from H. A. Young (WRC) to file regarding call from Gene Mogg, (WRC). Mr. Mogg received a call from Mr. Hadden of the Brunswick Corporation. Rooney informed Hadden that he was licensed to haul liquid industrial waste, although he did not feel a license was necessary since he planned to make a usable product out of material hauled from Brunswick. Young informed Mogg to notify Hadden that Auto Ion was not licensed and regardless of the fate of a waste product, licensing is required to haul the material.
8-25-70	J. Rooney submits application for license to remove and transport liquid industrial waste to the WRC.
9-22-70	Site visit was made by J. Pope (WRC) to inspect waste hauling and treatment facilities. A consulting engineer for Auto Ion outlined an improvement plan

9-25-70	Jame Pope (WRC) reported a stalled Auto Ion tank truck to Michigan State Police Patrolman Charles Anderson. Pope sampled waste dripping from the tanker and from a loading hatch atop the truck. Analytical results of the sample collected from the dripping waste showed 350 mg/1 chromium with a pH of 11.5. The sample obtained from the top of the tanker proved to be light oil.
9-26-70	A. J. Palladino, (Consulting Engineer, Auto Ion) submits revised effluent treatment plan to C. Harvey (WRC).
9-28-70	Site visit to Auto Ion still revealed deficiencies in waste transportation, handling and treatment facilities.
10-6-70	J. Pope (WRC) and H. Young (WRC) meet with assistant prosecutor Peterson on matters about Rooney. Rooney submits application for additional licenses for four vehicles.
10-27-70	H. A. Young (WRC) returns funds to J. Rooney which Rooney submitted along with application for a license to haul industrial waste. Rooney was informed he is not and had not been entitled to receive a license under conditions set forth in Act 136, P.A. 1969.
11-3-70	Mr. Rooney is requested to appear before the Water Resources Commission on 11-13-70 for purposes of initiating statutory proceedings against him.
11-10-70	Letter form L. Pratt (KDPW) to J. Rooney confirming a discussion that occurred 11-9-70 pertaining to treated waste provisions.
11-13-70	WRC conference with Auto Ion. Due to company's continuing failure to comply with legal requirements for handling and discharging of waste, the WRC directed the matter be referred to the Attorney General's office for appropriate legal action.
11-20-70	Letter from R. Purdy (WRC) to Frank J. Kelly (Attorney General) requesting a determination of appropriate legal action against Auto Ion.
11-25-70	J. Rooney submits application for license to remove and transport liquid industrial waste to the WRC.

12-8-70	R. Purdy (WRC) submits a copy of the conference with Auto Ion held before WRC at its November 12-13, 1970 meeting, to J. Rooney.
12-15-70	Auto Ion is bonded by the Hartford Accident and Indemnity Company for the period 1-1-71 through 12-31-71.
12-15-70	H. Young (WRC) recommends to W. G. Turney (WRC) that Auto Ion be licensed under Act 136. In this way, Rooney will be culpable under this Act.
12-28-70	J. Rooney's application for a license to remove and transport liquid industrial waste is approved by the WRC.
2-9-71	WRC receives the Record of Removal of Liquid Industrial Waste from Auto Ion for the period 1-5-71 to 2-4-71.
2-12-71	C. Harvey (WRC) submits a letter to L. Pratt (KDPW) concerning the amount of sludge currently being produced at Auto Ion.
2-15-71	L. Pratt (KDPW) notifies Rooney that no samples have been submitted to the KDPW. Pratt questioned Rooney if discharge has or has not occurred since no samples have been submitted.
2-25-71	Rooney informs Pratt (KDPW) that Auto Ion has submitted representative samples on four separate occasions to the Kalamazoo waste disposal plant.
3-71	WRC receives the Record of Removal of Liquid Industrial Waste from Auto Ion for the period 2-5-71 to 3-4-71.
4-15-71	WRC receives the Record of Removal of Liquid Industrial Waste from Auto Ion for the period 3-8-71 to 4-2-71.
5-13-71	WRC receives the Record of Removal of Liquid Industrial Waste from Auto Ion for the period 4-5-71 to 5-4-71.

5-21-71	J. Pope and C. E. Mogg investigate a reported fish mortality in Portage Creek. Subsequently, a routine inspection of the Kalamazoo River was conducted at Auto Ion. Analytical results of four samples collected from discharge entering the Kalamazoo River showed chromium concentration as high as 14 mg/1. Other contaminant levels in the river samples showed as much as .34 mg/1 cyanide, 0.3 mg/1 copper, 3.0 mg/1 nickel. A sample collected from pooled waste at the base of the concrete structure near the river showed 460 mg/1 chromium, 135 mg/1 copper, 300 mg/1 nickel, 8 mg/1 cyanide. There was also a sample collected from the sludge pit which contained chromium, cyanide, copper and nickel.
6-30-71	D. Dennis (WRC) observed an Auto Ion truck disabled on I-94. There was no WRC license number of identification proving the truck was licensed to haul liquid industrial waste.
7-27-71	J. Pope and R. Przybysz (WRC) conducted a routine investigation at Auto Ion and discovered oil seeping from the river bank into the Kalamazoo River. Oil seepage apparently was coming from a sludge dewatering pond located on Auto Ion property. Samples were collected.
8-1-71	WRC receives the Record of Removal of Liquid Industrial Waste from Auto Ion for the period 5-6-71 to 7-27-71.
8-3-71	Letter from C. Harvey (WRC) to J. Rooney informing him that WRC found hexavalent chromium in a sludge pit on his property. Rooney was directed to correct measures to comply with regulations.
8-12-71	J. Rooney submits letter of compliance to C. Harvey (WRC) regarding violations documented in letter to Rooney on 8-3-71.

8-19-71	WRC investigation conducted to assess the biological effects and source of metals and oil loss to the Kalamazoo River in the vicinity of Auto Ion Chemical Co. Samples collected during the investigation showed relatively low concentrations of chromium, nickel, zinc, copper and cyanide in sediments at two control sites. However, increased concentrations of chromium and nickel were found in sediments in the vicinity of the Auto Ion blockhouse and high concentrations of chromium, nickel and copper were found in sediments and standing water "near a drainage pipe from the facility" at Auto Ion, though the drain itself could be a source of metals. High concentrations of oil were found at all sampling sites indicating an upstream source of contamination, although concentrations of oil from seepage areas indicate the primary source to the seepage area is the Auto Ion pit. In addition, qualitative invertebrate collection indicate lower water quality downstream from Auto Ion.
8-23-71	Auto Ion, Inc. and J. Rooney are informed by certified letter of a Notice of Determination and Hearing, adopted at the 8-19-71 WRC meeting, that he is to appear before the WRC on 9-23-71 regarding violations of the provisions of Act 136, P. A. 1969, in having failed to properly haul and dispose of toxic and hazardous liquid industrial wastes.
8-24-71	Rooney informs C. Harvey (WRC) of a recurrent oil film appearing on the river 8-23-71. Rooney stated the source of the discharge originated not from Auto Ion but elsewhere, discharging onto Auto Ion property, migrating through the sludge pit and into the river.
10-5-71	Norman Billings (WRC) requests Victor H. Meier (Attorney, State of Michigan) to schedule a hearing regarding Auto Ion.

10-11-71	The Acolor Company, adjacent to Auto Ion, called WRC to report irritating fumes emanating from Auto Ion. C. E. Mogg (WRC) investigated the incident and found that the pit area near Acolor contained 2000 gallons of nitric acid to which lime had been added causing the irritating fumes. The purpose of the nitric acid was to loosen the soil for excavation. Mogg (WRC) was informed by Auto Ion superintendent that a stainless steel tanker was expected at 3:00 PM at which time he would pump the lime and acid into the tanker.
10-13-71	J. Rooney informs R. Purdy (WRC) of planned improvements in Auto Ion's waste handling operation, as discussed with WRC staff 10-4-71, so as to avoid further legal proceedings.
10-15-71	R. Purdy (WRC) submits copy of the proceedings of the statutory hearing for Auto Ion to J. Rooney.
11-9-71	Hearing held to revoke Auto Ion's liquid industrial waste haulers license in order to abate pollution of the Kalamazoo River. Data was presented from chemical sampling conducted at Auto Ion on 5-21-71 and 8-19-71. The hearing resulted in Auto Ion and the WRC agreeing to formulate a stipulation under which Auto Ion would comply to continue operation.
11-15-71	L. Lindemer (Attorney, Auto Ion) submits the first draft of a proposed Stipulation to be entered into between the WRC and Auto Ion to D. Dennis (WRC).
12-10-71	V. H. Meier (WRC Hearing Commissioner) completes the interim report of the 9-23-71 hearing to revoke the Liquid Industrial Waste Haulers license of Auto Ion and abate the pollution of the Kalamazoo River due to Auto Ion's operating practices.
12-13-71	V. H. Meier (WRC Hearing Commissioner) forwards the interim report of the 9-23-71 hearing to revoke Auto Ion's license to Norman Billings (WRC).
12-16-71	J. Rooney forwards the outline of sanitation sewer connections to D. Dennis (WRC).

1-4-72	E. B. Hayden (Brunswick Corporation) requestes information from H. Young (MDNR) regarding the licensing status of Auto Ion as a waste hauler and processor.
1-10-72	J. Rooney submits a draft of a Stipulation between the WRC and Auto Ion to the WRC.
1-10-72	A. J. Palladino (Engineer, Auto Ion) forwards drawings of the location, dimensions, and capacity of the existing sludge lagoon at Auto Ion to F. B. Frost (WRC).
1-26-72	R. W. Purdy (WRC) informs V. H. Meier (WRC Hearing Commission) that a satisfactory stipulation with Auto Ion has not yet been reached. As a result, it appears that the hearing must be continued.
2-2-72	V. Meier (WRC Hearing Commissioner) informs Auto Ion, WRC, MDPH, and the Assistant Attorney General that since Auto Ion and the WRC have been unable to reach agreement on a satisfactory Stipulation, a continuance of the 11-9-71 hearing has been set for 2-21-72.
2-2-72	W. G. Turney (WRC) informs J. Rooney that the WRC is unable to accept the proposed stipulation. Therefore, the hearing would have to be continued. Due to the pending hearing, review of the 1971 application for a license to transport liquid industrial waste would be withheld until after the hearing.
2-16-72	Auto Ion submits a draft of a Stipulation between the WRC and Auto Ion to the WRC.
2-22-72	V. Meier (WRC Hearing Commissioner) informs Auto Ion, WRC, MDPH, and the Assistant Attorney General that the WRC and Auto Ion have been given an additional 60 days to work out their differences on a Stipulation.
2-24-72	J. Rooney is informed by D. Dennis (WRC) that the Stipulation delivered to the WRC office 2-16-72 could not be authorized due to a number of objections; however, WRC staff is preparing a revised agreement. Rooney is also informed that a license for 1972 has been approved.

4-4-72	During a routine investigation of Auto Ion by WRC staff, a flow was observed from the barrel storage area to the sludge pond. A sample collected from the flow showed a pH of 7.1 and a cyanide concentration of 340 mg/1.
4-21-72	J. Kitchel (WRC) signs the Stipulation between the WRC and Auto Ion submitted by Auto Ion on 4-17-72.
4-26-72	R. W. Purdy (WRC) sends a copy of the signed stipulation between WRC and Auto Ion to J. Rooney.
5-4-72	J. Rooney requests proper forms for report submittal from the WRC.
5-17-72	D. Dennis (WRC) forwards a copy of the signed Stipulation between Auto Ion and the WRC to L. Pratt (WDPW) and asks that he contact the WRC if Auto Ion does not act in accordance with the Stipulation as it pertains to the City of Kalamazoo.
5-22-72	J. Rooney informs D. Dennis (WRC) that the cause of the cyanide discharge which WRC staff observed on 4-4-72 was the result of a drain which had been unplugged to discharge rain water. Rooney stated that WRC staff had not only observed this activity but permitted it.
6-16-72	J. Shauver (WRC) informs J. Rooney that plans showing all fluid lines were due 5-1-72 as were plans for a new sludge holding and drying facility.
7-12-72	J. Rooney is notified by J. Shauver (WRC) of the action that must be taken to comply with the Stipulation signed 4-17-72.
7-24-72	A sample collected by WRC staff from a concrete pad in which no curbing was apparent showed 11,000 mg/1 hexavalent chromium.
7-28-72	A sample collected by WRC staff from a pool of metallic sludge showed 210 mg/1 copper, 1350 mg/1 nickel, and 200 mg/1 zinc (water soluble concentration). In addition, 100 mg/1 of cyanide was found in cyanide filter cake.
7-28-72	J. Rooney notifies J. Shauver (WRC) that water well drilling commenced on 7-28-72.

7-28-72	J. Rooney requests forms from WRC to complete reports.
7-28-72	J. Shauver and J. Ross (WRC) submit memorandum to D. Dennis (WRC) regarding several violations of the Stipulation, signed on 4-17-72 between Auto Ion and the WRC which were observed during site visits on 7-28-72 and 7-24-72.
8-23-72	J. Shauver (WRC) forwards computer generated monthly report sheets to J. Rooney.
10-31-72	F. B. Frost (WRC) notifies J. Rooney that if plans of fluid lines, records of discharges to the city sewer lines, and monthly reports of analyses of treated wastes are not received within 30 days, the WRC will refer the matter to the Attorney General for enforcement under the terms of the Stipulation.
11-10-72	J. Shauver (WRC) forwards forms and questionnaire for the 1973 liquid industrial waste hauler's license to Auto Ion.
11-14-72	J. Rooney submits a letter to F. B. Frost (WRC) refuting claims of non-compliance in Frost's letter dated 10-31-72.
12-72	Monthly Operating Reports submitted by Auto Ion to the WRC for monitoring wells #1, #2, and #3 show elevated levels of nickel in monitoring wells #1 and #3.
12-1-72	J. Shauver (WRC) submits memorandum to D. Dennis (WRC) in response to Auto Ion's letter dated 11-14-72. In addition to providing results of samples collected on 4-28, 7-24, and 7-28-72 documenting illegal discharge/spills, he reported that Rooney has not updated his sewerline plan since 7-10-72.
12-07-72	During a site visit J. Shauver (WRC) observed numerous violations at Auto Ion including 52 barrels of cyanide filter cake and about 4 inches of filter cake residue in the cement holding area. He also obtained information that overflow from a chrome tank was being discharged into the city sewer three nights a week. In addition Schauver (WRC) could only locate 3 of the supposedly 4 existing monitoring wells onsite.

1-73	Samples collected from an industrial outfall as well as two unknown locations at Auto Ion by WRC staff showed elevated levels of hexavalent chromium, cyanide, copper and nickel.
1-16-73	A sample collected by WRC staff from an overflow contained 5.5 mg/1 copper and 2200 mg/1 nickel. A sample collected from a tanker leaking fluid onto the yard contained 14 mg/1 copper, 3500 mg/1 nickel in addition to 65 mg/1 zinc and 6.7 mg/1 cyanide.
1-30-73	J. Rooney submits application for a license to remove and transport liquid industrial waste to the WRC. Subsequently, the WRC approved the license.
2-73 to 5-73	Samples collected by WRC staff from the seepage lagoon at Auto Ion showed levels as high as 410 mg/1 copper, 4000 mg/1 nickel, 240 mg/1 hexavalent chromium, 720 mg/1 cyanide, 76000 mg/1 HE (hexane: extractable oil & gas) with pH ranging from 3.7 to 11.5. Samples collected from a manhole directly north of Auto Ion on O'Neil Street contained levels as high as 11 mg/1 copper and a pH range of 7.2 to 11.7. Samples collected from a manhole to the northeast of the site at the corner of O'Neil and Mills Streets showed levels as high as 950 mg/1 copper, 1330 mg/1 nickel, 1.6 mg/1 cyanide, and 14,000 mg/1 HE with pH ranging from 6.5 to 11.6.
2-14-73	Hearing held to keep Auto Ion's license in a state of suspension until the license expires, after which the license should not be renewed. During the hearing numerous violations were cited by the WRC including an excessive number of barrels onsite, the absence of monitoring wells onsite, and a leaking tank truck. V. Meier (WRC Hearing Commissioner) stated he would recommend to the Commission that there be a 90 day monitoring program at Auto Ion at which time it can be decided if another hearing is necessary.
4-73 to 7-73	Monthly Operating Reports submitted by Auto Ion to the WRC for monitoring wells #1, #2, and #3 show elevated levels of nickel in monitoring wells #1 and #3. In June, 80 mg/1 of hexavalent chromium was found in monitoring well #2.

6-27-73	Continuation Hearing held concerning illegal discharges to and subsequent leakage from the seepage lagoon at Auto Ion among other violations. It was decided that the hearing needs to be continued at a later date but in the interim the seepage lagoon will no longer be used. Furthermore, the seepage lagoon will be emptied and filled in.
6-18, 19, 20-73	Industrial Wastewater Survey of Auto Ion conducted by WRC staff. Report compiled by T. A. Newell (WRC). John R. Crane, National Chlorinated Chemical Products Company, submits monthly bills to the MDNR for rental of equipment stored at 74 Mills Street for the period 12-03-81 through 3-04-82. Equipment consists of mixers and a bridge crane purchased from Tropical Essence Company.
8-2-73	Continuation Hearing held requesting Auto Ion not be re-licensed due to numerous violations. V. Meier (WRC Hearing Commissioner) withheld judgement until Hearing transcripts are issued.
11-1-73	S. Freeman (Assistant Attorney General, WRC) submits Proposed Findings of Fact and Proposed Conclusion of Law on Behalf of Staff to V. Meier (WRC Hearing Commissioner). The document recommends that Auto Ion not be permitted to renew its present license to haul, store, and treat liquid industrial waste.
11-29-73	V. Meier (WRC Hearing Commissioner) files a Report and Recommendation, the result of Hearings held with Auto Ion. Mr. Meier determined that the record had established that Auto Ion had violated the provisions of the Liquid Industrial Waste Act (Act 136, P.A. 1969) and the Water Resource Act (Act 245, P.A. 1929 as amended). As a result Auto Ion, in applying for a new license, has a duty to demonstrate to the WRC that its operation will meet the requirements of Act 136, P.A. 1969 and Act 245, P.A. 1929, as amended.
12-20-76	J. Rooney submits an Article of Incorporation to the Michigan Department of Commerce for The Tropical Essence Company, supposedly located at 74 Mills Street, Kalamazoo, Michigan; the same address as Auto Ion.

9-4-81	J. Rooney and the National Chlorinated Chemical Products Company, Inc., files a complaint for an Order of Superintending Control, Declaratory Judgement, and Injunctive Relief with the circuit court for the County of Kalamazoo, claiming to be the legal holder of the title to lots 23, 24, 25, 26, 27 and 28 of the O'Neill's plat of Union Addition in the City of Kalamazoo, the County of Kalamazoo, State of Michigan. The complaint disputes the order by the Kalamazoo City Commission to demolish the structure on the property.
9-4-81	J. Fitzgerald (Circuit Judge) issues an Ex-Parte Restraining Order restraining the City of Kalamazoo from demolishing the structure on lots 23, 24, 25, 26, 27, and 28 until the Show Cause Hearing scheduled for 11-3-81.
9-18-81	L. Newmeyer (Assistant City Attorney) files an answer with the circuit court for the County of Kalamazoo disputing the complaint filed by J. Rooney and the National Chlorinated Chemical Products Company, Inc. regarding the property at 74 Mills Street, City and County of Kalamazoo, State of Michigan.
11-03-81	J. Rooney and the National Chlorinated Chemical Products Company, Inc. file an Answer to Counter-claim and Answers to Defendants Interrogatories to Plaintiffs with the Circuit Court for the County of Kalamazoo.
11-05-81	J. Fitzgerald (Circuit Judge) issues an Order adding the State of Michigan as a party plaintiff to the case of J. Rooney and the National Chlorinated Chemical Products Company, Inc. vs. The City of Kalamazoo.
11-06-81	C. Etter (Attorney J. Rooney) issues a Third Party Summons to the State of Michigan, Attorney General.
11-24-81	Notice of Non-Jury Trial issued for 12-22-81 for the case of the National Chlorinated Chemical Products Company, Inc. and J. Rooney vs. the City of Kalamazoo and the State of Michigan by the circuit court for the county of Kalamazoo.

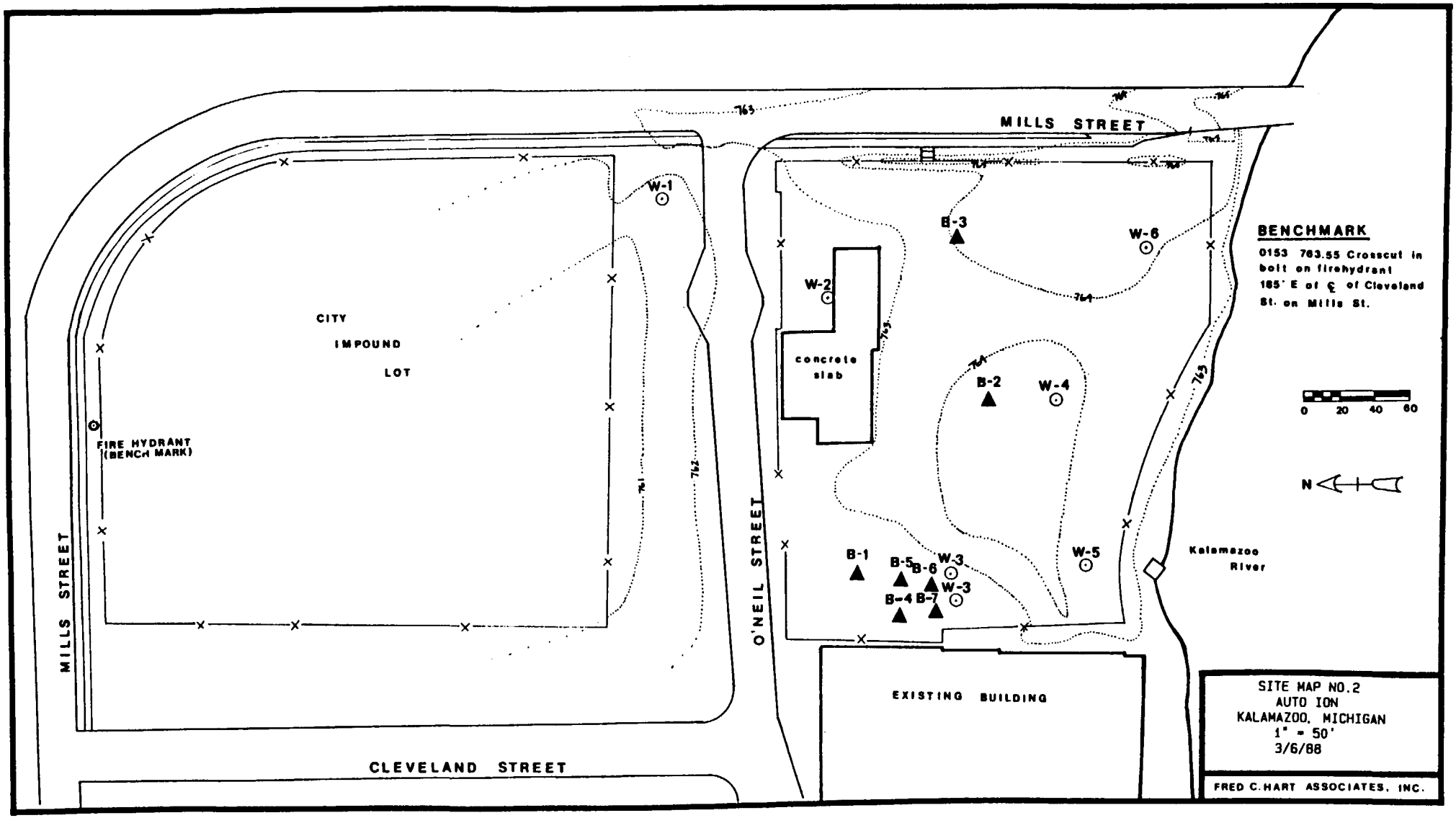
12-03-81	J. Fitzgerald (Circuit Judge, County of Kalamazoo) issues a Stipulation and Consent Order for Termination of Electrical Service at 74 Mills Street, Kalamazoo.
12-03-81	L. Newmeyer (Assistant City Attorney, City of Kalamazoo) forwards a copy of the Order Continuing and Expanding Restraining Order to E. Valentine (Attorney, State of Michigan).
12-09-81	M. Schaefer (State of Illinois) notifies J. Shauver (WRC) that the records of the state do not disclose a corporation, either domestic or foreign, entitled National Chlorinated Chemical Products Company Inc., as having been incorporated or licensed to transact business in the State of Illinois at any time.
12-10-81	C. Etter (Attorney, Auto Ion) forwards copies of the following documents to E. Valentine (Attorney, State of Michigan) and L. Newmeyer (Assistant City Attorney, City of Kalamazoo) pertaining to property stored at 74 Mills Street, in Kalamazoo: Affidavit of Ownership and Request for Court Permission to Remove Personal Property, signed by Lyle Youells, 11-24-81; Attested copy of Ex-Parte Order Permitting Removal of Personal Property of Lyle Youells, signed by J. Fitzgerald (Circuit Judge), 11-24-81; Affidavit of Ownership and Request for Court Permission to Remove Personal Property, signed by John Pugno, 11-25-81; Attested copy of Ex-Parte Order Permitting Removal of Personal Property of John Pugno, signed by J. Fitzgerald (Circuit Judge), 11-30-81.
12-11-81	E. Valentine (Attorney, State of Michigan) files an Appearance together with Proof of Service with the Kalamazoo County Circuit Court.
12-14-81	E. Valentine (Attorney, State of Michigan) files a "Reply and Petition to Realign Plaintiff State of Michigan" as Defendent along with Proof of Service with the Kalamazoo County Circuit Court.
12-14-81	C. Etter (Attorney, Auto Ion) forwards copies of an Affidavit of Ownership and Request for Court Permission to Remove Personal Property from 74 Mills Street along with an additional Affidavit signed by John Crane on 12-4-81.

12-15-81	C. Etter (Attorney, Auto Ion) files a Notice of Hearing and Proof of Service along with copies of an Affidavit of Ownership and Request for Court Permission to Remove Personal property and Additional Affidavit regarding John Crane with the Kalamazoo County Circuit Court.
12-16-81	C. Etter (Attorney, Auto Ion) files an Amended Notice of Hearing and Proof of Service with the Kalamazoo County Circuit Court.
12-28-81	L. Newmeyer (Assistant City Attorney, City of Kalamazoo) forwards a proposed Order Dismissing Case in regards to Auto Ion to E. Valentine (Attorney, State of Michigan).
2-02-81	J. Bails (MDNR) informs R. Holmes (MDNR) of fencing installed around Auto Ion property since the state acquired the property due to tax reversion.
2-04-81	J. Shauver (WRC) submits letter to E. Valentine (Attorney, State of Michigan) regarding bills for equipment stored at 74 Mills Street, Kalamazoo.
2-10-82	E. Valentine (Attorney, State of Michigan) requests R. Prins, Attorney (Lands, Lakes & Leases Division, LLL) to assume representation of the Environmental Protection Division (EPD) where J. Rooney and Auto Ion property is concerned.
2-18-82	J. Shauver (WRC) responds to John R. Crane concerning a bill Crane submitted to the State for equipment locked at Auto-Ion.
2-19-82	T. Grady (LLL) notifies S. Freeman (EPD) that LLL has not been provided sufficient information to warrent LLL assuming responsibility for the National Chlorinated Chemical Products Co..
2-24-82	R. Holmes (Lands Division, LD) informs J. Bails, Environmental Enforcement Division (EED) of specifics of the foreclosure of the property at 74 Mills Street.

2-24-82	S. Freeman (EPD) notifies T. Grady (LLL) of the status of the 74 Mill Street property. The personal property on site has not been released to either J. Rooney or to J. Crane, the person most recently claiming ownership. EPD has not planned any environmental enforcement action against Rooney, or anyone else, for clean-up of the site.
7-07-82	J. Shauver (WRC) informs E. Valentine (Attorney, State of Michigan) of current status of Auto Ion. The basement at the site is currently holding contaminated water and the site is relatively secure from an access standpoint. The site does not rank high enough to qualify for CERCLA funding.
7-19-82	Hazardous Ranking System worksheets prepared by R. Hix (Ecology and Environment).
8-23-82	J. Shauver (WRC) suggests to L. Holmes (LD) that repairs be made to the fence at 74 Mills Street since vandalism has occurred at the site as per site visit by Gene Hall on 8-5-82.
2-16-83	Emergency Action Plan submitted by M. Hessling (Weston SPER) to R. Bowden after site inspection 1-11-83 by MDNR and USEPA staff and a Weston SPER Technical Assistance Team. Results of chemical samples collected 1-6-82 were cited in the report.
8-2-83	Site visit by staff from CH2M Hill, GMC Associates, Inc., U.S.EPA, and MDNR.

APPENDIX III

Boring & Well Logs


MILLS STREET
CLEVELAND STREET
O'NEIL STREET
CITY
IMPOUND
LOT
FIRE HYDRANT
(BENCH MARK)
concrete
slab
EXISTING BUILDING
Kalamazoo
River
W-1
W-2
W-3
W-4
W-5
W-6
B-1
B-2
B-3
B-4
B-5
B-6
B-7
763
764
765
762
761
BENCHMARK
0153 763.55 Crosscut in
bolt on firehydrant
185' E of ℄ of Cleveland
St. on Mills St.
0 20 40 60
N
SITE MAP NO.2
AUTO ION
KALAMAZOO, MICHIGAN
1" = 50'
3/6/88
FRED C.HART ASSOCIATES, INC.

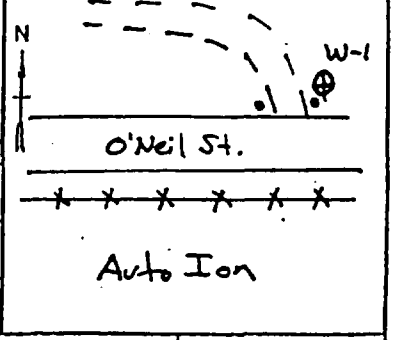
APPENDIX II

Chronology of Significant Events

FRED C. HART ASSOCIATES, INC.

TEST BORING LOG

BORING/WELL LOCATION SKETCH MAP



BORING NO.: W-1

PROJECT NO./NAME: Auto-Ion 00083-00 00001-01

LOCATION: Kalamazoo MI

DRILLING CONTRACTOR/DRILLER: Fox Drilling Co. / ~~Tom~~ Rob Crachy

HART GEOLOGIST/OFFICE: Harold Moritz / Meriden

DRILLING EQUIPMENT/METHOD: CME 75 3¾ x 7¾ HSA

SIZE/TYPE OF BIT: 8" carbide fingers

SAMPLING METHOD: 2' Split Spoon

START/FINISH DATE: 10/7-10/7/87

WELL INSTALLED? YES ☒ NO ☐

CASING MAT./DIA.: 2" Stainless Steel

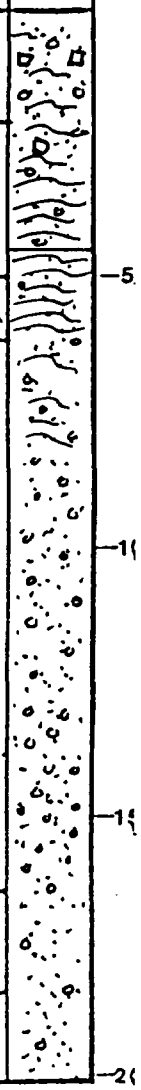
SCREEN: TYPE Mill Slot MAT. St. Steel LENGTH 10.6' DIA. 2" SLOT SIZE 10

ELEVATION OF: (FT. ABOVE M.S.L.) GROUND SURFACE TOP OF WELL CASING TOP & BOTTOM SCREEN GW SURFACE DATE

REMARKS:

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.
	SS1	1.5	4/4 4/10	SAND f-m, trace silt, trace f gravel, trace brick frags, lt brown-black, damp		cement
	SS2	1.2	11/11 6/9	SAND f-c, little silt, trace f-m gravel, trace brick + coal frags, dk brown-black, damp	FILL	bentonite
				Top 0.6 SAND m-c, ~~some silt~~, tr. f gr., lt ~~yellow~~ brown		
5	SS3	1.1	6/4 7/9	Bot 0.6 SAND f, some silt, trace f gravel, light yellow brown, moist	Native SANDS	sand
					▽ 7.5' 10/7/87	Screen and sand pack
10	SS4	0.8	6/29 54/60	SAND m-c, little f gravel, lt gray-brown c gravel lodged in nose, saturated	Running sand conditions	
15	SS5	2.0	7/6 4/5	SAND m-c, some f gravel, lt brown, saturated		
	SS6	0.5	39/43	SAND f-m, trace c sand to c gravel, lt brown, sat.	EOB 20'	sand collapse

GRAPHIC LITHO LOG



Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

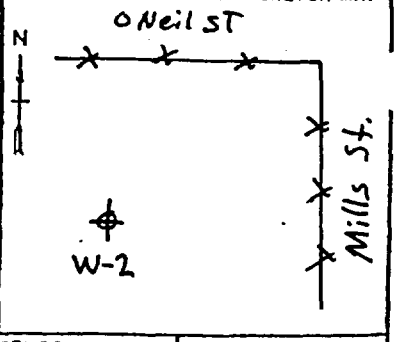
Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

HART

FRED C. HART ASSOCIATES, INC.

TEST BORING LOG

BORING/WELL LOCATION SKETCH MAP



BORING NO.	W-2
PROJECT NO./NAME	Auto Ion 00083-00 00001-01
LOCATION	Kalamazoo MI
DRILLING CONTRACTOR/DRILLER	Fox Drilling Inc / Rob Crachy
HART GEOLOGIST/OFFICE	Harold Moritz / Meriden
DRILLING EQUIPMENT/METHOD	CME 75 3 3/4 x 7 3/4 HSA
SIZE/TYPE OF BIT	7 3/4" carbide fingers
SAMPLING METHOD	2' Split Spoon
START/FINISH DATE	10/23-10/23/97
WELL INSTALLED?	YES ☒ NO ☐
CASING MAT./DIA.	2" Stainless Steel
SCREEN:	TYPE Mill Slot MAT. St. Steel LENGTH 10.7' DIA. 2" SLOT SIZE 10
ELEVATION OF: (FT. ABOVE M.S.L.)	GROUND SURFACE / TOP OF WELL CASING / TOP & BOTTOM SCREEN / GW SURFACE / DATE
REMARKS:	

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	LOG OF TEST BORING: DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
	SS1	1.7	8/10 11/13	SAND f-c, some silt, trace f-m gravel, brick, cinder frags, dk brown-black, moist	FILL brick at 2-2.5'	cement	
	SS2	0.9	8/6 7/9	SAND f, little silt, brown, moist	sand	bentonite	
5	SS3	0.6	5/8 7/3	SAND f-m, trace silt, trace csand to f gravel brown, damp		sand	5
10	SS4	1.8	12/32 50/50	SAND f-c, trace f gravel, trace silt, lt brown wet	running sand conditions	sand & screen	11
15							15
	SS5	0.3	50/16 20/27	SAND f-c, little f gravel, trace silt lt brown, saturated			
							20

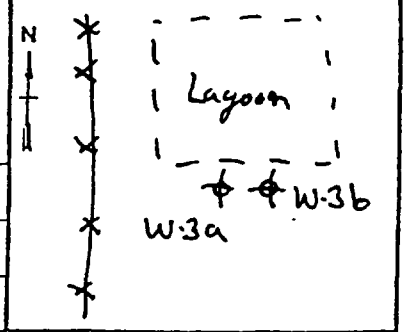
Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

FRED C. HART ASSOCIATES, INC.

TEST BORING LOG

BORING/WELL LOCATION SKETCH MAP



BORING NO.	W-3a and b
PROJECT NO./NAME	Auto Ion 00083-00 00001-01
LOCATION	Kalamazoo, MI
DRILLING CONTRACTOR/DRILLER	Fox Drilling Inc / Rob Crachy
HART GEOLOGIST/OFFICE	Harold Moritz / Meriden
DRILLING EQUIPMENT/METHOD	CME 75 see remarks
SIZE/TYPE OF BIT	see remarks
SAMPLING METHOD	2' split spoon
START/FINISH DATE	6/21 - 6/22/87
WELL INSTALLED?	YES ☒ NO ☐
CASING MAT./DIA.	2" stainless steel
SCREEN	TYPE Mill Slot MAT. St. Steel LENGTH 10.7' DIA. 2" SLOT SIZE 10
ELEVATION OF (FT. ABOVE M.S.L.)	GROUND SURFACE / TOP OF WELL CASING / TOP & BOTTOM SCREEN / GW SURFACE / DATE

REMARKS: W-3a 0'-19' 4" water rotary casing / W-3b 8" casing 0'-8', 6" casing 0'-19.5', 4" casing 0'-50'

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	LOG OF TEST BORING — DESCRIPTION	REMARKS	WELL CONST. a	WELL CONST. b	GRAPHIC LITHO LOG
	SS1	1.0	3/ 50-6"	SAND f-c, little silt, little f-c gravel, brick, coal cinder, wood fragments, dk brown-black, moist	FILL	cement	cement	
	SS2	1.0	6/8 12/12	same as SS1 moist-wet		bentonite		
5	SS3	2.0	27/21 19/13	SAND f-m, little f-c gravel and artificial debris little silt, dk brown-black, moist, petroleum odor		sand		5
	SS4	0.9	13/30 50-6"	SAND f-c, trace f gravel, trace silt, black wet, petroleum odor	Sand ~8' W-3a	sand + screen	Volclay bentonite grout	
10					sand wash			11
15	SS5	2.0	12/18 30/50	SAND f-c, little f-m gravel, trace silt, dk brown-black, petroleum odor, saturated				15
	SS6	0.7	10/40 40	SILT, some clay, trace f sand, gray, damp	Clayey SILT W-3a eob 19'			21

Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

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BORING NO. W-3a and W-3b

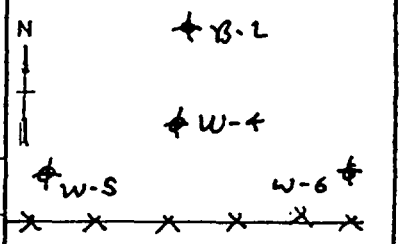
LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST. W-3a W-3b	GRAPHIC LITHO LOG
					clayey SILT	Volclay bentonite	
25	SS7	1.0	21/29 42	SAND f-m, trace silt, trace clay at top lt brown-gray, saturated		sand	25
				sand wash			
30	SS8	0.8	37/ 100-7"	same as SS7 except no clay			30
				sand, trace gravel wash			
35	SS9	0.7	31/ 100-7"	same as SS7 except no clay			35
				sand wash		sand + screen	
40	SS10	0.9	29/ 100-7"	same as SS8			40
				sand wash			
45	SS11	0.9	38/42 50	same as SS8			45
				sand wash		collapse	
50	SS12	0.6	100-7"	same as SS8 eob W-3b 50.5 ft			50

FRED C. HART ASSOCIATES, INC.

TEST BORING LOG

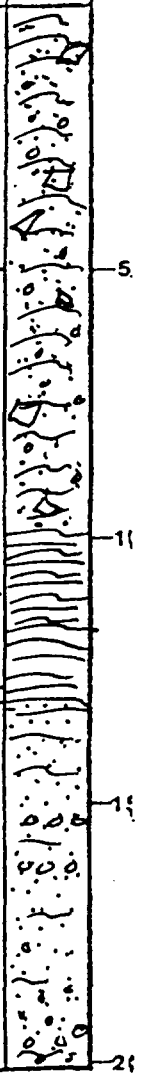
BORING/WELL LOCATION SKETCH MAP



BORING NO.	W-4
PROJECT NO./NAME	Auto-Ion 00083-00 00001-01
LOCATION	Kalamazoo, MI
DRILLING CONTRACTOR/DRILLER	Fox Drilling Co. / Rob Cachy
HART GEOLOGIST/OFFICE	Harold Moritz / Meriden
DRILLING EQUIPMENT/METHOD	ME75 3¾" x 7¾" HSA
SIZE/TYPE OF BIT	7¾" carbide fingers
SAMPLING METHOD	2' Split Spoon
START/FINISH DATE	10/15-10/15/87
WELL INSTALLED?	YES ☒ NO ☐
CASING MAT./DIA.	2" Stainless Steel
SCREEN:	TYPE Mill Slot MAT. Stain. Steel LENGTH 10.7' DIA. 2" SLOT SIZE 10
ELEVATION OF: (FT. ABOVE M.S.L.)	GROUND SURFACE / TOP OF WELL CASING / TOP & BOTTOM SCREEN / GW SURFACE / DATE
REMARKS:	

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.
	SS1	1.8	10/14 23/17	SAND f-c, some silt, trace to little f-c gravel, cinders, coal, brick frags, black	FILL	cement
	SS2	1.7	12/14 15/8	same as SS1, damp-moist		
5	SS3	1.1	3/6 3/3	same as SS1, moist		bentonite
-10	SS4	0.7	8/9 8/3	SAND f-m, little silt, trace black wood frag at base, sand is dk brown at top, green + dk blue at base, wet	perched water	
				SILT, some clay, trace peat + muck, black, moist	Organic rich SILT	sand
	SS5	2.0	1/1 1/3	grading into SAND F, some silt, black, wet		
15				gravel lenses	SAND + GRAVEL some silt layers running sand	sand + screen
	SS6	1.1	24/6	Top 0.9 SAND f-c + GRAVEL f-c, little silt, gray-brown, wet		

GRAPHIC LITHO LOG



Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

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FRED C. HART ASSOCIATES, INC.

BORING NO. W-4

LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
	SS6	1.1	5/6	Bot 0.2 SILT, tr f sand to f gravel, gray moist	SAND + GRAVEL some silt lenses	Screen	
	SS7	1.6	12/14 17/20	SAND f-c + GRAVEL f-c, some silt, gray-brown, sat.	running sand		
25				eob 24 ft			

FRED C. HART ASSOCIATES, INC.

TEST BORING LOG

BORING NO. W-5

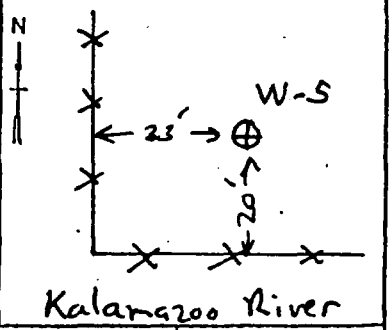
PROJECT NO./NAME: Auto Ion 00083-00 00001-01

LOCATION: Kalamazoo, MI

DRILLING CONTRACTOR/DRILLER: Fox Drilling Co. / Rob Crachy

HART GEOLOGIST/OFFICE: Harold Moritz / Meriden

BORING/WELL LOCATION SKETCH MAP



DRILLING EQUIPMENT/METHOD	SIZE/TYPE OF BIT	SAMPLING METHOD	START/FINISH DATE
CME75 3¾ x 7¾ HSA	7¾" carbide fingers	2' split spoon	10/13 - 10/14/87

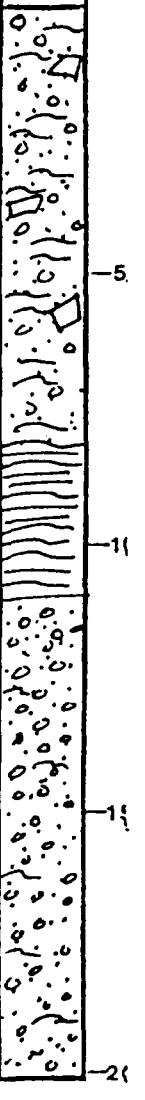
WELL INSTALLED? YES ☒ NO ☐ | CASING MAT./DIA.: 2" Stainless Steel | SCREEN: TYPE Mill Slot MAT. Stainless St. LENGTH 10.7 DIA. 2" SLOT SIZE 10

ELEVATION OF: (FT. ABOVE M.S.L.) GROUND SURFACE | TOP OF WELL CASING | TOP & BOTTOM SCREEN | GW SURFACE | DATE

REMARKS:

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	LOG OF TEST BORING — DESCRIPTION	REMARKS	WELL CONST.
	SS1	1.7	9/16 14/10	SAND f-c, little f-c gravel, brick frags, wood frags, little silt, dk brown, black tan, damp	FILL	cement
	SS2	0.8	9/6 10/30	same as SS1		
5	SS3	0	2/55 4/2	no recovery, fill cuttings		bentonite
	SS4	0.7	2/4 8/12	SAND f-c, little f-m gravel, little silt black - lt brown, wet	perched water	
	SS5	1.3	2/2 3/3	SILT, some clay, trace peat, black moist	Clayey Silt ▽ 9.5 b.g. 10/14	
10						sand
15	SS6	1.5	6/24 25/16	SAND f-c and GRAVEL f-c, tr silt gray-brown, saturated	SAND + GRAVEL; Running Sand	screen + sand

GRAPHIC LITHO LOG



Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

HART

FRED C. HART ASSOCIATES, INC.

BORING NO. W-5

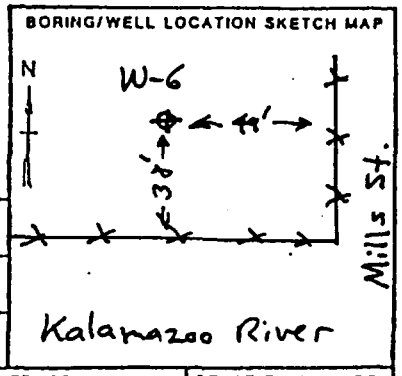
LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
					running sand	screen + sand	
25	S57	0.8	50/100-3"	GRAVEL f, little f-c sand, gray brown saturated		sand	
				eob 26 ft			
30							30

FRED C. HART ASSOCIATES, INC.

TEST BORING LOG

BORING/WELL LOCATION SKETCH MAP



BORING NO. W-6

PROJECT NO./NAME: Auto-Ion 00003-00 00001-01

LOCATION: Kalamazoo, MI

DRILLING CONTRACTOR/DRILLER: Fox Drilling Co. / Rob Crachy

HART GEOLOGIST/OFFICE: Harold Moritz / Meriden

DRILLING EQUIPMENT/METHOD: CME75 3¾"x7¾" HSA

SIZE/TYPE OF BIT: 7¾" carbide fingers

SAMPLING METHOD: 2' Split Spoon

START/FINISH DATE: 10/14-10/14/87

WELL INSTALLED? YES ☒ NO ☐

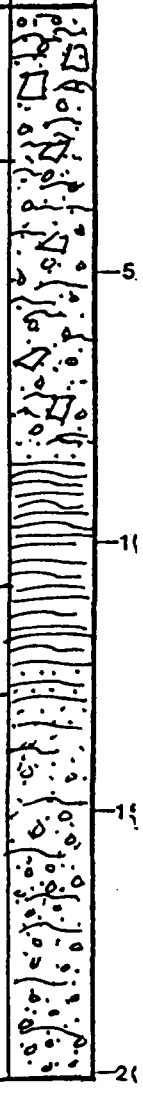
CASING MAT./DIA.: 2" Stainless Steel

SCREEN: TYPE Mill Slot MAT. Stainless St. LENGTH 10.7' DIA. 2" SLOT SIZE 10

ELEVATION OF: (FT. ABOVE M.S.L.) GROUND SURFACE TOP OF WELL CASING TOP & BOTTOM SCREEN GW SURFACE DATE

REMARKS:

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	LOG OF TEST BORING: DESCRIPTION	REMARKS	WELL CONST.
	SS1	0.6	9/8 14/23	SAND f-c, some f-c gravel, coal, brick frags cinders, little silt, black, dry	FILL	cement
	SS2	1.8	12/12 9/8	same as SS1 - damp		
5	SS3	0.9	6/5 1/1	same as SS1 - moist		bentonite
	SS4	0.6	1/1 1/3	same as SS1 - moist, wet at base	perched water	
10	SS5	1.2	4/4 4/3	SILT, some clay, trace muck + peat, black moist	Organic rich SILT	
	SS6	1.4	2/2 2/2	Top ~0.8 same as SS5 - grading into Bot ~0.6 SAND f, little silt, trace m-c sand, dk grey-brown, saturated		sand
15	SS7	1.5	11/8 10/17	SAND f-c and GRAVEL f-c, little silt, light gray-brown, saturated	SAND + GRAVEL Running sand	screen + sand
	SS8	1.5	12/15	same as SS7		



Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

HART

FRED C. HART ASSOCIATES, INC.

BORING NO. W-6

LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
	SS8	1.5	11/20	SAND f-c and GRAVEL f-c, little silt, light gray-brown, saturated	SAND + GRAVEL running sand	Screen	
25				eob 24 ft			

FRED C. HART ASSOCIATES, INC.

TEST BORING LOG

BORING NO. B-1

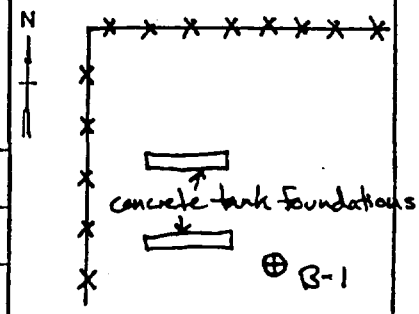
PROJECT NO./NAME: Auto-Ion 00033-00 00001-01

LOCATION: Kalamazoo, MI

DRILLING CONTRACTOR/DRILLER: Fox Drilling Co. / Rob Crachy

HART GEOLOGIST/OFFICE: Harold Moritz / Meriden

BORING/WELL LOCATION SKETCH MAP



DRILLING EQUIPMENT/METHOD	SIZE/TYPE OF BIT	SAMPLING METHOD	START/FINISH DATE
CME 75 Mud Rotary	4" roller bit	2' Split Spoon	10/8-10/20/87

WELL INSTALLED? YES ☐ NO ☒ | CASING MAT./DIA. | SCREEN: TYPE | MAT. | LENGTH | DIA. | SLOT SIZE

ELEVATION OF: (FT. ABOVE M.S.L.) GROUND SURFACE | TOP OF WELL CASING | TOP & BOTTOM SCREEN | GW SURFACE | DATE

REMARKS: Pilothole w/3¼" OD solid auger to 8', 4" casing after to 8'

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	LOG OF TEST BORING: DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
	SS1	2.0	14/43 50/60	SAND f-c, some silt, tr f-c gr., tr coal, brick, concrete, wood frags, black-dk brown	FILL		
	SS2	2.0	20/18 13/19	SAND f-m, tr silt, tr f-m gravel, brown, damp	Native SANDS		
5	SS3	0.6	13/15 16/20	SAND f-c, little silt, tr f-c gravel, brown damp			
	SS4	0.5	14/17 18/22	SAND f-c, little silt, top ½ brown bot. ½ black wet	▽ ~8' sand + gravel wash		
10							
	SS5	0.5	13/18 43	SAND f-c, little f-c gravel, tr silt, lt brown saturated			
15							
					SILT + CLAY		
	SS6	1.3	13/39 46	SILT + CLAY, tr f sand to f gravel, gray damp			

Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

HART

FRED C. HART ASSOCIATES, INC.

BORING NO. B-1

LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
					SILT + CLAY		
	SS7	1.5	22/25 33	SILT + CLAY tr f sand to f gravel gray, damp			
25	SS8	1.0	20/40 48	Interlayered SAND f + SILT with CLAY + SILT both gray, moist + saturated			
					SAND		
30	SS9	1.1	23/23 23	SAND f-m, little silt, trace c sand to f gravel lt gray-brown, saturated			
35	SS10	1.5		SAND f-m, trace silt, trace c sand to f gravel gray-brown, saturated			
				sand, minor gravel wash			
40	SS11	1.1	29/42 41	same as SS10, several ~2cm thick silt lenses			
				sand, little gravel wash			
45	SS12	0.7	57/100-6"	same as SS10			
				sand, trace gravel wash			
50	SS13	1.0	42/100-6"	same as SS10			

HART

FRED C. HART ASSOCIATES, INC.

BORING NO. B-1

LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
55				sand wash			55
	SS14	0.5	100-6"	SAND f-m, trace silt, lt gray-brown, sat.			
60							60
65				sand, trace gravel wash			65
	SS15	0.5	100-6"	same as SS14			
70							70
75				sand, trace f gravel wash			75
	SS16	0.9	60/100-4"	same as SS14			
80							80

HART

FRED C. HART ASSOCIATES, INC.

BORING NO. B-1

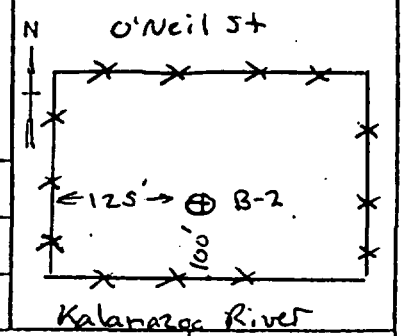
LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
				sand wash			
85							8
	SS17	0.5	100-6"	SAND f-m, trace silt, lt gray-brown, sat.			
90							90
				sand wash			
95							9
					nose of spoon lost in hole		
	SS18	0	100-6"	no recovery			
100							100
				sand, trace f-m gravel wash			
	SS19	0.3	100-6"	SAND f-m, little c sand to f gravel lt gray-brown, saturated			
105							10
				sand, f-m gravel wash	rough drilling after 107', gray clay cuttings, oil on waste mud at 109'		
				CLAY, gray, damp, compact (weathered shale)	Bedrock-Shale		
110	SS20	0.7	100-7"				110
				eob 110 ft ↑			

FRED C. HART ASSOCIATES, INC.

TEST BORING LOG

BORING/WELL LOCATION SKETCH MAP



BORING NO.	B-2
PROJECT NO./NAME	Auto-Ion 00083-00 00001-01
LOCATION	Kalamazoo MI
DRILLING CONTRACTOR/DRILLER	Fox Drilling Co / Rob Cachya
HART GEOLOGIST/OFFICE	Harold Moritz / Meriden
DRILLING EQUIPMENT/METHOD	CME 75 Mud Rotary
SIZE/TYPE OF BIT	2 1/2" roller bit
SAMPLING METHOD	2" Split Spoon
START/FINISH DATE	10/12-10/13/87
WELL INSTALLED? YES ☐ NO ☒	
CASING MAT./DIA.	
SCREEN: TYPE / MAT. / LENGTH / DIA. / SLOT SIZE	
ELEVATION OF: (FT. ABOVE M.S.L.) GROUND SURFACE / TOP OF WELL CASING / TOP & BOTTOM SCREEN / GW SURFACE / DATE	

REMARKS: Pilot hole w/ 3 1/2" OD Augers to 14 ft, 3" casing to 14.5 ft after

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	LOG OF TEST BORING: DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
	SS1	1.5 ~~0.2~~	22/25 56-3	SAND f-c, some silt, little f-c gravel and artificial debris, brown-black, moist to dry	Fill very rough drilling, brick and cinder block frags in cuttings		
-5							-5
	SS2	0	100-3"	no recovery.	breakthrough at 8 1/2 feet		
-10	SS3	0.7	1/1 1/1	CLAY and MUCK, trace peat, black, moist	CLAY gray-black silty clay cuttings		-10
	SS4	0	1/2 1/2				
-15	SS5	0.7	7/13 14/12	SAND f-c, little f-m gravel, trace silt, gray-brown, saturated	SAND		-15
	SS6	0.8	36/25 30	SILT, trace f sand, gray, saturated	SILT		-20

Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

HART

FRED C. HART ASSOCIATES, INC.

BORING NO. B-2

LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
					SILT		
25	SS7	0.9	21/29 30	SAND m-c, little f gravel, trace silt gray-brown, saturated	SAND		
30	SS8	0.9	41/40 42	SAND f-c, little f-r gravel, trace silt, gray-brown, saturated			
				eob 30 ft			

HART

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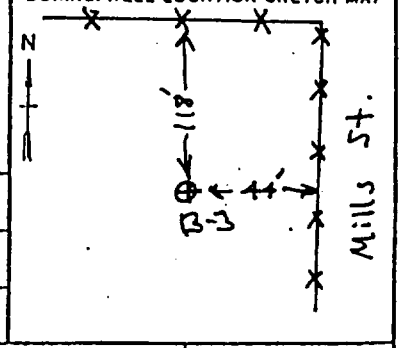
TEST BORING LOG

BORING/WELL LOCATION SKETCH MAP



BORING NO. B-3

PROJECT NO./NAME: Auto-Ion 00083-00 00001-01

LOCATION: Kalamazoo, MI

DRILLING CONTRACTOR/DRILLER: Fox Drilling Co. / Rob Crachy

HART GEOLOGIST/OFFICE: Harold Moritz / Meriden

DRILLING EQUIPMENT/METHOD	SIZE/TYPE OF BIT	SAMPLING METHOD	START/FINISH DATE
CME75 Mud Rotary	4" Roller bit	2' Split Spoon	10/8 - 10/12/87

WELL INSTALLED? YES ☐ NO ☒ | CASING MAT./DIA. | SCREEN: TYPE | MAT. | LENGTH | DIA. | SLOT SIZE

ELEVATION OF: (FT. ABOVE M.S.L.) GROUND SURFACE | TOP OF WELL CASING | TOP & BOTTOM SCREEN | GW SURFACE | DATE

REMARKS: Pilot hole w/ 3¼" OD Solid Augers to 8', 4" casing after to 8½'

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	LOG OF TEST BORING: DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
	SS1	1.6	15/40 42/32	SAND f-c, some silt, little f-c gravel, trace artificial debris, black, damp			
	SS2	0.7	12/12 20/24	same as SS1			
-5	SS3	0.9	12/19 20/29	Top 0.5 - same as SS1 Bot 0.4 SAND f-m, some silt, trace c sand to f gravel, brown, damp	Fill		-5
	SS4	1.7	12/16 21/30	Top 0.4 SAND f-m, brown, moist Bot 1.3 CLAY and PEAT, little silt, trace f-c sand, black, rotten odor, damp			
-10	SS5	1.2	14/19 18/22	Top 0.6 CLAY, some peat, trace silt, black moist, rotten odor Bot 0.6 SAND f-c, little silt, tr f-m gravel, gray to brown, moist	Manure Layer Native sands		-11
-15	SS6	1.0	24/24 25	SAND f-m, trace c sand to m gravel, trace silt, saturated, light brown			-15
				sand + gravel cuttings			
	SS7	0	28/28 27	gravel wash lodged in nose			-20

Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

HART

FRED C. HART ASSOCIATES, INC.

BORING NO. B-3

LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
				sand + gravel wash			
25	SS 8	0.8	18/25 43	SAND m, tr f and c sand, tr. silt lt gray-brown, saturated			
				sand + gravel wash			
30	SS9	1.5	35/40 73	SAND f-m, tr silt, lt gray-brown, sat.			
				sand, minor gravel wash			
35	SS10	1.0	35/ 100-1"	same as SS9			
				sand wash			
40	SS11	1.3	40/56 100	same as SS9			
				sand wash			
45	SS12	1.2	36/42 51	same as SS9			
				sand wash			
50	SS13	1.5	35/50 65	SAND f-m, trace f gravel, 0.1 clay lens sat, lt gray-brown			

FRED C. HART ASSOCIATES, INC.

BORING NO. B-3

LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
55				sand, trace gravel wash			55
60	SS14	1.0	15/21 20	SAND f-m, trace silt, lt-gray-brown saturated			60
65				sand wash			65
70	SS15	1.5	52/80 100	same as SS14			70
75				sand wash			75
80	SS16	1.0	65/100	same as SS14			80

HART

FRED C. HART ASSOCIATES, INC.

BORING NO. B-3

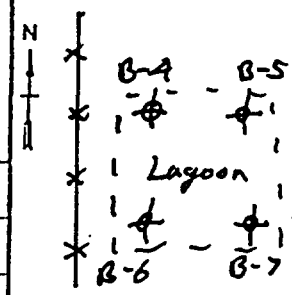
LOG OF TEST BORING

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
				sand, little gravel wash			
85					gravel lenses rough drilling 83-87		
	SS17	0.5	150-6"	SAND f-m, trace silt, smear of gray clay at base, ltgray-brown, sat			
90							
				sand, gravel wash			
95							
					gray wcesh ~97 trough drilling		
	SS18	0.7	120/150	CLAY, dk grey, dry, very compact almost shaly			
100					Shale Bedrock		
	SS19	0.5	150-5"	SHALE, dkgrey, hard, fissile			
105				eob 105 ft			

FRED C. HART ASSOCIATES, INC.

TEST BORING LOG

BORING/WELL LOCATION SKETCH MAP



BORING NO.	B-4
PROJECT NO./NAME	Auto-Ion 00083-00 00001-01
LOCATION	Kalamazoo, MI
DRILLING CONTRACTOR/DRILLER	Fox Drilling Inc. / Rob Crachy
HART GEOLOGIST/OFFICE	Harold Moritz / Meriden
DRILLING EQUIPMENT/METHOD	CME 75 ~~4~~ 4" OD Augers
SIZE/TYPE OF BIT	4" carbide fingers
SAMPLING METHOD	2' Split Spoon
START/FINISH DATE	10/15/87
WELL INSTALLED?	YES ☐ NO ☒
CASING MAT./DIA.	
SCREEN: TYPE / MAT. / LENGTH / DIA. / SLOT SIZE	
ELEVATION OF: (FT. ABOVE M.S.L.) GROUND SURFACE / TOP OF WELL CASING / TOP & BOTTOM SCREEN / GW SURFACE / DATE	
REMARKS:	

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	LOG OF TEST BORING — DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
	SS1	1.0	5/4 4/2	SAND f-c, trace f-m gravel, trace silt brown, damp			
	SS2	1.1	3/3 2/2	same as SS1			
-5	SS3	0.7	3/1 1/2	same as SS1 except little silt			
	SS4	1.1		same as SS2 except wet, compact and orange, tan, to lt yellow brown mottled			
				eob 8 ft			
-10							
-15							

Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

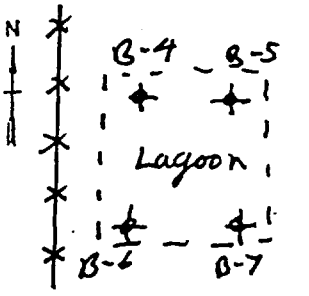
Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

HART

FRED C. HART ASSOCIATES, INC.

TEST BORING LOG

BORING/WELL LOCATION SKETCH MAP



BORING NO.	B-5
PROJECT NO./NAME	Auto-Ion 00083-00 00001-01
LOCATION	Kalamazoo, MI
DRILLING CONTRACTOR/DRILLER	Fox Drilling Inc. / Rob Crachy
HART GEOLOGIST/OFFICE	Harold Moritz / Meriden
DRILLING EQUIPMENT/METHOD	CME 75 4" solid augers
SIZE/TYPE OF BIT	4" carbide fingers
SAMPLING METHOD	2' split spoon
START/FINISH DATE	10/15/87
WELL INSTALLED?	YES ☐ NO ☒
CASING MAT./DIA.	
SCREEN: TYPE / MAT. / LENGTH / DIA. / SLOT SIZE	
ELEVATION OF: (FT. ABOVE M.S.L.) GROUND SURFACE / TOP OF WELL CASING / TOP & BOTTOM SCREEN / GW SURFACE / DATE	
REMARKS:	

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	LOG OF TEST BORING — DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
	SS1	1.2	4/9 13/20	Top 0.6 SAND f-c, little f-c gravel, tr silt, lt brown Bot 0.6 SAND f, some silt, tr m sand to f gravel dk brown, mottled, compact			
	SS2	1.3		SAND f, little silt, little m sand, brown, moist			
5	SS3	1.6		Top 1.0 SAND f-c, little f-m gravel, little silt, brown Bot 0.6 SAND f-m, trace silt, lt yellow brown			5
	SS4	0.9		SAND f-m, trace c sand to f gravel, trace silt, lt brown, moist			
				eob 8 ft			
10							10
15							15
							20

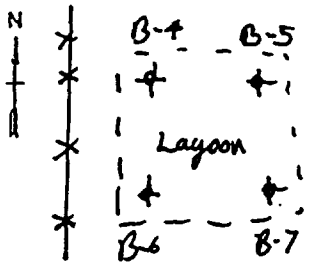
Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

FRED C. HART ASSOCIATES, INC.

TEST BORING LOG

BORING/WELL LOCATION SKETCH MAP



BORING NO.	B-6
PROJECT NO./NAME	Auto-Ion 00083-00 00001-01
LOCATION	Kalamazoo, MI
DRILLING CONTRACTOR/DRILLER	Fox Drilling Inc / Rob Crachy
HART GEOLOGIST/OFFICE	Harold Moritz / Meriden
DRILLING EQUIPMENT/METHOD	CME75 4" solid augers
SIZE/TYPE OF BIT	4" carbide fingers
SAMPLING METHOD	2' split spoon
START/FINISH DATE	10/16/87
WELL INSTALLED?	YES ☐ NO ☒
CASING MAT./DIA.	
SCREEN: TYPE / MAT. / LENGTH / DIA. / SLOT SIZE	
ELEVATION OF: (FT. ABOVE M.S.L.) GROUND SURFACE / TOP OF WELL CASING / TOP & BOTTOM SCREEN / GW SURFACE / DATE	
REMARKS:	

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	LOG OF TEST BORING — DESCRIPTION (leachate from fill)	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
	SS1	1.1		SAND f-c, some silt, little f-c gravel, brick cinder block, coal frags, dk brown-black tan, damp			
	SS2	1.2		Top 0.5 SAND f-m, trace c sand to f gravel, trace silt, lt yellow gray Bot 0.7 SAND f-m, little silt, trace c sand to f gravel + coal frags, mottled red-brown, tan moist			
5	SS3	1.4		SAND f-c, little silt, trace f-m gravel, dk brown to black, moist, petroleum odor			5
	SS4	1.8		same as SS3, dk grey-brown			
				eob 8 ft			
10							10
15							15
							20

Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

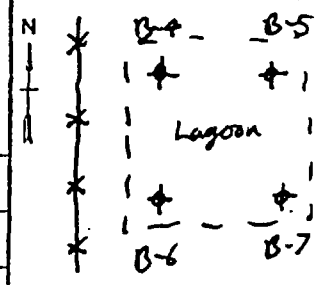
Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

HART

FRED C. HART ASSOCIATES, INC.

TEST BORING LOG

BORING/WELL LOCATION SKETCH MAP



BORING NO.	B-7
PROJECT NO./NAME	Auto Ion 00083-00 00001-01
LOCATION	Kalamazoo, MI
DRILLING CONTRACTOR/DRILLER	Fox Drilling Inc. / Rob Crachy
HART GEOLOGIST/OFFICE	Harold Moritz / Meriden
DRILLING EQUIPMENT/METHOD	CME75 4" solid augers
SIZE/TYPE OF BIT	4" carbide fingers
SAMPLING METHOD	2' split spoon
START/FINISH DATE	10/15/87
WELL INSTALLED?	YES ☐ NO ☒
CASING MAT./DIA.	
SCREEN: TYPE / MAT. / LENGTH / DIA. / SLOT SIZE	
ELEVATION OF: (FT. ABOVE M.S.L.) GROUND SURFACE / TOP OF WELL CASING / TOP & BOTTOM SCREEN / GW SURFACE / DATE	
REMARKS:	

DEPTH (FT)	SAMPLE NO. AND TYPE	RECOVERY (FT)	PENETRATION RESISTANCE BLOWS/FT	LOG OF TEST BORING: DESCRIPTION	REMARKS	WELL CONST.	GRAPHIC LITHO LOG
	SS1	1.1		SAND f-c, little f-m gravel, trace silt, trace ~~coal frags~~, damp, brown			
	SS2	1.3		Same as SS1 but with trace blue-green colored gravel, moist to wet			
5	SS3	2.0		SAND f-m, little silt, trace c sand to f gravel, black, moist, petroleum odor			
	SS4	1.7		same as SS3, wet			
				eob 8 ft			
10							
15							

Proportions Used: Trace = 0-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

Sampling Abbreviations: SS = Split Spoon, ST = Shelby Tube, CSC = Continuous Soil Core

APPENDIX IV

Grain Size Distribution Analysis

LABORATORY TEST RESULTS

GRAIN SIZE ANALYSIS

AUTO ION PROJECT

PROJECT NUMBER 00083-00-00001-01

Prepared For:

Hart Environmental Management, Inc.
3000 Town Center, Suite 315
Southfield , Michigan

Performed By:

J&L Testing Company, Inc.
938 South Central Avenue
Canonsburg, Pennsylvania

February 5, 1988

ENGINEER Rob McLeod

DATE ASSIGNED

DATE DUE ASAP

JOB No. 88C235-01

JOB NAME Hart Environmental Management Auto Ion Project

DATE REC. 1-27-88

DATE CMP. 2-5-88

REC. BY RAL

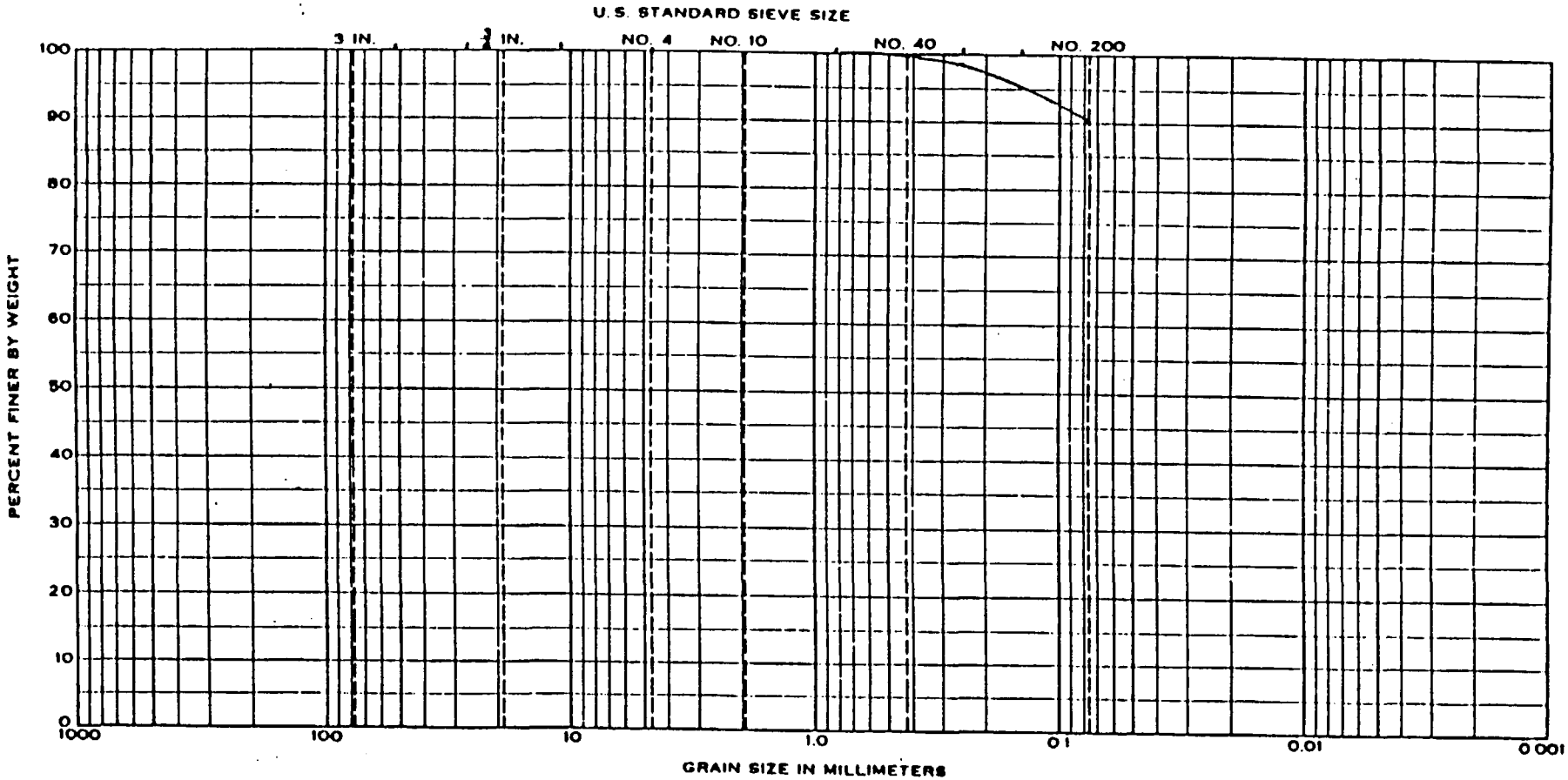
Page No. 1

SUMMARY OF LABORATORY TEST RESULTS

BORING and SAMPLE No	DEPTH feet	CLASSIFICATION	PERM k cm/sec	NATURAL WATER CONTENT (%)	ATTERBERG LIMITS		UNCON. COMPRESS		UNIT DRY WGT (pcf)	SPECIFIC GRAVITY	GRAIN SIZE		OPT MOIST	CONSOLID	TRIAXIAL			
					LIQUID LIMIT	PLASTIC LIMIT	STRESS (tsf)	STRAIN (%)			SIEVE	HYDR			UU	CIU	CELL PRESSURE (psi)	BACK PRESSURE (psi)
B-2 553	Unknown	Silt/Clay									*							
B-3 554	Unknown	Silty C-F SAND w/Gravel									*							
W-5 555	Unknown	Silt/Clay									*							
B-1 551	Unknown	C-F SAND AND GRAVEL									*							
W-2 551	Unknown	F-C Silty SAND									*							
B-3 551	Unknown	Silty C-F SAND w/Some F Gra									*							
B-1 552	Unknown	Silty C-F SAND w/Sm Gravel									*							
B-1 553	Unknown	Sandy GRAVEL									*							
W-2 553	Unknown	F-C SAND and GRAVEL									*							
B-1 556	Unknown	F-M Sandy SILT									*							
B-2 556	Unknown	Sandy SILT/CLAY									*							
B-1 557	Unknwon	Sandy SILT/CLAY									*							
W3-B	5510	Fine SAND									*							
W3-B	5511	F-M SAND									*							
W3-B	5512	Fine SAND									*							

X TEST COMP and CHECKED

● TEST IN PROGRESS



COBBLES	GRAVEL		SAND			SILT OR CLAY
	Coarse	Fine	Coarse	Medium	Fine	

Sample No.	Elev or Depth	Classification	Nat WC	LL	PL	PI	
B-2 553	Unknown	Silt/Clay					

Project Hart Environmental Mgmt.

Auto Ion

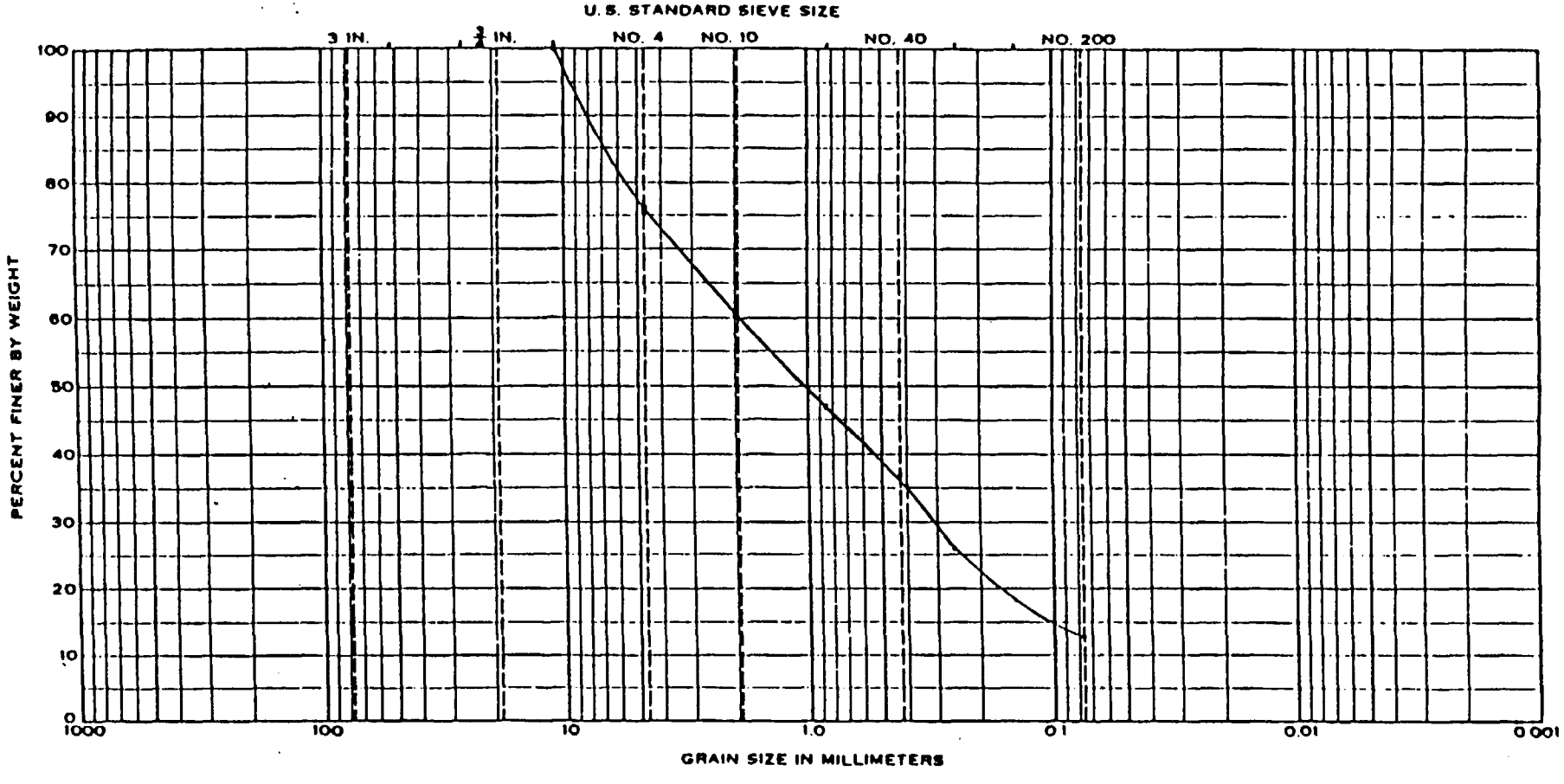
Michigan

Project No: 00083-00-00001-01

Date 2-5-88 JOB No. 88C235-01

GRADATION CURVES

J & L TESTING COMPANY, INC.



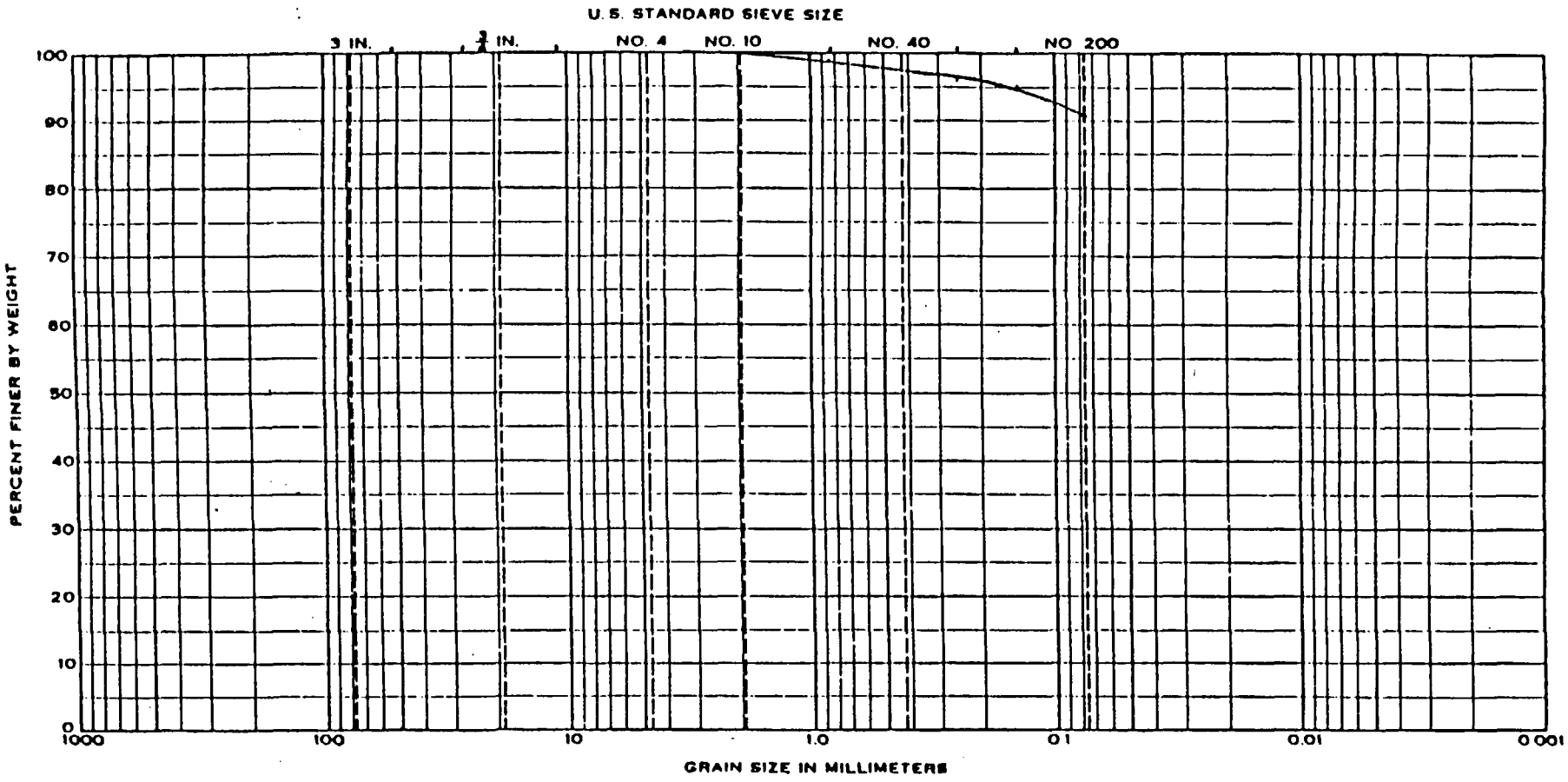
COBBLES	GRAVEL		SAND			SILT OR CLAY
	Coarse	Fine	Coarse	Medium	Fine	

Sample No.	Elev or Depth	Classification	Nat WC	LL	PL	PI	
B-3 554	Unknown	Silty C-F SAND and GRAVEL					

Project: Hart Environmental Mgmt.
Auto Ion
Michigan
Project No: 00083-00-00001-01
Date: 2-5-88 JOB No. 88C235-01

GRADATION CURVES

J & L TESTING COMPANY, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	Coarse	Fine	Coarse	Medium	Fine	

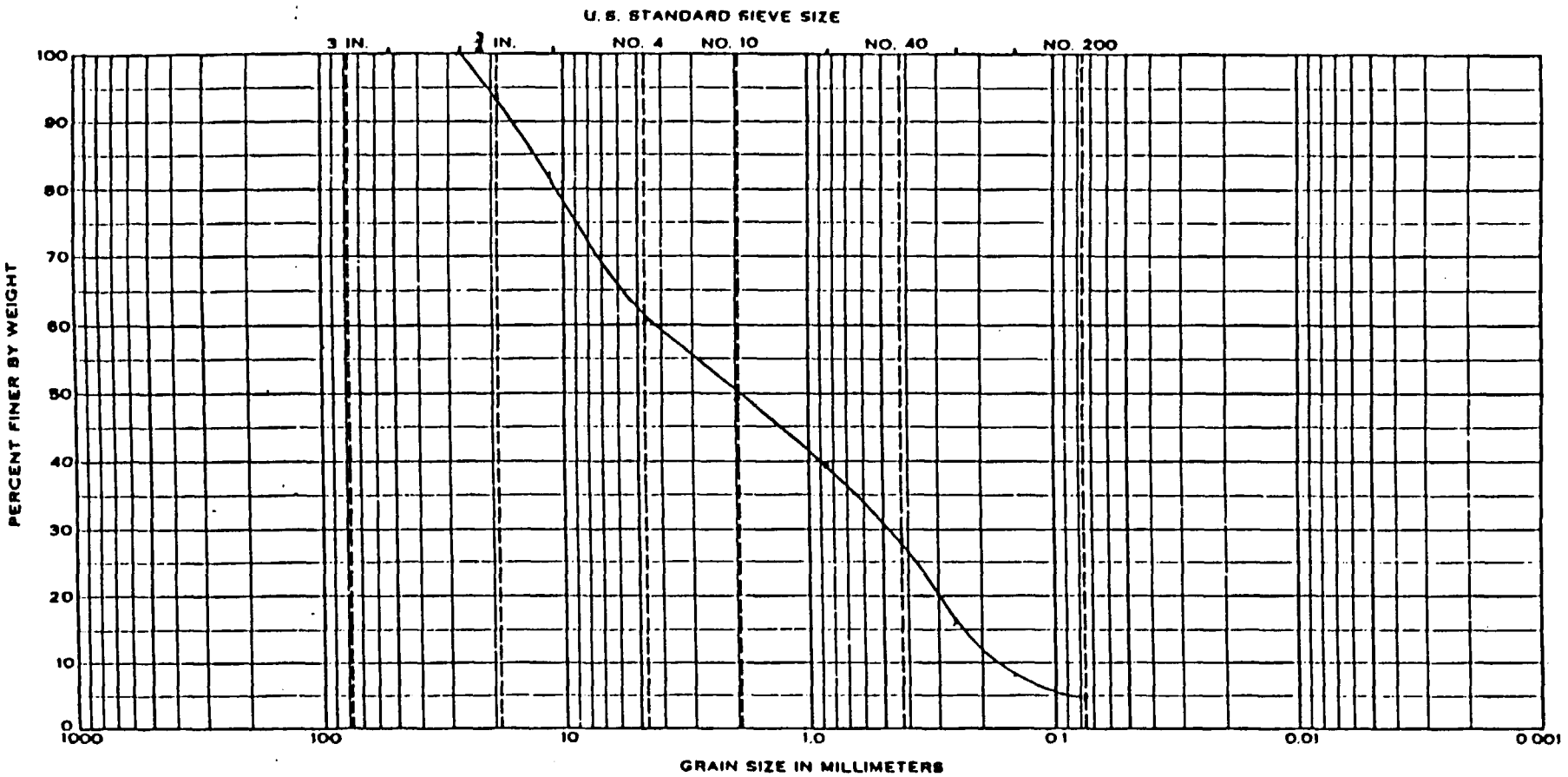
Sample No.	Elev or Depth	Classification	Nat WC	LL	PL	PI	
W-5 555	Unknown	Silt/Clay					

Project Hart Environmental Mgmt.
Auto Ion
Michigan
Project No: 00083-00-00001-01

GRADATION CURVES

Date 2-5-88 JOB No. 88C235-01

J & L TES COMPANY, INC



COBBLES	GRAVEL		SAND			SILT OR CLAY
	Coarse	Fine	Coarse	Medium	Fine	

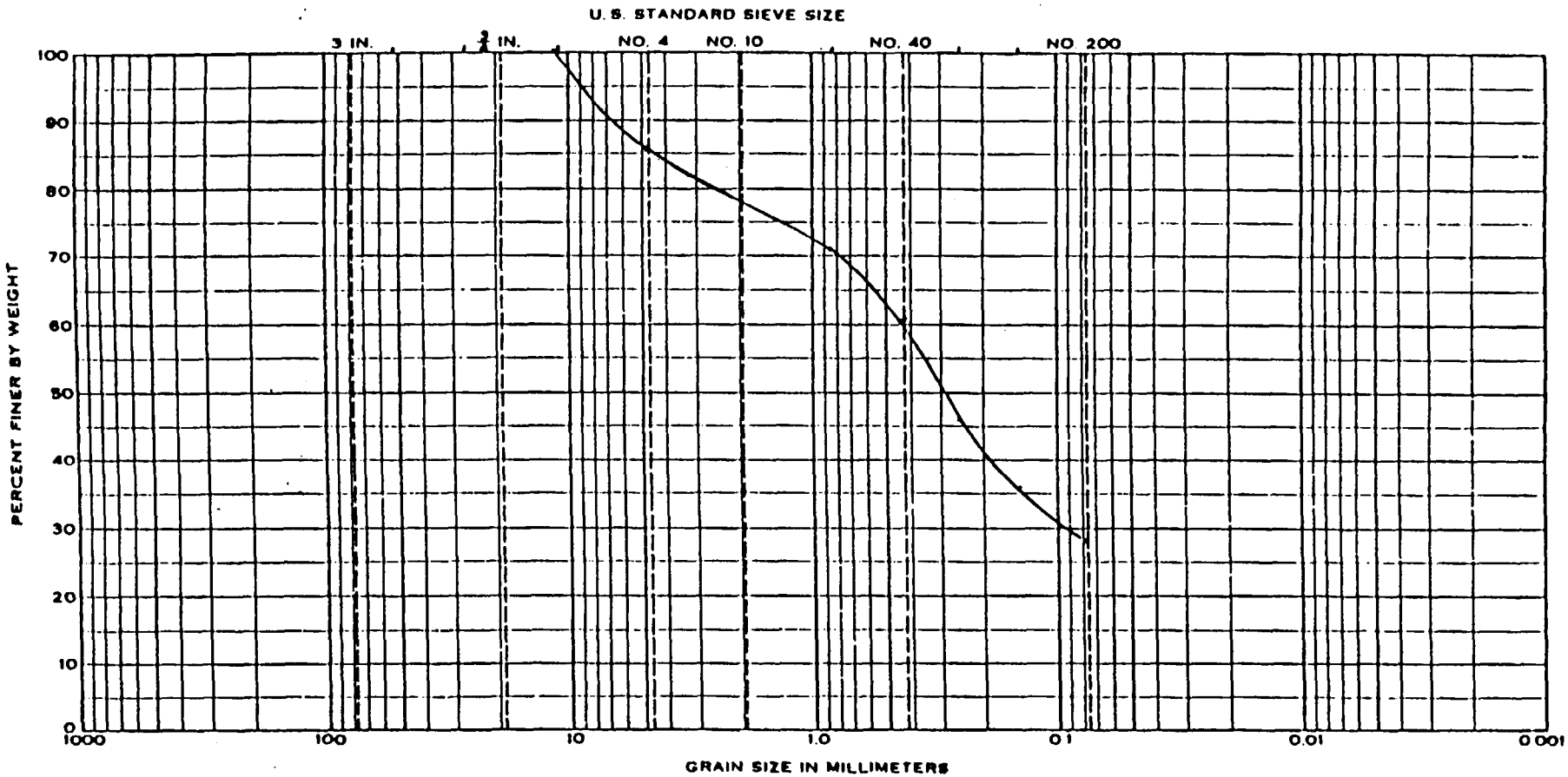
Sample No.	Elev or Depth	Classification	Nat WC	LL	PL	PI	
B-1 551	Unknown	C-F SAND & GRAVEL					

Project: Hart Environmental Mgmt.
Auto Ion
Michigan
Project No: 00083-00-00001-01

GRADATION CURVES

Date 2-5-88 JOB No. 88C235-01

J & L TESTING COMPANY, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	Coarse	Fine	Coarse	Medium	Fine	

Sample No.	Elev or Depth	Classification	Nat WC	LL	PL	PI	
W-2 551	Unknown	F-C Silty SAND					

Project Hart Environmental Mgmt.

Auto Ion

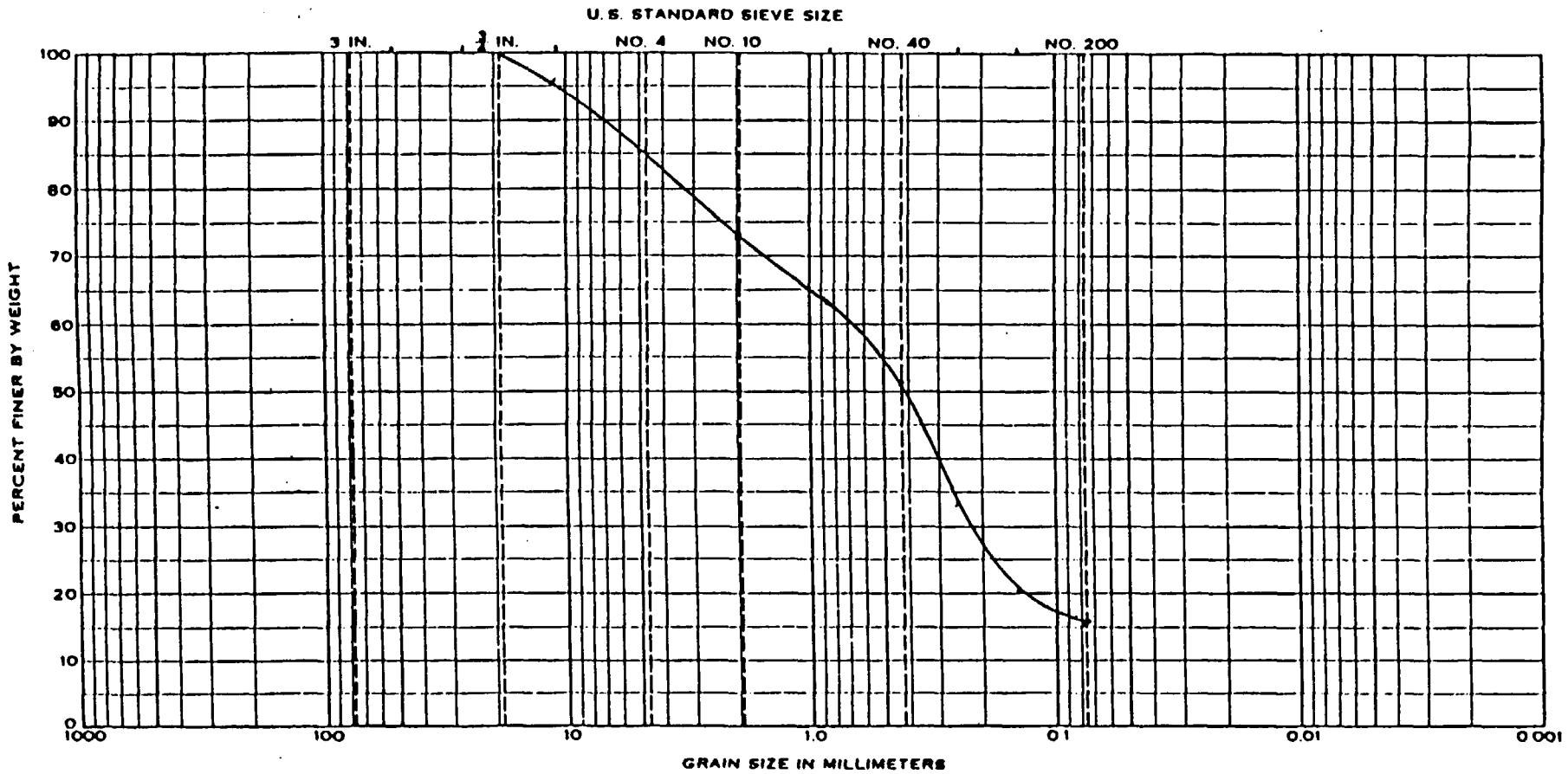
Michigan

Project No: 00083-00-00001-01

Date 2-5-88 JOB No. 88C235-01

GRADATION CURVES

J & L TEST COMPANY, INC.



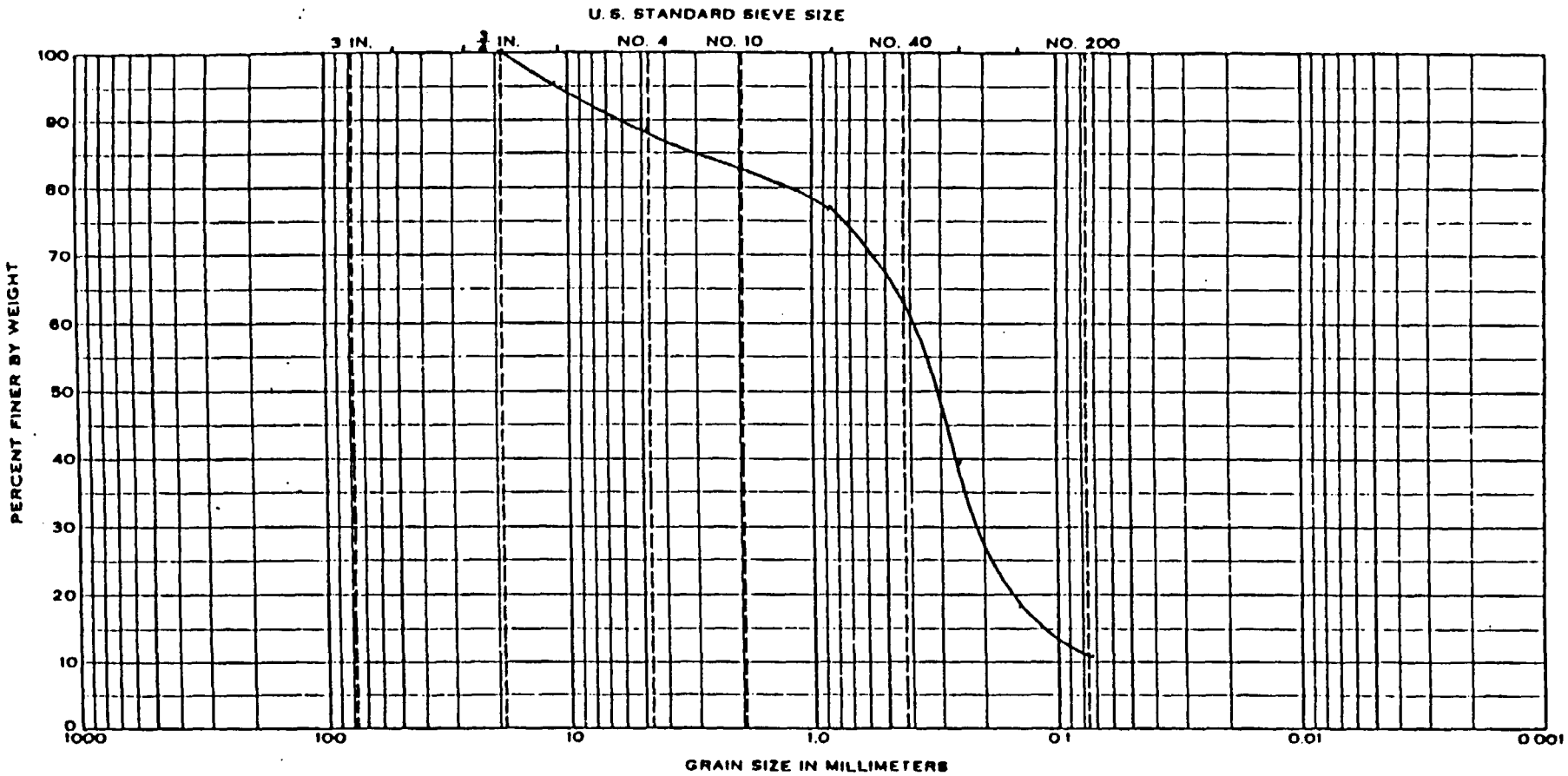
COBBLES	GRAVEL		SAND			SILT OR CLAY
	Coarse	Fine	Coarse	Medium	Fine	

Sample No.	Elev or Depth	Classification	Nat WC	LL	PL	PI
B-3 551	Unknown	Silty C-f SAND w/Tr F. Gravel				

Project: Hart Environmental Mgmt.
Auto Ion
Michigan
Project No: 00083-00-00001-01
Date 2-5-88 JOB No. 88C235-01

GRADATION CURVES

J & L TESTING COMPANY, INC



COBBLES	GRAVEL		SAND			SILT OR CLAY
	Coarse	Fine	Coarse	Medium	Fine	

Sample No.	Elev or Depth	Classification	Nat WC	LL	PL	PI	
B-1 552	Unknown	Silty C-F SAND w/Some Gravel					

Project Hart Environmental Mgmt.

Auto Ion

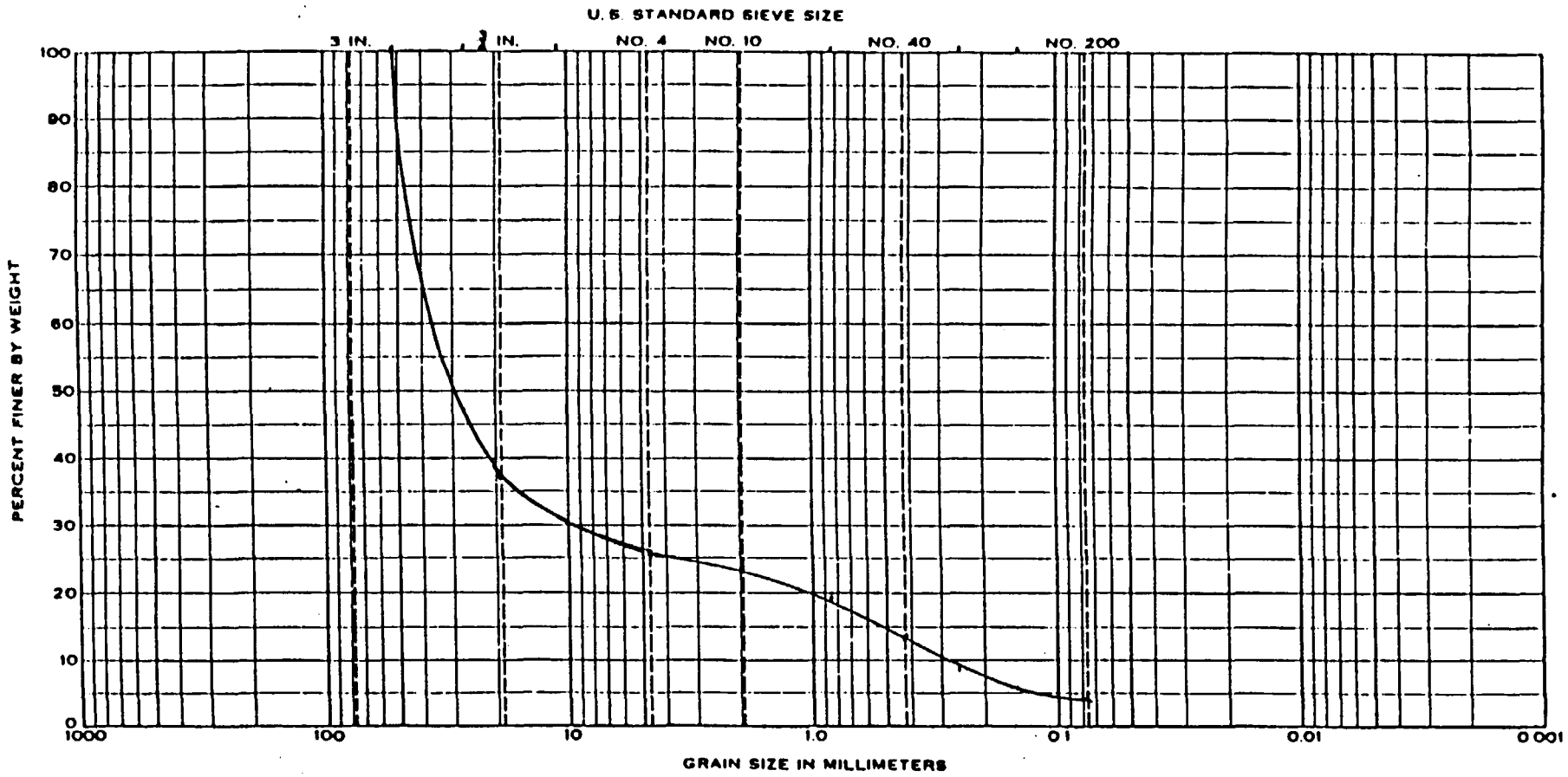
Michigan

Project No: 00083-00-00001-01

Date 2-5-88 JOB No. 88C235-01

GRADATION CURVES

J & L TES COMPANY, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	Coarse	Fine	Coarse	Medium	Fine	

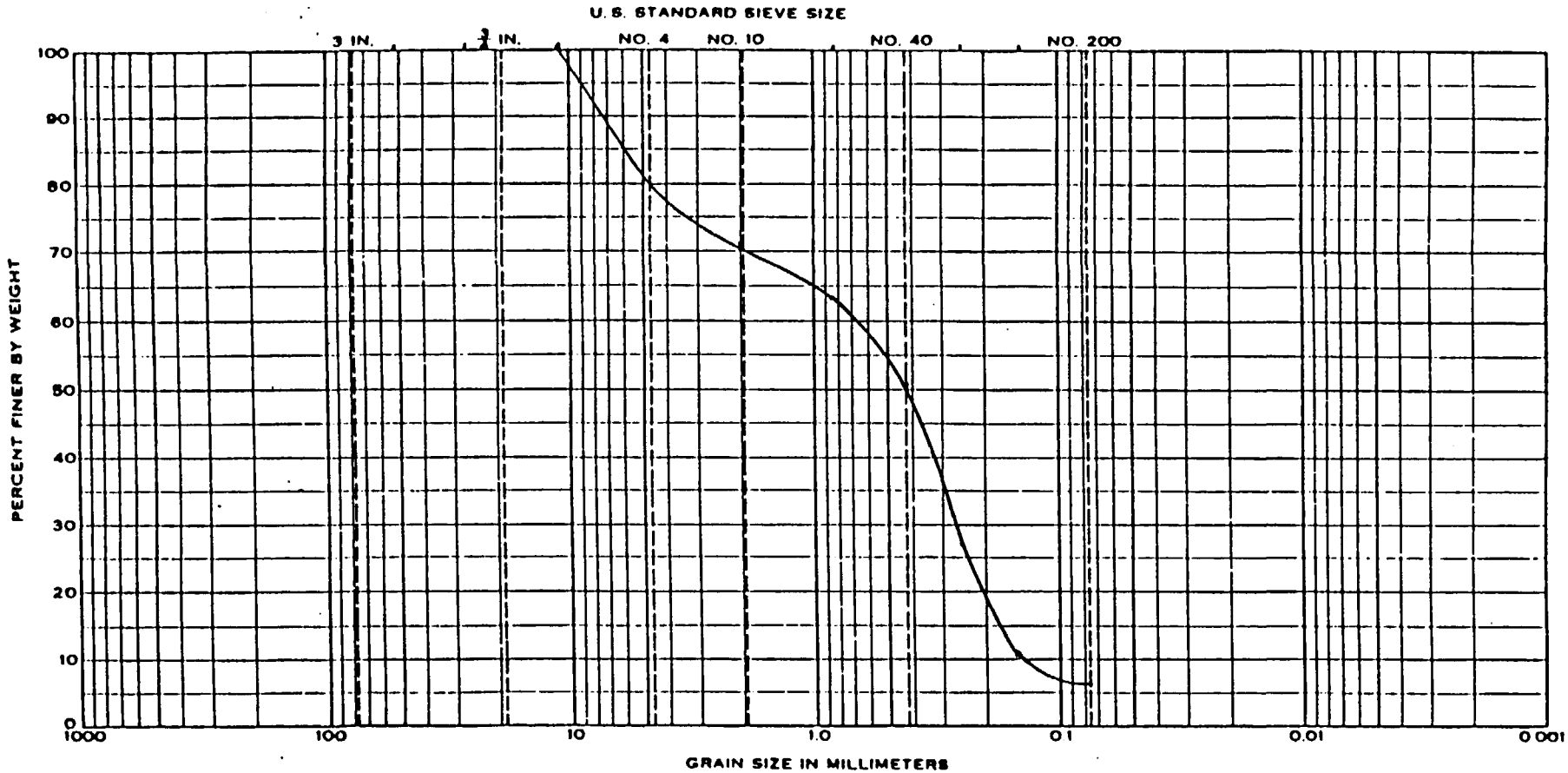
Sample No.	Elev or Depth	Classification	Nat WC	LL	PL	PI
B-1 553	Unknown	Sandy GRAVEL				

Project: Hart Environmental Mgmt.
Auto Ion
Michigan
Project No: 00083-00-00001-01

GRADATION CURVES

Date 2-5-88 JOB No. 88C235-01

J & L TESTING COMPANY, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	Coarse	Fine	Coarse	Medium	Fine	

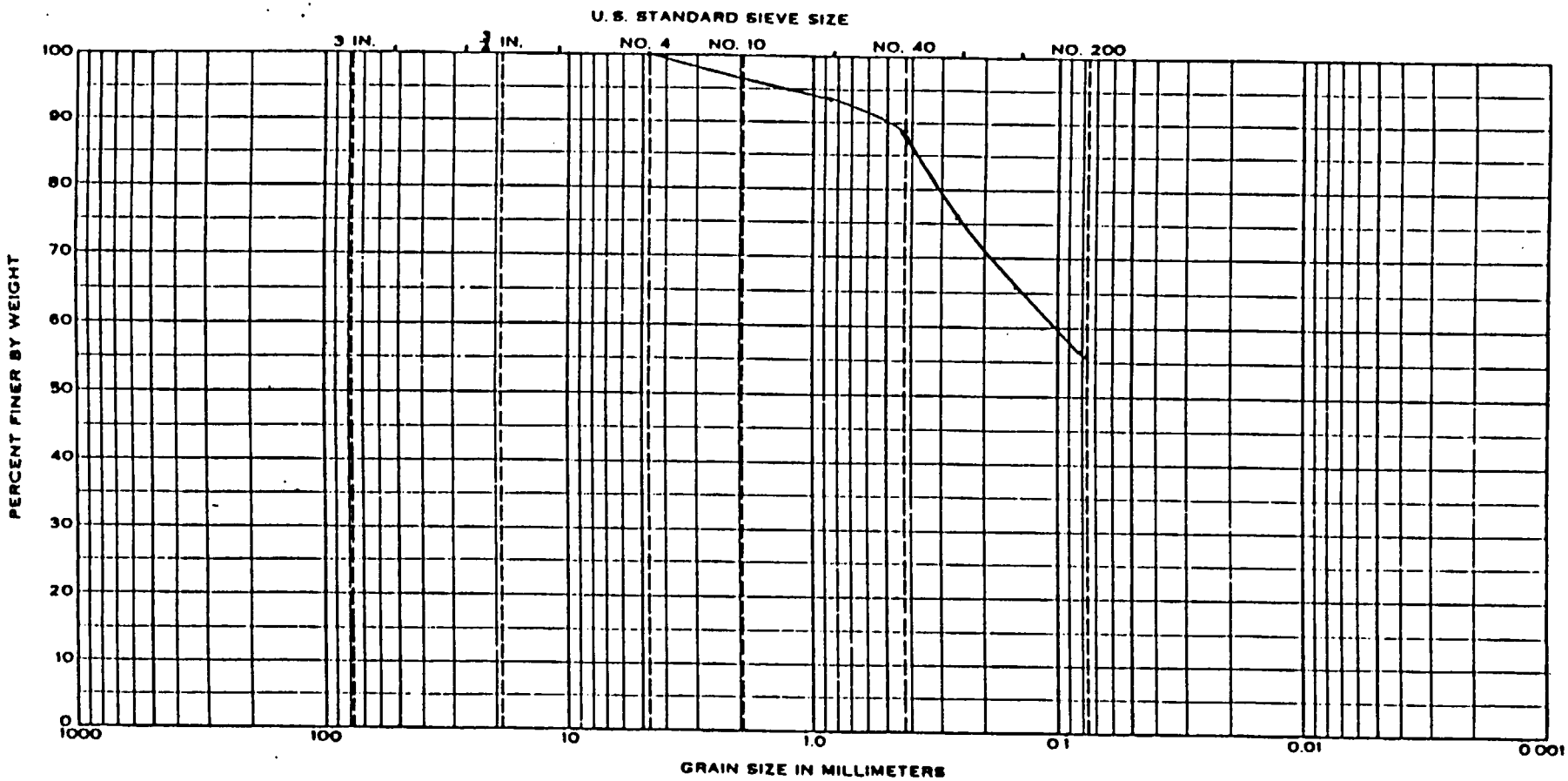
Sample No.	Elev or Depth	Classification	Nat WC	LL	PL	PI
W-2 553	Unknown	F-C SAND w/Gravel				

Project: Hart Environmental Mgmt.
Auto Ion
Michigan
Project No: 00083-00-00001-01

GRADATION CURVES

Date 2-5-88 JOB No. 88C235-01

J & L TES COMPANY, INC.



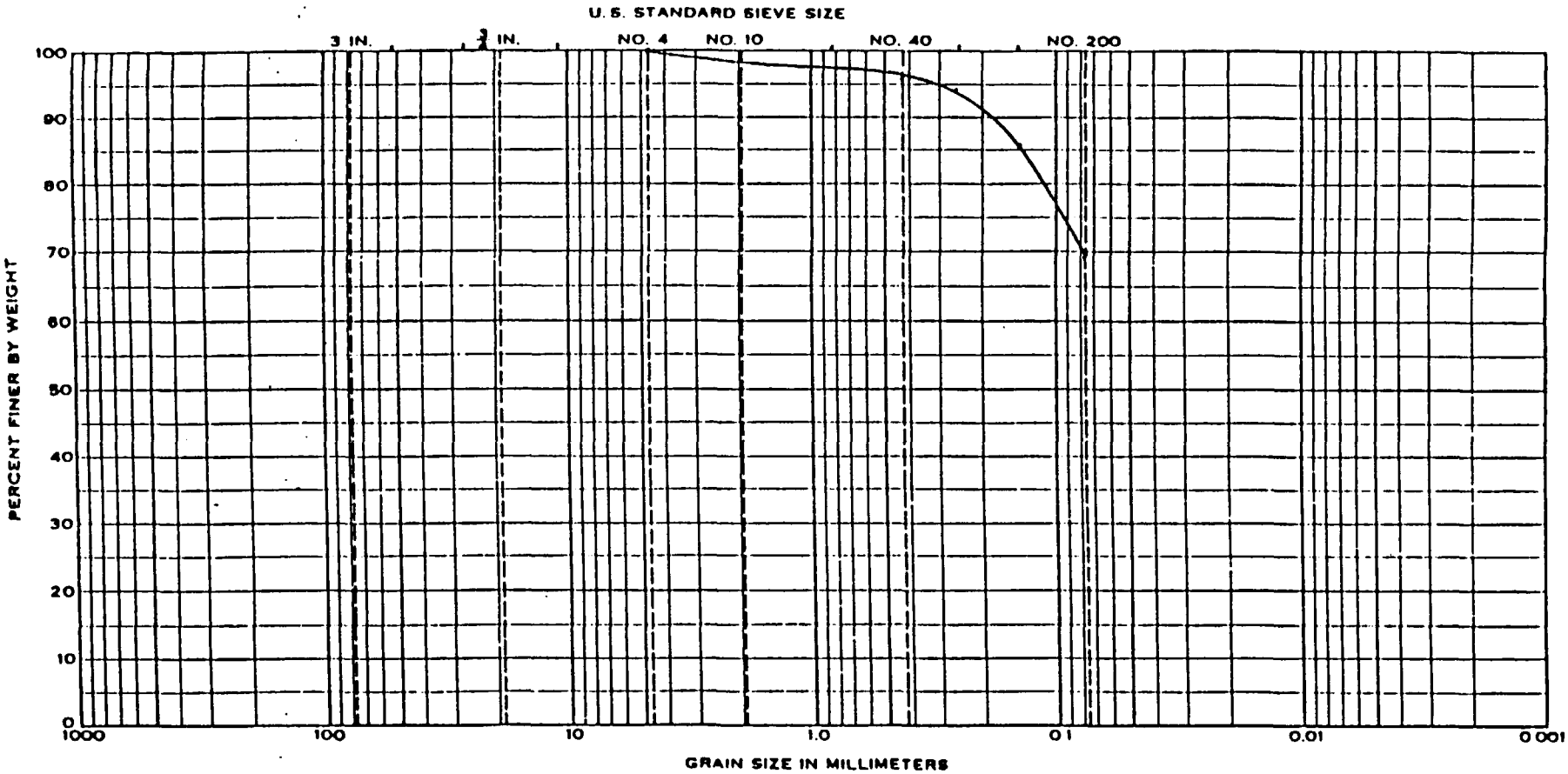
COBBLES	GRAVEL		SAND			SILT OR CLAY
	Coarse	Fine	Coarse	Medium	Fine	

Sample No.	Elev or Depth	Classification	Nat WC	LL	PL	PI
B-1 556	Unknown	F-M Sandy SILT				

Project: Hart Environmental Mgmt.
Auto Ion
Michigan
Project No: 00083-00-00001-01
Date: 2-5-88 JOB No. 88C235-01

GRADATION CURVES

J & L TESTING COMPANY, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	Coarse	Fine	Coarse	Medium	Fine	

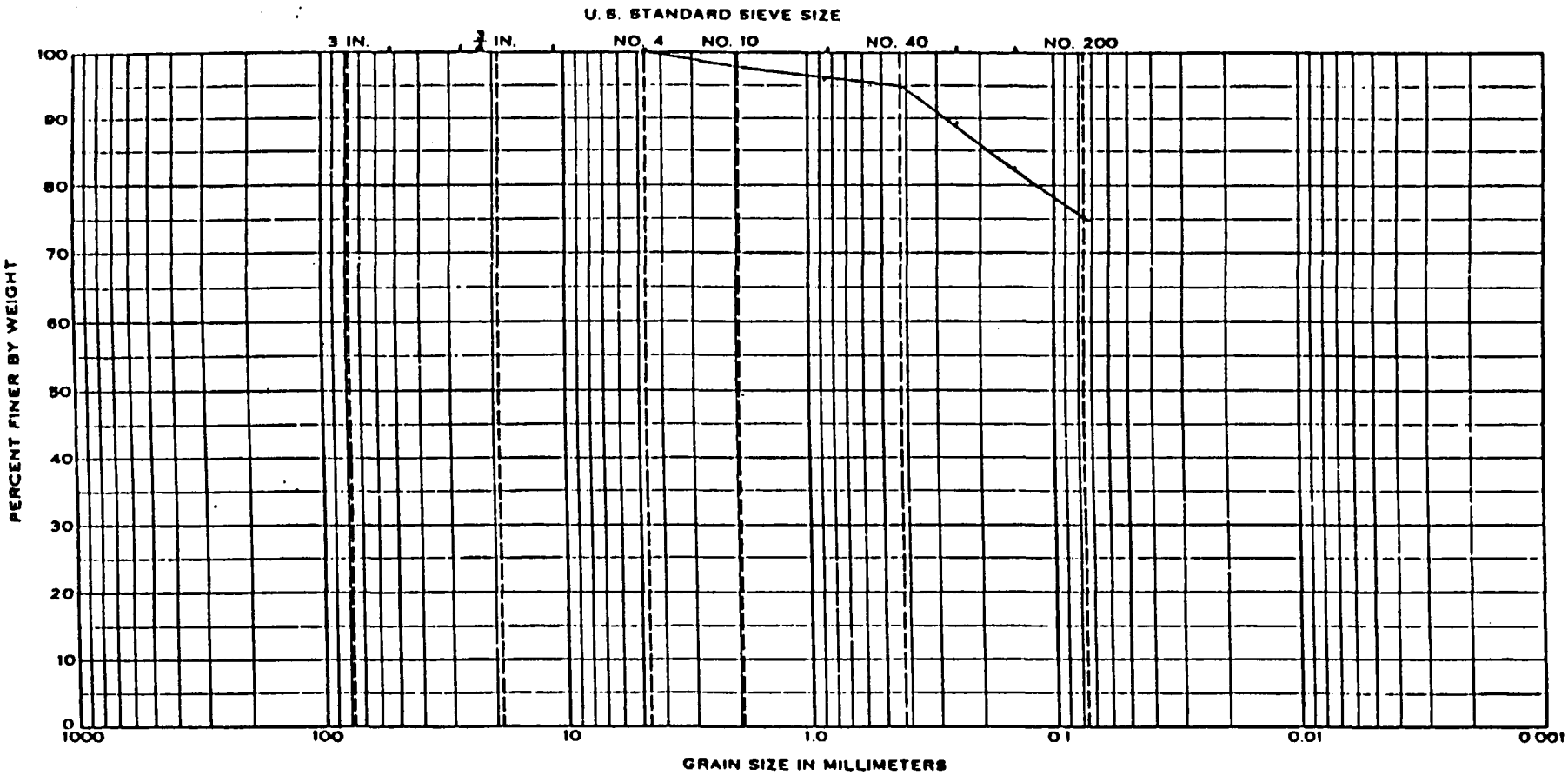
Sample No.	Elev or Depth	Classification	Nat WC	LL	PL	PI
B-2 556	Unknown	Sandy SILT/CLAY				

Project: Hart Environmental Mgmt.
Auto Ion
Michigan
Project No: 00083-00-00001-01

GRADATION CURVES

Date 2-5-88 JOB No. 88C235-01

J & L TES COMPANY, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	Coarse	Fine	Coarse	Medium	Fine	

Sample No.	Elev or Depth	Classification	Nat WC	LL	PL	PI	
B-1 557	Unknown	Sandy Silt/Clay					

Project Hart Environmental Mgmt.

Auto Ion

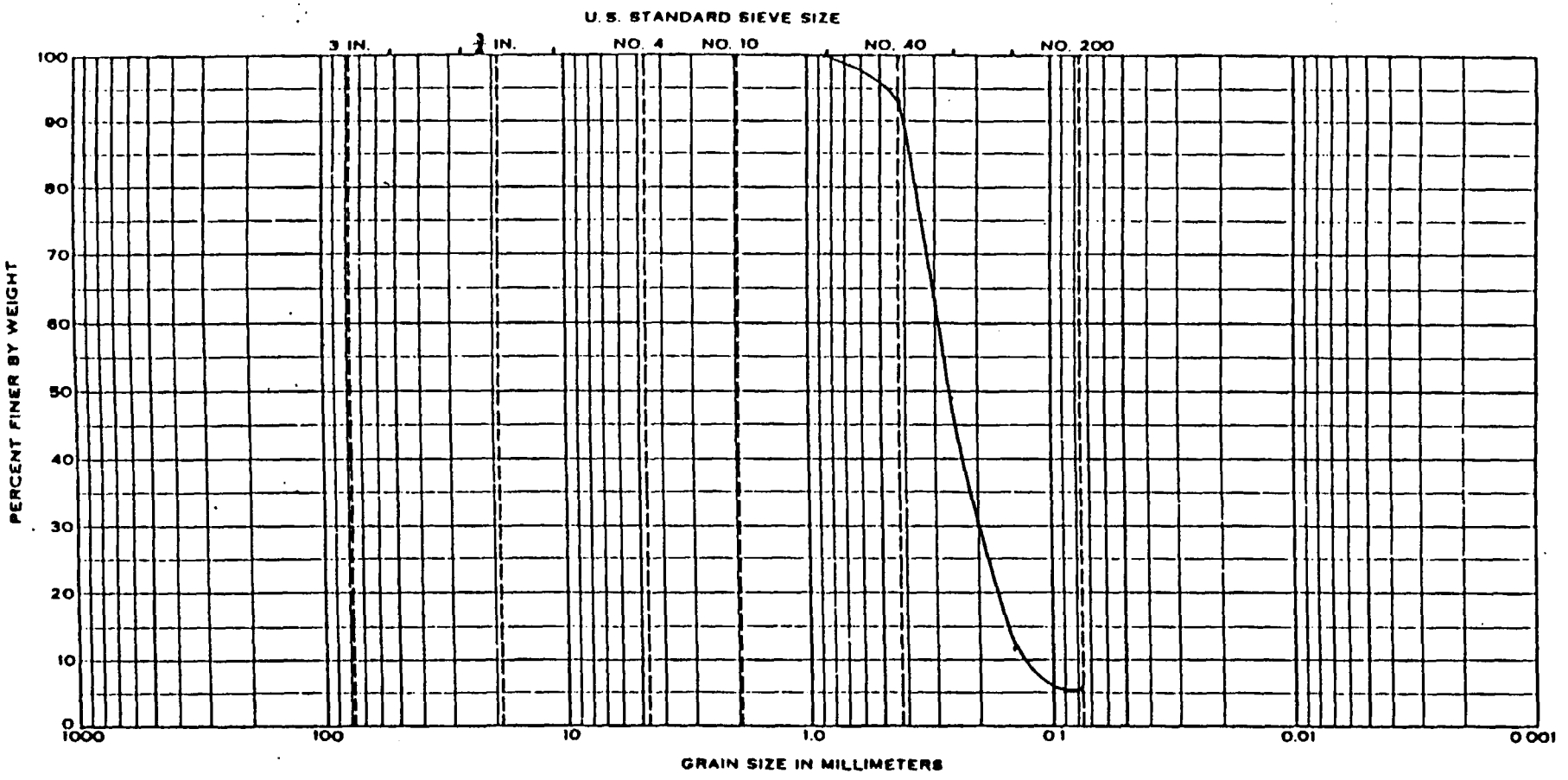
Michigan

Project No: 00083-00-00001-01

Date 2-5-88 JOB No. 88C235-01

GRADATION CURVES

J & L TESTING COMPANY, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	Coarse	Fine	Coarse	Medium	Fine	

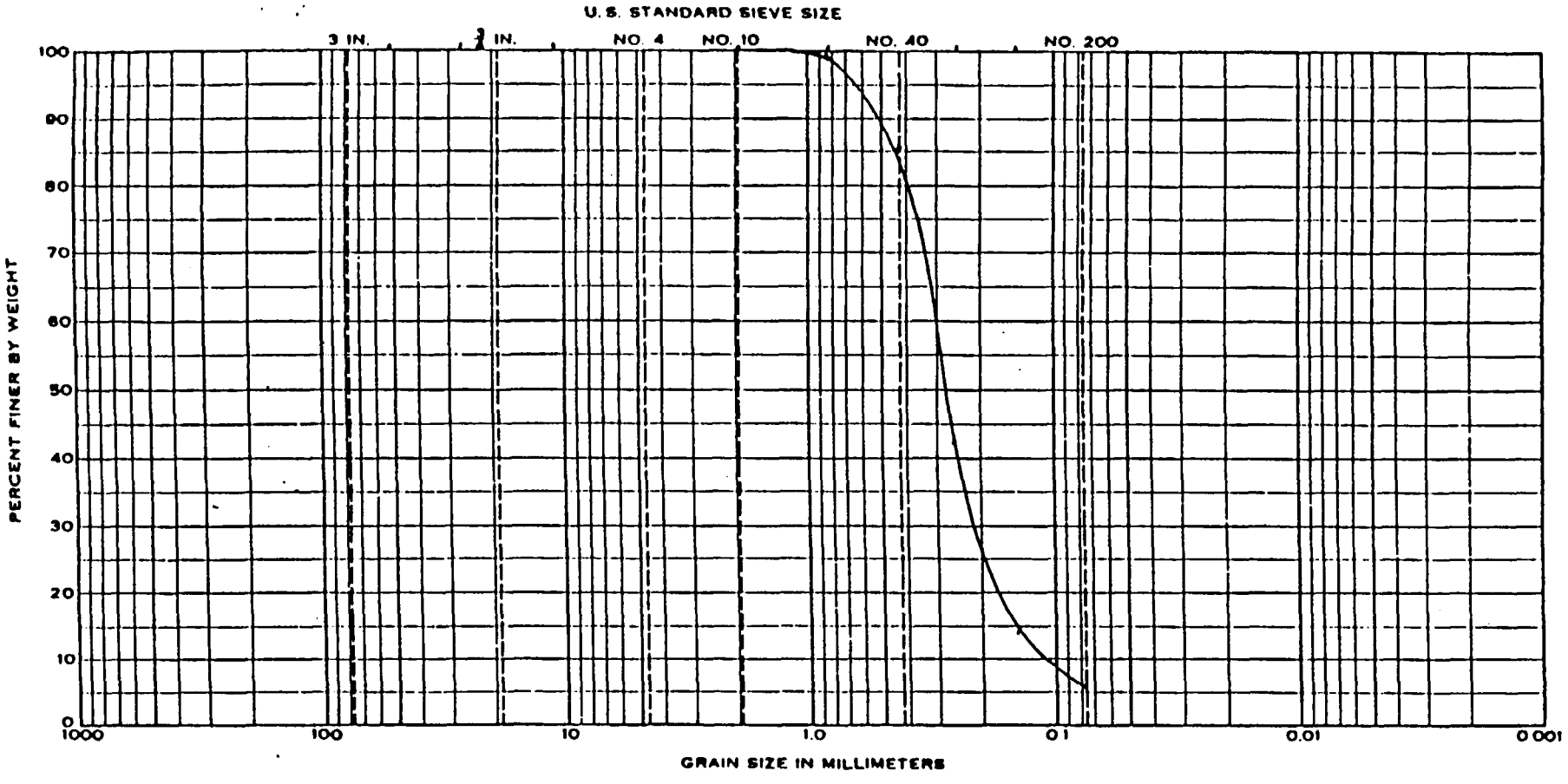
Sample No.	Elev or Depth	Classification	Nat WC	LL	PL	PI
W3-B 5510	Unknown	Fine SAND SP				

Project: Hart Environmental Mgmt.
Auto Ion
Michigan
Project No: 00083-00-00001-01

GRADATION CURVES

Date 2-5-88 JOB No. 88C235-01

J & L TEST. OMPANY, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	Coarse	Fine	Coarse	Medium	Fine	

Sample No.	Elev or Depth	Classification	Nat WC	LL	PL	PI	
W3-B 5511	Unk	Fine -Medium SAND-SP					

Project Hart Environmental Mgmt.

Auto Ion

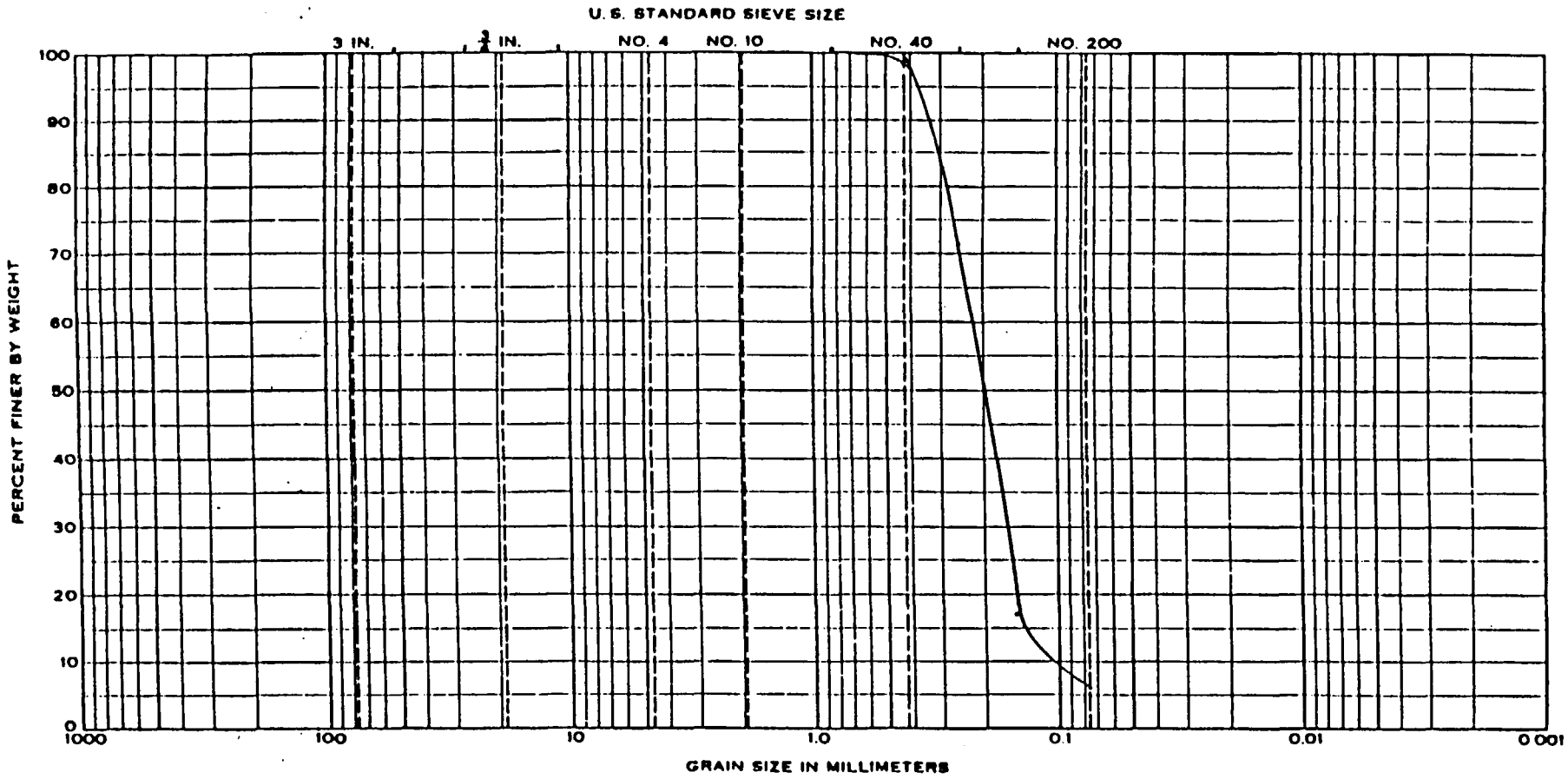
Michigan

Project No: 00083-00-00001-01

Date 2-5-88 JOB No. 88C235-01

GRADATION CURVES

J & L TESTING COMPANY, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	Coarse	Fine	Coarse	Medium	Fine	

Sample No.	Elev or Depth	Classification	Nat WC	LL	PL	PI
W3-B 5512	Unknown	Fine SAND SP				

Project: Hart Environmental Mgmt.
Auto Ion
Michigan
Project No: 00083-00-00001-01

GRADATION CURVES

Date 2-5-88 JOB No. 88C235-01

J & L TESTI. OMPANY, INC.

CHAIN OF CUSTODY RECORD

FRED C. HART ASSOCIATES, INC.

☐ 530 Fifth Avenue, New York, N.Y. 10036-5166 (212)840-3990
☐ 1110 Vermont Ave., N.W., Washington, D.C. 20005-3522 (202)223-5621
☐ Penn Center West III, Pittsburgh, PA. 15276-0001 (412)787-7144
☐ 296 Washington Ave. Ext., Albany, N.Y. 12203-1007 (518)869-6192
☐ 40 Ames Avenue, Meriden CT 06450-2943 (203)235-4557
☐ P.O. Box 8248, Cherry Hill, N.J. 08002-0248 (609)663-0440
☐ 2041 Business Center Drive, Irvine CA 92715 (714)476-8536

Rob McLeod
Hart Environmental Manager
3000 Town Center, Suite 31.
Southfield, MI 48075
313-358-0400

CLIENT NAME: Auto Ion SAMPLED BY: Harold Moritz

PROJECT NO.: 00083-00-00001-01 LAB NAME: J+L Testing Co. Inc.

SAMPLE IDENTIFICATION	DATE SAMPLED/TIME	NO. OF CONTAINERS	ANALYSIS REQUESTED/REMARKS
B1-SS6 grey clay	10-12-87		ASTM Standard Method Designation D422-63 (72)
B2-SS6 grey clay	10-13-87		" "
B1-SS7 grey clay	10-12-87		" "
W3b-SS10 grey sand	10-27-87		" "
W3b-SS11 grey sand	10-28-87		" "
W3b-SS12 grey sand	10-28-87		" "

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
R. McLeod	1-26-88/1700	[illegible]	1/27/88

FINAL DISPOSITION OF SAMPLE(S):	SHIPMENT METHOD:
	hand carry

COMMENTS: These soils may be contaminated.

APPENDIX V

Data Sheets, Case Narrative and AQ/QC Review

From December 1987 to February 1988, HART received laboratory analyses for the first round of sampling at the Auto Ion site. Inorganic analyses were performed by Century Laboratories, Inc. following the protocols specified in IFB WA85-J838/J839. Organic parameters were analyzed by United States Testing Company, Inc. following the protocols specified in IFB WA85-J664/J680.

A standard QA/QC data review was conducted on each sample based upon the appropriate IFB WA85 document. During this review, each parameter was flagged either usable without reservation, usable but estimated, usable but quantitatively questionable, or unusable. The major features of this review are summarized below. This appendix contains the complete listing of all laboratory results with the appropriate flags and the case narratives. Total dissolved solids (TDS) and total suspended solids (TSS) for water samples are included with the Hexavalent Chromium results for groundwater and surface water.

SOIL

Contractual holding times for cyanide analyses were generally 50-55 days, although guidelines specify 14 days. Exceeding the guidelines may result in the loss of cyanide by several mechanisms such as absorption onto the walls of the sample container. Although analytical results which fall significantly above the detection limit may be minimally affected by holding time violations, much of the cyanide data should be considered estimated.

Antimony and cyanide exhibited low spike recoveries ($\leq$ 30%) for at least 50% of the soil samples. Spiked sample analysis is designed to provide information about the effect of sample matrix on the digestion and measurement methodology. For samples exhibiting low spike recoveries, a negative result indicates severe analytical deficiencies which could produce false negatives. A positive result suggests the reported value represents a minimum concentration at which the analyte is present.

SEDIMENTS

Contractual holding times for cyanide analysis were 49 days, exceeding the 14 day guidelines. Again, exceeding the guidelines may result in a loss of cyanide and therefore all results should be considered estimates. Analyses exhibiting low spike recoveries ($\leq$ 30%) included cyanide, silver, and lead. As stated above, negative results may indicate severe analytical deficiencies with detection limits elevated over what is reported. Positive results should be considered a minimum concentration at which the analyte is present.

GROUNDWATER

Antimony and selenium exhibit low spike recoveries ($\leq$ 30%). Negative results may indicate severe analytical deficiencies with detection limits elevated over the reported. Positive results should be considered a minimum concentration at which the analyte is present.

SURFACE WATER

No analytical deficiencies.

F2334

REPORT NARRATIVE

The following report contains the results of samples submitted to Century Laboratories, Inc. (CLI) by Fred C. Hart for the Auto-Ion project. The samples were received by Century Laboratories Inc. on October 08, 1987. All samples were analyzed for total metals and cyanide as per SOW #785.

The following facts should be taken into consideration by the end user of these results:

1. The following ICVS and LCS solutions were used for this report.

ICVS	LCS
ICV #1 0487-ICP Metals	ICV #1-ICP Metals
ICV #3-Sb	ICV #3-Sb
WP1178C1-As	WP1178C1-As
ICV #2-Se	ICV #2-Se
ICV #4 Pb,Tl	ICV #4-Pb
WP481C2-Hg	MID-RANGE STD.-CN
WP178C8(1:1)-CN	WP980C1-Tl

2. MSA correlation coefficients are calculated by plotting the concentration added on the x axis and the absorbance on the y axis. Therefore, the y intercept is the absorbance value reported at the point where the spike added is zero.

3. The As raw data and technician summary sheets include samples for other clients run along with the samples for this report. The ICV's and ICB's which bracket the samples associated with this report are identified on the data summary sheets.

COVER PAGE
INORGANIC ANALYSES DATA PACKAGE

Lab Name Century Laboratories Case No. F2334

SOW No. 785 Q.C. Report No. FCN-01

Sample Numbers

EPA No.	Lab ID No.	EPA No.	Lab ID No.
SW1-1 (0-2')	F2334-01		
SW1-2 (2-4')	F2334-02		
SW1-3 (4-6')	F2334-03		
SW1-4 (9-11')	F2334-04		
SW1-5 (14-16')	F2334-05		
SW1-6 (19-21')	F2334-06		

F2348

REPORT NARRATIVE

The following report contains the results of samples submitted to Century Laboratories, Inc. (CLI) by Fred C. Hart for the Auto Ion Project. The samples were received by Century Laboratories Inc. on October 09, 1987. All samples were analyzed for total metals and cyanide as per EPA SOW #785.

The following facts should be taken into consideration by the end user of these results:

1. The following ICVS and LCS solutions were used for this report.

ICVS	LCS
ICV #1 0487-ICP Metals	ICV #1-ICP Metals
ICV #3(1186)-Sb	ICV #3(1186)-Sb
ICV #2(1186)-As,Se	ICV #2(1186)-As,Se
ICV #4(0387)-Pb,Tl	ICV #4(0387)-Pb,Tl
ICV #5-Hg	
WP179C8-CN	MID-RANGE STD.

2. All furnace elements were analyzed on the Perkin-Elmer graphite furnace.

3. The Lead value reported for sample# S-B-1-1 is taken from the ICP analysis. All applicable QC for this sample is contained in this report.

COVER PAGE
INORGANIC ANALYSES DATA PACKAGE

Lab Name Century Laboratories Case No. F2348

SOW No. 785 Q.C. Report No. F2348-02

Sample Numbers

Client EPA No.	Lab ID No.	EPA No.	Lab ID No.
S-B-1-1	F2348-01	S-B-1-4	F2348-04
S-B-1-2A	F2348-02	S-B-3-1	F2348-10
S-B-1-2B	F2348-03	S-B-3-2	F2348-11
S-B-1-3	F2348-04	S-B-3-3A	F2348-12
S-B-1-4	F2348-05	S-B-3-3B	F2348-13
S-B-1-5	F2348-06	S-B-3-4	F2348-14
S-B-1-6	F2348-07	S-B-3-5	F2348-15
S-B-1-7	F2348-08		

F2364

REPORT NARRATIVE

The following report contains the results of samples submitted to Century Laboratories, Inc. (CLI) by Fred C. Hart for the Auto-Ion project. The samples were received by Century Laboratories Inc. on October 12, 1987. All samples were analyzed for total metals and cyanide as per EPA SOW #785.

The following facts should be taken into consideration by the end user of these results:

1. The following ICVS and LCS solutions were used for this report.

ICVS	LCS
ICV #1 0487-ICP Metals	ICV #1-ICP Metals
ICV #3(1186)-Sb	ICV #3(1186)-Sb
ICV #2(1186)-As,Se	ICV #2(1186)-As,Se
ICV #4(0387)-Pb,Tl	ICV #4(0387)-Pb,Tl
ICV #5-Hg	
WS 1182C8-CN	Mid-Range Std.-CN

2. In the ICP analysis and in the furnace analysis there may be time gaps or sample cup gaps in the copy of the analysis submitted with this report. This is due to the fact that other samples not associated with this report were analyzed with the enclosed samples but have not been presented here. A copy of the complete analysis can be produced upon request.

3. Sample numbers S-B-3-6 and S-B-3-15 were reported as less than the contract required detection limit for lead as per EPA furnace flow chart.

4. Sample number S-B-3-16 was not analyzed for Thallium.

COVER PAGE
INORGANIC ANALYSES DATA PACKAGE

Lab Name: CENTURY LABORATORIES Case No.: F2364
SOW No.: 7HI Q.C. Report No.: FCH-05

Sample Numbers

Client EPA No.	Lab ID No.	Client EPA No.	Lab ID No.
S-B-3-6	F2364-01	S-B-3-15	F2364-09
S-B-3-7	F2364-02	S-B-3-16	F2364-10
S-B-3-9	F2364-03		
S-B-3-10	F2364-04		
S-B-3-11	F2364-05		
S-B-3-12	F2364-06		
S-B-3-13	F2364-07		
S-B-3-14	F2364-08		

F2379

REPORT NARRATIVE

The following report contains the results of samples submitted to Century Laboratories, Inc. (CLI) by Fred C. Hart for the Auto Ion project. The samples were received by Century Laboratories Inc. on October 14, 1987. All samples were analyzed for the total metals and cyanide as per EPA SOW #785.

The following facts should be taken into consideration by the end user of these results:

1. The following ICVS and LCS solutions were used for this report.

ICVS	LCS
ICV #1 0487-ICP Metals	ICV #1-ICP Metals
WP975C2-Sb	WP975C2-Sb
ICV #2(1186)-As,Se	ICV #2(1186)-As,Se
ICV #4(0387)-Pb,Tl	ICV #4(0387)-Pb,Tl
ICV #5-Hg	
WP179C8-CN	Mid-Range Std.

3. The Arsenic analysis was the only furnace element run on the Varian Spectra 30 system. All other furnace elements were performed on the Perkin-Elmer instrument.

6. Sample #S-B-2-1 was reported as less than the CRDL (10) for the As analysis as per EPA furnace flow chart SOW #785. Also, sample = S-B-2-5 was reported as less than CRDL (5.0) for Se.

COVER PAGE
INORGANIC ANALYSES DATA PACKAGE

Lab Name: Century Laboratories Case No.: F2379
SOW No.: 7/87 Q.C. Report No.: FCW-06

Sample Numbers

EPA No.	Lab ID No.	EPA No.	Lab ID No.
S-B-2-6	2379-01	S-W-S-2	2379-09
S-B-2-7	2379-02	S-W-S-4a	2379-10
S-B-2-8	2379-03	S-W-S-4b	2379-11
S-B-3-17	2379-04	S-W-S-5	2379-12
S-B-2-1	2379-05		
S-B-2-3	2379-06		
S-B-2-5	2379-07		
S-W-S-1	2379-08		

F2414

REPORT NARRATIVE

The following report contains the results of samples submitted to Century Laboratories, Inc. (CLI) by Fred C. Hart for the Auto Ion project. The samples were received by Century Laboratories Inc. on October 16, 1987. All samples were analyzed for the total metals and cyanide as per EPA SOW #785.

The following facts should be taken into consideration by the end user of these results:

1. The following ICVS and LCS solutions were used for this report.

ICVS	LCS
ICV #1 0487-ICP Metals	ICV #1-ICP Metals
WP975C2-Sb	WP975C2-Sb
ICV #2(1186)-As,Se	ICV #2(1186)-As,Se
ICV #4(0387)-Pb,Tl	ICV #4(0387)-Pb,Tl
ICV #5-Hg	
WP179C8-CN	Mid-Range Std.

2. The Arsenic analysis was the only furnace element run on the Varian Spectra 30 system. All other furnace elements were performed on the Perkin-Elmer instrument.

3. The lead values for the following samples were taken from the ICP analysis: S-W-6-1, S-W-6-2, S-W-6-3, S-W-6-4, S-W-6-5, and S-W-6-7. All other lead values are taken from the furnace analysis.

4. Sample #S-W-6-8 was reported as less than the CRDL for As (10 ppb) and sample #S-W-6-5 was reported as less than the CRDL for Se (5.0 ppb) as per EPA SOW #785 furnace flow chart.

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INORGANIC ANALYSES DATA PACKAGE

Lab Name Century Laboratories Case No. F2414
SOW No. 785 Q.C. Report No. FCH-0F

Sample Numbers

CLIENT EPA No.	Lab ID No.	CLIENT EPA No.	Lab ID No.
S-W-6-1	F2414-01	S-W-6-4	F2414-09
S-W-6-2	F2414-02	S-W-6-6	F2414-10
S-W-6-3	F2414-03	S-W-5-7	F2414-11
S-W-6-4	F2414-04		
S-W-6-5	F2414-05		
S-W-6abc	F2414-06		
S-W-6-6b	F2414-07		
S-W-6-7	F2414-08		

F2417

REPORT NARRATIVE

The following report contains the results of samples submitted to Century Laboratories, Inc. (CLI) by Fred C. Hart for the Auto Ion project. The samples were received by Century Laboratories Inc. on October 24, 1987. All samples were analyzed for the total metals and cyanide as per EPA SOW #785.

The following facts should be taken into consideration by the end user of these results:

1. The following ICVS and LCS solutions were used for this report.

ICVS	LCS
ICV #1 0487-ICP Metals	ICV #1-ICP Metals
WP975C2-Sb	WP975C2-Sb
ICV #2(1186)-As,Se	ICV #2(1186)-As,Se
ICV #4(0387)-Pb,Tl	ICV #4(0387)-Pb,Tl
ICV #5-Hg	
WP179C8-CN	Mid-Range Std.

3. The Arsenic analysis was the only furnace element run on the Varian Spectra 30 system. All other furnace elements were performed on the Perkin-Elmer instrument.

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INORGANIC ANALYSES DATA PACKAGE

Lab Name: CENTURY LABORATORIES Case No.: F2417
SOW No.: 785 Q.C. Report No.: FCH-07

Sample Numbers

~~EPA~~ Client No.	Lab ID No.	~~EPA~~ Client No.	Lab ID No.
S-W-2-1c	F2417-1		
S-W-2-1b	F2417-02		
S-W-2-2	F2417-03		
S-W-2-3	F2417-04		
S-W-2-4	F2417-05		
S-W-2-5	F2417-06		

REPORT NARRATIVE

The following report contains the results of samples submitted to Century Laboratories, Inc. (CLI) by Fred C. Hart for the Auto-Ion project. The samples were received on October 17, 1987 and were analyzed for total metals and cyanide as per EPA-CLP SOW #785.

The following facts should be taken into consideration by the end user of these results:

1. The following ICVS and LCS solutions were used for this report.

ICVS	LCS
ICV #1 0487-ICP Metals	ICV #1-ICP Metals
ICV #3-Sb	ICV #3-Sb
ICV #2(1186)-As,Se	ICV #2(1186)-As,Se
ICV #4(0387)-Pb,Tl	ICV #4(0387)-Pb,Tl
ICV #5-Hg	
WP 17908-CN	Mid-Range Std.

2. The following samples were reported as less than the contract required detection limits (CRDL) as per furnace flow chart, Section E, SOW# 785.

Sample	Element	CRDL
S-W-4-6	As	10
S-W-4-1	Se	5.0

3. Thallium analysis was not performed on samples S-B-5-1 and S-B-4-3

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INORGANIC ANALYSES DATA PACKAGE

Lab Name Century Laboratories Case No. [illegible]
SOW No. 785 Q.C. Report No. [illegible]

Sample Numbers

Client EPA No.	Lab ID No.	Client EPA No.	Lab ID No.	EPA No.	Lab ID No.
S-W-3b-1	F2456-01	S-E-1-16	F2456-09	S-B-4-5	[illegible]
S-W-3b-2	F2456-02	S-E-1-14	F2456-10	S-W-4-5	[illegible]
S-W-3b-3	F2456-03	S-E-1-10	F2421-17	S-E-1-9	[illegible]
S-W-3b-4	F2456-04	S-B-4-4	F2424-18	S-E-5-1	[illegible]
S-W-3b-5	F2456-05	S-W-4-6	F2424-19	S-E-4-3	[illegible]
S-E-1-17	F2456-06	S-E-1-13	F2424-20		
S-E-1-19	F2456-07	S-E-1-12	F2424-21		
S-E-1-15	F2456-08	S-E-4-2	F2424-22		
		S-E-7-4	F2424-23		
		S-E-5-2	F2424-24		

F2456

REPORT NARRATIVE

The following report contains the results of samples submitted to Century Laboratories, Inc. (CLI) by Fred C. Hart for the Auto Ion project. The samples were received on October 22, 1987 and were analyzed for total metals and cyanide as per EPA-CLP SOW #785.

The following facts should be taken into consideration by the end user of these results:

1. The following ICVS and LCS solutions were used for this report.

ICVS	LCS
ICV #1 0487-ICP Metals	ICV #1-ICP Metals
ICV #3-Sb	ICV #3-Sb
ICV #2(1186)-As,Se	ICV #2(1186)-As,Se
ICV #4(0387)-Pb,Tl	ICV #4(0387)-Pb,Tl
ICV #5-Hg	

2. The following samples were reported as less than the CRDL as per SOW #785 furnace flow chart (Section E).

SAMPLE #	ELEMENT	CRDL (ppb)
S-W-3b-2	As	10
S-W-3b-3b	As	10
S-W-3b-4	As	10
S-B-1-19	As	10
S-B-1-15	Pb	5.0
S-B-1-14	Pb	5.0

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INORGANIC ANALYSES DATA PACKAGE

Lab Name Century Laboratories Case No. F2456
SOW No. 785 Q.C. Report No. F2456-10

Sample Numbers

Client EPA No.	Lab ID No.	Client EPA No.	Lab ID No.
S-W-3b-1	F2456-01	S-B-1-16	F2456-09
S-W-3b-2	F2456-02	S-B-1-14	F2456-10
S-W-3b-3a	F2456-03		
S-W-3b-3b	F2456-04		
S-W-3b-4	F2456-05		
S-B-1-17	F2456-06		
S-B-1-19	F2456-07		
S-B-1-15	F2456-08		

F2482

REPORT NARRATIVE

The following report contains the results of samples submitted to Century Laboratories, Inc. (CLI) by Fred C. Hart for the Auto Ion project. The samples were received by Century Laboratories Inc. on October 23, 1987. All samples were analyzed for the total metals and cyanide as per EPA SOW #785.

The following facts should be taken into consideration by the end user of these results:

1. The following ICVS and LCS solutions were used for this report.

ICVS	LCS
ICV #1 0487-ICP Metals	ICV #1-ICP Metals
WP975C2-Sb	WP975C2-Sb
ICV #2(1186)-As,Se	ICV #2(1186)-As,Se
ICV #4(0387)-Pb,Tl	ICV #4(0387)-Pb,Tl
ICV #5-Hg	
WP179C8-CN	Mid-Range Std.

2. The spike and duplicate raw data for arsenic and thallium can be found with the Fred C. Hart report # F2414.

3. The LCS and prep blank raw data for thallium can be found with the Fred C. Hart report # F2414.

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INORGANIC ANALYSES DATA PACKAGE

Lab Name Century Laboratories Case No. F2482
SOW No. 785 Q.C. Report No. FCH-09

Sample Numbers

Client ~~EPA~~ No.	Lab ID No.	Client ~~EPA~~ No.	Lab ID No.
SW38-6	F2482-01		
SW38-5	F2482-02		

F2510

REPORT NARRATIVE

The following report contains the results of samples submitted to Century Laboratories, Inc. (CLI) by Fred C. Hart for the Auto-Ion project. The samples were received on October 28, 1987 and were analyzed for total metals and cyanide as per EPA-CLP SOW #785.

The following facts should be taken into consideration by the end user of these results:

1. The following ICVS and LCS solutions were used for this report.

ICVS	LCS
ICV #1 0487-ICP Metals	ICV #1-ICP Metals
ICV #3-Sb	ICV #3-Sb
ICV #2(1186)-As,Se	ICV #2(1186)-As,Se
ICV #4(0387)-Pb,Tl	ICV #4(0387)-Pb,Tl
ICV #5-Hg	
WP 179C8-CN	Mid-Range Std.

2. Sample S-W-3B-7 was reported as less than the CRDL for Pb as per EPA-CLP furnace flow chart, SOW #785.

3. No cyanide QC was performed due to limited sample available.

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INORGANIC ANALYSES DATA PACKAGE

Lab Name: CENTURY LABORATORIES Case No. F2510
SOW No. 785 Q.C. Report No. FCH-16

Sample Numbers

EPA No.	Lab ID No.	EPA No.	Lab ID No.
S-W-3B-7	F2510-01		
S-W-3B-8	F2510-02		
S-W-3B-9	F2510-03		
S-W-3B-10	F2510-04		
S-W-3B-11	F2510-05		
S-W-3B-12	F2510-06		

F2517

REPORT NARRATIVE

The following report contains the results of samples submitted to Century Laboratories, Inc. (CLI) by Fred C. Hart for the Auto-Ion project. The sample was received on October 29, 1987 and was analyzed for total metals and cyanide as per EPA-CLP SOW #785.

The following facts should be taken into consideration by the end user of these results:

1. The following ICVS and LCS solutions were used for this report.

ICVS	LCS
ICV #1 0487-ICP Metals	ICV #1-ICP Metals
ICV #3-Sb	ICV #3-Sb
ICV #2(1186)-As,Se	ICV #2(1186)-As,Se
ICV #4(0387)-Pb,Tl	ICV #4(0387)-Pb,Tl
ICV #5-Hg	
WP 179C8-CN	Mid-Range Std.

2. The sample was reported as less than the CRDL for Pb (5.0 ppb) as per EPA-CLP furnace flow chart, SOW #785.

3. The furnace spike for lead is not available as the sample was spiked for lead at the ICP level.

4. The cyanide holding time for this sample was exceeded by 7 days.

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INORGANIC ANALYSES DATA PACKAGE

Lab Name: Century Laboratories Case No.: F2530
SOW No.: 785 Q.C. Report No.: FW-14

Sample Numbers

EPA No.	Lab ID No.	EPA No.	Lab ID No.
SWA-1	F2530-01		
SWA-4	F2530-02		
SWA-4D	F2530-03		
SWA-21	F2530-04		
SWA-24	F2530-05		

F2530

REPORT NARRATIVE

The following report contains the results of samples submitted to Century Laboratories, Inc. (CLI) by Fred C. Hart for the Auto-Ion project. The samples were received on October 30, 1987 and were analyzed for total metals and cyanide as per EPA-CLP SOW #785. Also, the samples were analyzed for hexavalent chromium, total suspended solids, and total dissolved solids.

The following facts should be taken into consideration by the end user of these results:

1. The following ICVS and LCS solutions were used for this report.

ICVS	LCS
ICV #1 0487-ICP Metals	ICV #1-ICP Metals
ICV #3-Sb	ICV #3-Sb
ICV #2(1186)-As,Se	ICV #2(1186)-As,Se
ICV #4(0387)-Pb,Tl	ICV #4(0387)-Pb,Tl
ICV #5-Hg	
WP 179C8-CN	Mid-Range Std.

2. The ICP raw data contains some time gaps. This is due to the fact that samples that did not pertain to this report but were run on the same analysis were omitted.

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INORGANIC ANALYSES DATA PACKAGE

Lab Name: CENTURY LABORATORIES Case No.: F2517
SOW No.: 785 Q.C. Report No.: FCH-17

Sample Numbers

EPA No.	Lab ID No.	EPA No.	Lab ID No.
D-W-	F2517-01		

F2532

REPORT NARRATIVE

The following report contains the results of samples submitted to Century Laboratories, Inc. (CLI) by Fred C. Hart for the Auto-Ion project. The samples were received on October 30, 1987 and were analyzed for total metals and cyanide as per EPA-CLP SOW #785.

The following facts should be taken into consideration by the end user of these results:

1. The following ICVS and LCS solutions were used for this report.

ICVS	LCS
ICV #1 0487-ICP Metals	ICV #1-ICP Metals
ICV #3-Sb	ICV #3-Sb
ICV #2(1186)-As,Se	ICV #2(1186)-As,Se
ICV #4(0387)-Pb,Tl	ICV #4(0387)-Pb,Tl
ICV #5-Hg	
WP 179C8-CN	Mid-Range Std.

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Lab Name: Century Laboratories Case No. F2532
SOW No. 74 Q.C. Report No. FCN-15

Sample Numbers

EPA No.	Lab ID No.	EPA No.	Lab ID No.
SD-F1	F2532-01		
SD-F2	F2532-02		
SD-F3	F2532-03		
SD-E3	F2532-04		
SD-E2	F2532-05		
SD-E4	F2532-06		

F2546

REPORT NARRATIVE

The following report contains the results of samples submitted to Century Laboratories, Inc. (CLI) by Fred C. Hart for the Auto-Ion project. The samples were received on November 2, 1987 and were analyzed for total metals and cyanide as per EPA-CLP SOW #785.

The following facts should be taken into consideration by the end user of these results:

1. The following ICVS and LCS solutions were used for this report.

ICVS	LCS
ICV #1 0487-ICP Metals	ICV #1-ICP Metals
ICV #3-Sb	ICV #3-Sb
ICV #2(1186)-As,Se	ICV #2(1186)-As,Se
ICV #4(0387)-Pb,Tl	ICV #4(0387)-Pb,Tl
ICV #5-Hg	
WP 179C8-CN	Mid-Range Std.

2. The ICP raw data contains some time gaps. This is due to the fact that samples that did not pertain to this report, but were run on the same analysis, were omitted.

3. Samples SD-A1 and SD-B1-D were reported as less than the CRDL for As (10 ppb) as per EPA-CLP furnace flow chart, SOW# 785.

4. Due to limited sample amount, there is no liquid QC presented in this report for cyanide.

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INORGANIC ANALYSES DATA PACKAGE

Lab Name: Century Laboratories Case No.: F2546
SOW No.: 785/ Q.C. Report No.: FCM-21

Sample Numbers

EPA No.	Lab ID No.	EPA No.	Lab ID No.
SD-B2	F2546-01	SW-A4	F2546-09
SD-E3	F2546-02	SW-A4D	F2546-10
SD-B4	F2546-03	SD-C4	F2546-11
SD-A1	F2546-04	SD-C3	F2546-12
SD-A2	F2546-05	SD-C2	F2546-13
SD-A3	F2546-06	SD-C1	F2546-14
SD-A4	F2546-07	SD-B1	F2546-15
SW-A1	F2546-08	SD-D4	F2546-16

F2552

REPORT NARRATIVE

The following report contains the results of samples submitted to Century Laboratories, Inc. (CLI) by Fred C. Hart for the Auto-Ion project. The samples were received on November 4, 1987 and were analyzed for total metals and cyanide as per EPA-CLP SOW #785. Also, the samples were analyzed for hexavalent chromium, total dissolved solids, and total suspended solids.

The following facts should be taken into consideration by the end user of these results:

1. The following ICVS and LCS solutions were used for this report.

ICVS	LCS
ICV #1 0487-ICP Metals	ICV #1-ICP Metals
ICV #3-Sb	ICV #3-Sb
ICV #2(1186)-As,Se	ICV #2(1186)-As,Se
ICV #4(0387)-Pb,Tl	ICV #4(0387)-Pb,Tl
ICV #5-Hg	
WP 179C8-CN	Mid-Range Std.

2. The ICP raw data contains some time gaps. This is due to the fact that samples that did not pertain to this report, but were run on the same analysis, were omitted.

3. Sample GW-W5 was reported as less than the CRDL for As (10 ppb) as per EPA-CLP furnace flow chart, SOW# 785.

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INORGANIC ANALYSES DATA PACKAGE

Lab Name: CENTURY LABORATORIES Case No.: F2552
SOW No.: 785 Q.C. Report No.: FCH-20

Sample Numbers

EPA No.	Lab ID No.	EPA No.	Lab ID No.
GW-W4	F2552-01	GW-W6	F2552-09
GW-W4D	F2552-02		
GW-W3	F2552-03		
GW-W3A	F2552-04		
GW-W3B	F2552-05		
GW-W1	F2552-06		
GW-W2	F2552-07		
GW-W5	F2552-08		

FORM I

Client Sample No.
SW1-1

Date: 11-20-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2334

SOW NO.: 785

LAB RECEIPT DATE: 10-08-87

LAB SAMPLE ID. NO.: F2334-01

QC REPORT NO.: FCH-01

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	5243	13	Magnesium P	6135 *
2	Antimony P	9.9 UN R	14	Manganese P	287
3	Arsenic F	4.5	15	Mercury	0.1 U
4	Barium P	40	16	Nickel P	7.9
5	Beryllium P	0.9 U	17	Potassium P	[556]E J
6	Cadmium P	0.7 U	18	Selenium F	0.4 U
7	Calcium P	31400	19	Silver P	1.6 U
8	Chromium P	11 *	20	Sodium P	[86]
9	Cobalt P	[2.0]	21	Thallium F	0.4 U
10	Copper P	12	22	Vanadium P	12 E J
11	Iron P	9694	23	Zinc P	40 E J
12	Lead F	23		Percent Solids (%)	92
	Cyanide	0.76UN* R			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 00000

FORM I

Client Sample No.
SW1-2

Date: 11-20-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2334

SOW NO.: 785

LAB RECEIPT DATE: 10-08-87

LAB SAMPLE ID. NO.: F2334-02

QC REPORT NO.: FCH-01

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	3340	13	Magnesium P	6146 *
2	Antimony P	12 UN R	14	Manganese P	276
3	Arsenic F	3.5	15	Mercury	0.1 U
4	Barium P	[31]	16	Nickel P	[4.8]
5	Beryllium P	1.1 U	17	Potassium P	[314] E J
6	Cadmium P	0.8 U	18	Selenium F	0.4 U
7	Calcium P	16300	19	Silver P	1.9 U
8	Chromium P	7.1 *	20	Sodium P	[74]
9	Cobalt P	2.2 U	21	Thallium F	0.4 U
10	Copper P	18	22	Vanadium P	[10] E J
11	Iron P	10500	23	Zinc P	42 E J
12	Lead F	30		Percent Solids (%)	92
	Cyanide	0.42UN* R			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
SW1-3

Date: 11-20-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2334

SOW NO.: 785

LAB RECEIPT DATE: 10-08-87

LAB SAMPLE ID. NO.: F2334-03

QC REPORT NO.: FCH-01

Elements Identified and Measured
++++++++++++++++++++++++++++++

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	7119	13	Magnesium P	3850 *
2	Antimony P	10 UN R	14	Manganese P	1006
3	Arsenic F	10	15	Mercury	0.1 U
4	Barium P	69	16	Nickel P	9.7
5	Beryllium P	0.9 U	17	Potassium P	[324] E J
6	Cadmium P	0.7 U	18	Selenium F	0.4 U
7	Calcium P	9985	19	Silver P	1.6 U
8	Chromium P	15 *	20	Sodium P	[70]
9	Cobalt P	[6.1]	21	Thallium F	0.4 U
10	Copper P	7.5	22	Vanadium P	24 E J
11	Iron P	20400	23	Zinc P	33 E J
12	Lead F	13 s		Percent Solids (%)	87
	Cyanide	0.36UN* R			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 00000

FORM I

Client Sample No.
SW1-4

Date: 11-20-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2334

SOW NO.: 785

LAB RECEIPT DATE: 10-08-87

LAB SAMPLE ID. NO.: F2334-04

QC REPORT NO.: FCH-01

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2719	13	Magnesium P	10200 *
2	Antimony P	9.7 UN R	14	Manganese P	130
3	Arsenic F	[1.4]	15	Mercury	0.1 U
4	Barium P	[1.8]	16	Nickel P	[6.9]
5	Beryllium P	0.9 U	17	Potassium P	[194] E J
6	Cadmium P	0.7 U	18	Selenium F	0.4 U
7	Calcium P	64100	19	Silver P	1.5 U
8	Chromium P	9.4 *	20	Sodium P	[107]
9	Cobalt P	1.8 U	21	Thallium F	0.4 U
10	Copper P	[1.2]	22	Vanadium P	[7.3] E J
11	Iron P	5996	23	Zinc P	14 E J
12	Lead F	2.1		Percent Solids (%)	90
	Cyanide	0.48UN* R			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

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FORM I

Client Sample No.
SW1-5

Date: 11-20-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2334

SOW NO.: 785

LAB RECEIPT DATE: 10-08-87

LAB SAMPLE ID. NO.: F2334-05

QC REPORT NO.: FCH-01

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	881		13	Magnesium P	12100 *
2	Antimony P	12 UN	R	14	Manganese P	122
3	Arsenic F	0.9 U s		15	Mercury	0.1 U
4	Barium P	[3.3]		16	Nickel P	2.4 U
5	Beryllium P	1.1 U		17	Potassium P	[80] E J
6	Cadmium P	0.8 U		18	Selenium F	0.4 U
7	Calcium P	37500		19	Silver P	1.9 U
8	Chromium P	7.0 *		20	Sodium P	[83]
9	Cobalt P	2.2 U		21	Thallium F	0.4 U
10	Copper P	1.2 U		22	Vanadium P	[2.6] E J
11	Iron P	3804		23	Zinc P	13 E J
12	Lead F	1.3 s			Percent Solids (%)	86
	Cyanide	0.62UN+	R			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
SW1-6

Date: 11-20-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2334

SOW NO.: 785

LAB RECEIPT DATE: 10-06-87

LAB SAMPLE ID. NO.: F2334-06

QC REPORT NO.: FCH-01

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1273	13	Magnesium P	11800 *
2	Antimony P	11 UN R	14	Manganese P	110
3	Arsenic F	[1.4]	15	Mercury	0.1 U
4	Barium P	[5.1]	16	Nickel P	[2.7]
5	Beryllium P	1.0 U	17	Potassium P	[155] E J
6	Cadmium P	0.8 U	18	Selenium F	0.4 U
7	Calcium P	43100	19	Silver P	1.8 U
8	Chromium P	9.0 *	20	Sodium P	[73]
9	Cobalt P	2.1 U	21	Thallium F	0.4 U
10	Copper P	[1.4]	22	Vanadium P	[4.5] E J
11	Iron P	4760	23	Zinc P	14 E J
12	Lead F	2.1 s		Percent Solids (%)	88
	Cyanide	0.75UN* R			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-W-2-1a

Date: 01-08-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2487

SOW NO.: 785

LAB RECEIPT DATE: 10-24-87

LAB SAMPLE ID. NO.: F2487-01

QC REPORT NO.: FCH-07

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	935	R	13	Magnesium P	5566 E	J
2	Antimony P	14 UN	R	14	Manganese P	66 N	R
3	Arsenic F	13 U		15	Mercury	0.5 N*	R
4	Barium P	[4.4]	R	16	Nickel P	23 N*	J
5	Beryllium P	1.3 U		17	Potassium P	[143]	
6	Cadmium P	1.0 U		18	Selenium F	0.5 UN	UJ
7	Calcium P	17400	R	19	Silver P	2.2 U	
8	Chromium P	13		20	Sodium P	[279]	
9	Cobalt P	2.6 U		21	Thallium F	5.2 s	
10	Copper P	[1.5]		22	Vanadium P	[2.6]	
11	Iron P	2237	R	23	Zinc P	24 N	J
12	Lead F	9.5			Percent Solids (%)	78	
	Cyanide	5.1	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Ford

Kenneth Ford

FORM I

Client Sample No.
S-W-2-1b

Date: 01-08-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2487

SOW NO.: 785

LAB RECEIPT DATE: 10-24-87

LAB SAMPLE ID. NO.: F2487-02

QC REPORT NO.: FCH-07

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	5182	R	13	Magnesium P	11500 E	J
2	Antimony P	14 UN	R	14	Manganese P	292 N	R
3	Arsenic F	12 U		15	Mercury	0.2 N*	R
4	Barium P	99	R	16	Nickel P	18 N*	J
5	Beryllium P	1.2 U		17	Potassium P	[533]	
6	Cadmium P	0.5 U		18	Selenium F	0.5 UN	UJ
7	Calcium P	66100	R	19	Silver P	2.1 U	
8	Chromium P	38		20	Sodium P	[189]	
9	Cobalt P	2.5 U		21	Thallium F	4.9 s	
10	Copper P	26		22	Vanadium P	[12]	
11	Iron P	10600	R	23	Zinc P	54 N	J
12	Lead P	37 *			Percent Solids (%)	81	
	Cyanide	0.2 U	UJ				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-W-2-2

Date: 01-08-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2487

SDW NO.: 785

LAB RECEIPT DATE: 10-24-87

LAB SAMPLE ID. NO.: F2487-03

QC REPORT NO.: FCH-07

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	6439	13	Magnesium P	4145 E J
2	Antimony P	12 UN R	14	Manganese P	421 N J
3	Arsenic F	11 U	15	Mercury	0.1 UN* R
4	Barium P	75	16	Nickel P	87 N* J
5	Beryllium P	1.1 U	17	Potassium P	1402
6	Cadmium P	0.8 U	18	Selenium F	0.4 UN UJ
7	Calcium P	22300	19	Silver P	1.9 U
8	Chromium P	177	20	Sodium P	4235
9	Cobalt P	2.2 U	21	Thallium F	0.4 U
10	Copper P	28	22	Vanadium P	14
11	Iron P	17600	23	Zinc P	92 N J
12	Lead F	4.7		Percent Solids (%)	90
	Cyanide	0.2 U UJ			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-W-2-3

Date: 01-08-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2487

SOW NO.: 785

LAB RECEIPT DATE: 10-24-87

LAB SAMPLE ID. NO.: F2487-04

QC REPORT NO.: FCH-07

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	4740	13	Magnesium P	1167 E	J
2	Antimony P	12 UN R	14	Manganese P	224 N	J
3	Arsenic F	5.8	15	Mercury	0.1 UN*	R
4	Barium P	[23]	16	Nickel P	[5.3] N*	J
5	Beryllium P	1.1 U	17	Potassium P	[237]	
6	Cadmium P	0.8 U	18	Selenium F	0.4 UN	UJ
7	Calcium P	[777]	19	Silver P	1.9 U	
8	Chromium P	18	20	Sodium P	[62]	
9	Cobalt P	2.2 U	21	Thallium F	4.4 s	
10	Copper P	[3.8]	22	Vanadium P	13	
11	Iron P	101200	23	Zinc P	16 N	
12	Lead F	4.2 s		Percent Solids (%)	90	J
	Cyanide	0.2 U UJ				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-W-2-4

Date: 01-08-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2487

SOW NO.: 785

LAB RECEIPT DATE: 10-24-87

LAB SAMPLE ID. NO.: F2487-05

QC REPORT NO.: FCH-07

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	957		13	Magnesium P	7019 E	J
2	Antimony P	13 UN	R	14	Manganese P	82 N	J
3	Arsenic F	1.2 US+		15	Mercury	0.1 UN*	R
4	Barium P	2.2 U		16	Nickel P	2.6 UN*	UJ
5	Beryllium P	1.2 U		17	Potassium P	[74]	
6	Cadmium P	0.9 U		18	Selenium F	0.5 UN	UJ
7	Calcium P	32500		19	Silver P	2.0 U	
8	Chromium P	13		20	Sodium P	[100]	
9	Cobalt P	2.4 U		21	Thallium F	0.5 U	
10	Copper P	1.3 U		22	Vanadium P	[2.4]	
11	Iron P	3067		23	Zinc P	8.7 N	J
12	Lead F	3.5 s			Percent Solids (%)	85	
	Cyanide	0.2 U	UJ				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-W-2-5

Date: 01-08-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2487

SOW NO.: 785

LAB RECEIPT DATE: 10-24-87

LAB SAMPLE ID. NO.: F2487-06

QC REPORT NO.: FCH-07

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2949		13	Magnesium P	14600 E J
2	Antimony P	12 UN R		14	Manganese P	301 N J
3	Arsenic F	7.4		15	Mercury	0.1 UN* R
4	Barium P	[18]		16	Nickel P	41 N* J
5	Beryllium P	1.1 U		17	Potassium P	[536]
6	Cadmium P	0.8 U		18	Selenium F	0.4 UN UJ
7	Calcium P	66000		19	Silver P	1.8 U
8	Chromium P	27		20	Sodium P	[101]
9	Cobalt P	[4.7]		21	Thallium F	0.4 U
10	Copper P	6.4		22	Vanadium P	[10]
11	Iron P	9458		23	Zinc P	24 N J
12	Lead F	5.5			Percent Solids (%)	94
	Cyanide	0.2 U UJ				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000008

FORM I

Client Sample No.
S-W-3b-1

Date: 01-18-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2456

SOW NO.: 785

LAB RECEIPT DATE: 10-22-87

LAB SAMPLE ID. NO.: F2456-01

QC REPORT NO.: FCH-10

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	4464	13	Magnesium P	15500
2	Antimony P	12 U	14	Manganese P	243
3	Arsenic F	4.5 s	15	Mercury	0.2
4	Barium P	45	16	Nickel P	333
5	Beryllium P	1.1 U	17	Potassium P	[728]
6	Cadmium P	4.8	18	Selenium F	0.4 UN UJ
7	Calcium P	47600	19	Silver P	1.9 U
8	Chromium P	1010	20	Sodium P	[146]
9	Cobalt P	[9.2]	21	Thallium F	0.4 U
10	Copper P	445	22	Vanadium P	14
11	Iron P	14600	23	Zinc P	631
12	Lead P	70		Percent Solids (%)	90
	Cyanide	0.2 UN R			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-W-3b-2

Date: 01-18-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2456

SOW NO.: 785

LAB RECEIPT DATE: 10-22-87

LAB SAMPLE ID. NO.: F2456-02

QC REPORT NO.: FCH-10

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2033	13	Magnesium P	[776]
2	Antimony P	13 U	14	Manganese P	47
3	Arsenic F	24 U	15	Mercury	1.8
4	Barium P	71	16	Nickel P	112
5	Beryllium P	1.2 U	17	Potassium P	2383
6	Cadmium P	0.9 U	18	Selenium F	4.7 UN UJ
7	Calcium P	13900	19	Silver P	2.1 U
8	Chromium P	681	20	Sodium P	[143]
9	Cobalt P	2.4 U	21	Thallium F	0.5 U
10	Copper P	222	22	Vanadium P	14
11	Iron P	42700	23	Zinc P	57
12	Lead P	28		Percent Solids (%)	85
	Cyanide	0.2 UN R			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-W-3b-3a

Date: 01-18-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2456

SOW NO.: 785

LAB RECEIPT DATE: 10-22-87

LAB SAMPLE ID. NO.: F2456-03

QC REPORT NO.: FCH-10

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	8912		13	Magnesium P	[1220]
2	Antimony P	14 U		14	Manganese P	184
3	Arsenic F	38		15	Mercury	4.1
4	Barium P	145	R	16	Nickel P	651
5	Beryllium P	1.3 U		17	Potassium P	[1118]
6	Cadmium P	0.9 U		18	Selenium F	5.1 UN UJ
7	Calcium P	29700		19	Silver P	2.2 U
8	Chromium P	1798		20	Sodium P	[225]
9	Cobalt P	[12]		21	Thallium F	0.5 U
10	Copper P	444		22	Vanadium P	16
11	Iron P	26900		23	Zinc P	720
12	Lead F	60			Percent Solids (%)	78
	Cyanide	0.3 UN	R			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-W-3b-3b

Date: 01-18-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2456

SOW NO.: 785

LAB RECEIPT DATE: 10-22-87

LAB SAMPLE ID. NO.: F2456-04

QC REPORT NO.: FCH-10

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	7198	13	Magnesium P	[986]
2	Antimony P	14 U	14	Manganese P	135
3	Arsenic F	25 U	15	Mercury	5.1
4	Barium P	** R	16	Nickel P	431
5	Beryllium P	1.2 U	17	Potassium P	[946]
6	Cadmium P	0.9 U	18	Selenium F	0.5 UN UJ
7	Calcium P	22200	19	Silver P	2.1 U
8	Chromium P	2116	20	Sodium P	[107]
9	Cobalt P	[9.8]	21	Thallium F	0.5 U
10	Copper P	663	22	Vanadium P	16
11	Iron P	24500	23	Zinc P	506
12	Lead P	66		Percent Solids (%)	81
	Cyanide	5.3 N J			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-W-3b-4

Date: 01-18-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2456

SOW NO.: 785

LAB RECEIPT DATE: 10-22-87

LAB SAMPLE ID. NO.: F2456-05

QC REPORT NO.: FCH-10

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	3098	13	Magnesium P	1323	
2	Antimony P	13 U	14	Manganese P	64	
3	Arsenic F	24 U	15	Mercury	0.4	
4	Barium P	[30]	16	Nickel P	477	
5	Beryllium P	1.2 U	17	Potassium P	[445]	
6	Cadmium P	0.9 U	18	Selenium F	0.5 UN	UJ
7	Calcium P	5589	19	Silver P	2.0 U	
8	Chromium P	1863	20	Sodium P	[72]	
9	Cobalt P	[5.2]	21	Thallium F	0.5 U	
10	Copper P	1135	22	Vanadium P	[8.2]	
11	Iron P	13600	23	Zinc P	111	
12	Lead F	21 s		Percent Solids (%)	85	
	Cyanide	0.2 UN R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
SW3B-5

Date: 01-14-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2482

SOW NO.: 785

LAB RECEIPT DATE: 10-23-87

LAB SAMPLE ID. NO.: F2482-02

QC REPORT NO.: FCH-09

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2375 *		13	Magnesium P	12100 E	J
2	Antimony P	12 UN	UJ	14	Manganese P	194	
3	Arsenic F	4.0 N	J	15	Mercury	0.1 N *	J
4	Barium P	[9.8]		16	Nickel P	184	
5	Beryllium P	1.1 U		17	Potassium P	[241]	
6	Cadmium P	0.6 U		18	Selenium F	0.4 UN	UJ
7	Calcium P	42000		19	Silver P	1.9 U	
8	Chromium P	205		20	Sodium P	[53]	
9	Cobalt P	[3.8]		21	Thallium F	0.4 U	
10	Copper P	47		22	Vanadium P	[9.4]	
11	Iron P	9293 * E		23	Zinc P	212	
12	Lead F	3.4			Percent Solids (%)	90	
	Cyanide	0.2 UN	UJ				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000004

FORM I

Client Sample No.
SWB3-6

Date: 01-14-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2482

SOW NO.: 785

LAB RECEIPT DATE: 10-23-87

LAB SAMPLE ID. NO.: F2482-01

QC REPORT NO.: FCH-09

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	6855 *		13	Magnesium P	25500 E	J
2	Antimony P	12 UN	UJ	14	Manganese P	283	
3	Arsenic F	[2.2] N	J	15	Mercury	0.1 UN *	R
4	Barium P	[30]		16	Nickel P	16	
5	Beryllium P	1.1 U		17	Potassium P	1539	
6	Cadmium P	0.8 U		18	Selenium F	0.4 UN	UJ
7	Calcium P	72200		19	Silver P	1.9 U	
8	Chromium P	26		20	Sodium P	[130]	
9	Cobalt P	[6.0]		21	Thallium F	0.4 U	
10	Copper P	7.8		22	Vanadium P	17	
11	Iron P	12800 *	E	23	Zinc P	34	
12	Lead F	4.0			Percent Solids (%)	69	
	Cyanide	0.2 UN	UJ				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-W-3B-7

Date: 01-27-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2510

SOW NO.: 785

LAB RECEIPT DATE: 10-27-87

LAB SAMPLE ID. NO.: F2510-01

QC REPORT NO.: FCH-16

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1170 *		13	Magnesium P	7500
2	Antimony P	22 N	J	14	Manganese P	56
3	Arsenic F	[1.2]		15	Mercury	0.1 UN
4	Barium P	[4.2]		16	Nickel P	[4.4]
5	Beryllium P	1.2 U		17	Potassium P	[185]
6	Cadmium P	0.9 U		18	Selenium F	0.5 UN UJ
7	Calcium P	23100		19	Silver P	2.0 U
8	Chromium P	16		20	Sodium P	[57]
9	Cobalt P	2.3 U		21	Thallium F	0.5 U
10	Copper P	1.3 U		22	Vanadium P	[5.5]
11	Iron P	2650 *		23	Zinc P	8.7
12	Lead F	1.2 U			Percent Solids (%)	85
	Cyanide	0.2 U	UJ			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes xplaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

mments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 000000

FORM I

Client Sample No.
S-W-3B-6

Date: 01-27-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2510

SOW NO.: 785

LAB RECEIPT DATE: 10-28-87

LAB SAMPLE ID. NO.: F2510-02

QC REPORT NO.: FCH-16

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	691 *		13	Magnesium P	4260
2	Antimony P	13 UN	UJ	14	Manganese P	41
3	Arsenic F	1.0 U		15	Mercury	0.1 UN
4	Barium P	[2.4]		16	Nickel P	2.5 U
5	Beryllium P	1.2 U		17	Potassium P	[82]
6	Cadmium P	0.9 U		18	Selenium F	0.5 UN UJ
7	Calcium P	17200		19	Silver P	2.1 U
8	Chromium P	11		20	Sodium P	[51]
9	Cobalt P	2.4 U		21	Thallium F	0.5 U
10	Copper P	[2.9]		22	Vanadium P	0.6 U
11	Iron P	1630 *		23	Zinc P	[4.1]
12	Lead F	0.5 U			Percent Solids (%)	83
	Cyanide	0.2 U	UJ			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000002

FORM I

Client Sample No.
S-W-38-9

Date: 01-27-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2510

SOW NO.: 785

LAB RECEIPT DATE: 10-27-87

LAB SAMPLE ID. NO.: F2510-03

QC REPORT NO.: FCH-16

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	591 *		13	Magnesium P	4710	
2	Antimony P	13 UN	UJ	14	Manganese P	44	
3	Arsenic F	[2.2]		15	Mercury	0.1 UN	
4	Barium P	[2.4]		16	Nickel P	[3.6]	
5	Beryllium P	1.2 U		17	Potassium P	[80]	
6	Cadmium P	0.9 U		18	Selenium F	0.5 UN	UJ
7	Calcium P	15900		19	Silver P	8.5	
8	Chromium P	13		20	Sodium P	[128]	
9	Cobalt P	2.4 U		21	Thallium F	0.5 U	
10	Copper P	[2.2]		22	Vanadium P	[1.0]	
11	Iron P	1580 *		23	Zinc P	[4.1]	
12	Lead F	0.5 U			Percent Solids (%)	83	
	Cyanide	0.2 U	UJ				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000005

FORM I

Client Sample No.
S-W-30-10

Date: 01-27-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2510

SOW NO.: 785

LAB RECEIPT DATE: 10-27-87

LAB SAMPLE ID. NO.: F2510-04

QC REPORT NO.: FCH-16

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	542 *		13	Magnesium P	4510
2	Antimony P	13 UN	UJ	14	Manganese P	41
3	Arsenic F	1.0 U		15	Mercury	0.1 UN
4	Barium P	[2.6]		16	Nickel P	2.6 U
5	Beryllium P	1.2 U		17	Potassium P	[61]
6	Cadmium P	0.5 U		18	Selenium F	0.5 UN UJ
7	Calcium P	15900		19	Silver P	2.1 U
8	Chromium P	12		20	Sodium P	[**]
9	Cobalt P	2.4 U		21	Thallium F	0.5 U
10	Copper P	[1.4]		22	Vanadium P	[1.4]
11	Iron P	1540 *		23	Zinc P	[4.1]
12	Lead F	0.5 U			Percent Solids (%)	84
	Cyanide	0.2 U	UJ			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000003

FORM 1

Client Sample No.
S-W-3E-11

Date: 01-27-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2510

SOW NO.: 785

LAB RECEIPT DATE: 10-28-87

LAB SAMPLE ID. NO.: F2510-05

QC REPORT NO.: FCH-16

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	534 *		13	Magnesium P	5820
2	Antimony P	13 UN	UJ	14	Manganese P	56
3	Arsenic F	0.9 U		15	Mercury	0.1 UN
4	Barium P	[4.5]		16	Nickel P	[2.6]
5	Beryllium P	1.2 U		17	Potassium P	[108]
6	Cadmium P	0.9 U		18	Selenium F	0.5 UN UJ
7	Calcium P	20700		19	Silver P	2.1 U
8	Chromium P	13		20	Sodium P	[128]
9	Cobalt P	2.4 U		21	Thallium F	0.5 U
10	Copper P	1.3 U		22	Vanadium P	[2.8]
11	Iron P	2480 *		23	Zinc P	7.3
12	Lead F	0.5 U			Percent Solids (%)	85
	Cyanide	0.2 U	UJ			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-W-3B-12

Date: 01-27-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2510

SOW NO.: 785

LAB RECEIPT DATE: 10-29-87

LAB SAMPLE ID. NO.: F2510-06

QC REPORT NO.: FCH-16

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	925 *		13	Magnesium P	4820
2	Antimony P	13 UN	UJ	14	Manganese P	49
3	Arsenic F	1.0 U		15	Mercury	0.1 UN
4	Barium P	[5.1]		16	Nickel P	2.7 U
5	Beryllium P	1.2 U		17	Potassium P	[131]
6	Cadmium P	0.9 U		18	Selenium F	0.5 UN UJ
7	Calcium P	15900		19	Silver P	2.1 U
8	Chromium P	14		20	Sodium P	[264]
9	Cobalt P	2.4 U		21	Thallium F	0.5 U
10	Copper P	1.4 U		22	Vanadium P	[3.1]
11	Iron P	2120 *		23	Zinc P	5.6
12	Lead F	0.5 U			Percent Solids (%)	83
	Cyanide	0.2 U	UJ			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000008

FORM I

Client Sample No.
S-W-4-1

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-16

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	3624 *		13	Magnesium P	7293 E	J
2	Antimony P	12 UN	R	14	Manganese P	190 N*	J
3	Arsenic F	14 sN	J	15	Mercury	0.3	J
4	Barium P	206 N	J	16	Nickel P	298 N	J
5	Beryllium P	1.0 U		17	Potassium P	[710]	
6	Cadmium P	2.4		18	Selenium F	4.2 UN	UJ
7	Calcium P	29600 *		19	Silver P	1.8 U	
8	Chromium P	1601 *		20	Sodium P	[201]	
9	Cobalt P	[5.0]		21	Thallium F	0.4 UN	UJ
10	Copper P	413		22	Vanadium P	14	
11	Iron P	22200 *		23	Zinc P	174 *NE	J
12	Lead F	184 N	J		Percent Solids (%)	90	
	Cyanide	72 N	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 000013

FORM I

Client Sample No.
S-W-4-2

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-02

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2165 *		13	Magnesium P	[363] E	J
2	Antimony P	13 UN	R	14	Manganese P	30 N*	J
3	Arsenic F	9.4 sN	J	15	Mercury	0.2	J
4	Barium P	118 N	J	16	Nickel P	108 N	J
5	Beryllium P	1.2 U		17	Potassium P	[540]	
6	Cadmium P	0.9 U		18	Selenium F	[0.5] N	J
7	Calcium P	1549 *		19	Silver P	2.0 U	
8	Chromium P	1050 *		20	Sodium P	[162]	
9	Cobalt P	2.3 U		21	Thallium F	0.5 UN	UJ
10	Copper P	467		22	Vanadium P	14	
11	Iron P	19300 *		23	Zinc P	113 *NE	J
12	Lead P	45 N	J		Percent Solids (%)	83	
	Cyanide	33 N	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 000007

FORM I

Client Sample No.
S-W4-3

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-29

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1533 *		13	Magnesium P	[532] E	J
2	Antimony P	12 UN	R	14	Manganese P	63 N*	J
3	Arsenic F	5.0 N	J	15	Mercury	0.2	J
4	Barium P	49 N	J	16	Nickel P	184 N	J
5	Beryllium P	1.1 U		17	Potassium P	[223]	
6	Cadmium P	1.4		18	Selenium F	0.4 UN	UJ
7	Calcium P	2111 *		19	Silver P	1.9 U	
8	Chromium P	111 *		20	Sodium P	[99]	
9	Cobalt P	[2.6]		21	Thallium F	0.4 UN	UJ
10	Copper P	62		22	Vanadium P	[5.7]	
11	Iron P	9548 *		23	Zinc P	247 *NE	J
12	Lead P	43 N	J		Percent Solids (%)	92	
	Cyanide	2.7 N	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-W-4-4A

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

S_J NO.: 785

LAB RECEIPT DATE: 10-17-87

L_ SAMPLE ID. NO.: F2429-11

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

M_rix: Soil

mg/kg dry weight

1	Aluminum P	2775 *		13	Magnesium P	[675] E	J
2	Antimony P	13 UN	R	14	Manganese P	109 N*	R
3	Arsenic F	5.8 sN	J	15	Mercury	0.1 U	UJ
4	Barium P	[35]N	J	16	Nickel P	63 N	J
5	Beryllium P	1.2 U		17	Potassium P	[649]	
6	Cadmium P	0.9 U		18	Selenium F	0.5 UN	UJ
7	Calcium P	4593 *		19	Silver P	2.1 U	
8	Chromium P	990 *		20	Sodium P	[883]	
9	Cobalt P	2.4 U		21	Thallium F	0.5 U N	UJ
10	Copper P	41		22	Vanadium P	[4.8]	
11	Iron P	10200 *		23	Zinc P	319 *NE	R
12	Lead F	9.6			Percent Solids (%)	82	
	Cyanide	5.8 N	J				

F_ reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Co_ents: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 000014

FORM I

Client Sample No.
S-W-4-4B

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-08

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1352 *		13	Magnesium P	[162] E	J
2	Antimony P	11 UN	R	14	Manganese P	11 N*	R
3	Arsenic F	3.6 N	J	15	Mercury	[0.1]	J
4	Barium P	[22]N	J	16	Nickel P	22 N	J
5	Beryllium P	1.0 U		17	Potassium P	[547]	
6	Cadmium P	0.7 U		18	Selenium F	0.4 UN	UJ
7	Calcium P	2538 *		19	Silver P	1.7 U	
8	Chromium P	887 *		20	Sodium P	[767]	
9	Cobalt P	2.0 U		21	Thallium F	0.4 UN	UJ
10	Copper P	36		22	Vanadium P	[3.0]	
11	Iron P	7634 *		23	Zinc P	34 *NE	R
12	Lead F	5.2 s			Percent Solids (%)	80	
	Cyanide	7.7 N	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Kenneth Bond

Lab Manager

Kenneth Bond

FORM I

Client Sample No.
S-W-4-5

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

W NO.: 785

LAB RECEIPT DATE: 10-17-87

AB SAMPLE ID. NO.: F2429-26

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

trix: Soil

mg/kg dry weight

1	Aluminum P	4432 *		13	Magnesium P	8299 E	J
2	Antimony P	19 UN	R	14	Manganese P	1838 N*	J
3	Arsenic F	19 N	J	15	Mercury	0.3	J
4	Barium P	640 N	J	16	Nickel P	[4.9]N	J
5	Beryllium P	1.8 U		17	Potassium P	[140]	
6	Cadmium P	1.3 U		18	Selenium F	0.7 U N	UJ
7	Calcium P	133600 *		19	Silver P	3.0 U	
8	Chromium P	22 *		20	Sodium P	2597	
9	Cobalt P	3.5 U		21	Thallium F	0.7 UN	UJ
10	Copper P	[3.5]		22	Vanadium P	[7.7]	
11	Iron P	29800 *		23	Zinc P	39 *NE	J
12	Lead P	49 N s	J		Percent Solids (%)	48	
	Cyanide	0.4 UN	R				

F reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000039

FORM I

Client Sample No.
S-W-4-6

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-19

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2074 *		13	Magnesium P	15100 E	J
2	Antimony P	9.9 UN	R	14	Manganese P	192 N*	J
3	Arsenic F	1.8 UN	J	15	Mercury	0.1 U	UJ
4	Barium P	[6.1]N	J	16	Nickel P	52 N	J
5	Beryllium P	0.9 U		17	Potassium P	[134]	
6	Cadmium P	0.7 U		18	Selenium F	0.4 UN	UJ
7	Calcium P	67000 *		19	Silver P	1.6 U	
8	Chromium P	68 *		20	Sodium P	[154]	
9	Cobalt P	1.8 U		21	Thallium F	0.4 UN	UJ
10	Copper P	14		22	Vanadium P	[5.2]	
11	Iron P	8422 *		23	Zinc P	78 *NE	J
12	Lead F	2.5			Percent Solids (%)	86	
	Cyanide	1.4 N	J				

or reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes xplaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

omments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000022

FORM I

Client Sample No.
S-W-5-1

Date: 01-06-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2379

SOW NO.: 785

LAB RECEIPT DATE: 10-14-87

LAB SAMPLE ID. NO.: F2379-08

QC REPORT NO.: FCH-06

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2874		13	Magnesium P	[1048] E	J
2	Antimony P	12 UN	R	14	Manganese P	71 N	J
3	Arsenic F	16		15	Mercury	0.5 N*	J
4	Barium P	142		16	Nickel P	81 N	J
5	Beryllium P	1.1 U		17	Potassium P	[685]	
6	Cadmium P	0.8 U		18	Selenium F	0.4 U	
7	Calcium P	4181		19	Silver P	1.9 U	
8	Chromium P	858 *		20	Sodium P	[134]	R
9	Cobalt P	2.2 U		21	Thallium F	4.5 U	
10	Copper P	339		22	Vanadium P	11	
11	Iron P	16400		23	Zinc P	63 N	
12	Lead P	190 *			Percent Solids (%)	89	J
	Cyanide	61	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000010

FORM I

Client Sample No.
S-W-5-2

Date: 01-06-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2379

SOW NO.: 785

LAB RECEIPT DATE: 10-14-87

LAB SAMPLE ID. NO.: F2379-09

QC REPORT NO.: FCH-06

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	3518		13	Magnesium P	1340 E	J
2	Antimony P	13 UN	R	14	Manganese P	88 N	J
3	Arsenic F	23 s+		15	Mercury	0.6 N*	J
4	Barium P	128		16	Nickel P	67 N	J
5	Beryllium P	1.2 U		17	Potassium P	[726]	
6	Cadmium P	0.9 U		18	Selenium F	0.5 U	
7	Calcium P	6591		19	Silver P	2.0 U	
8	Chromium P	1045 *		20	Sodium P	[149]	R
9	Cobalt P	2.3 U		21	Thallium F	4.6 U	
10	Copper P	357		22	Vanadium P	14	
11	Iron P	19600		23	Zinc P	54 N	J
12	Lead F	109 *			Percent Solids (%)	86	
	Cyanide	66	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-W-5-4a

Date: 01-06-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2379

SOW NO.: 785

LAB RECEIPT DATE: 10-14-87

LAB SAMPLE ID. NO.: F2379-10

QC REPORT NO.: FCH-06

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	4355		13	Magnesium P	3112 E	J
2	Antimony P	14 UN	R	14	Manganese P	90 N	J
3	Arsenic F	13 U	R	15	Mercury	0.2 N*	J
4	Barium P	371		16	Nickel P	2957 N	J
5	Beryllium P	1.3 U		17	Potassium P	2241	
6	Cadmium P	2.7		18	Selenium F	0.5 U	
7	Calcium P	10600		19	Silver P	2.2 U	
8	Chromium P	2508 *		20	Sodium P	1606	
9	Cobalt P	[6.2]		21	Thallium F	5.2 U	
10	Copper P	1258		22	Vanadium P	15	
11	Iron P	20900		23	Zinc P	469 N	J
12	Lead P	374 *			Percent Solids (%)	77	
	Cyanide	487	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-W-S-4b

Date: 1-6-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2379

SOW NO.: 785

LAB RECEIPT DATE: 10-14-87

LAB SAMPLE ID. NO.: F2379-11

QC REPORT NO.: FCH-06

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	5762		13	Magnesium P	2174 E	J
2	Antimony P	14 UN	R	14	Manganese P	89 N	J
3	Arsenic F	36	R	15	Mercury	0.2 N*	J
4	Barium P	392		16	Nickel P	1521 N	J
5	Beryllium P	1.3 U		17	Potassium P	3361	
6	Cadmium P	[1.0]		18	Selenium F	0.5 U	
7	Calcium P	11400		19	Silver P	2.2 U	
8	Chromium P	1782 *		20	Sodium P	2554	
9	Cobalt P	[2.8]		21	Thallium F	5.0 U	
10	Copper P	1396		22	Vanadium P	21	
11	Iron P	25000		23	Zinc P	228 N	R
12	Lead P	833 *			Percent Solids (%)	80	
	Cyanide	574	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-W-5-5

Date: 1-6-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2379

SOW NO.: 785

LAB RECEIPT DATE: 10-14-87

LAB SAMPLE ID. NO.: F2379-12

QC REPORT NO.: FCH-06

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	4525	
2	Antimony P	21 UN	R
3	Arsenic F	20	
4	Barium P	76	
5	Beryllium P	1.9 U	
6	Cadmium P	1.4 U	
7	Calcium P	111800	
8	Chromium P	33	
9	Cobalt P	[4.6]	
10	Copper P	13	
11	Iron P	21600	
12	Lead F	7.6	
	Cyanide	24	J
13	Magnesium P	5576 E	J
14	Manganese P	1039 N	J
15	Mercury	0.2 UN*	R
16	Nickel P	35 N	J
17	Potassium P	[688]	
18	Selenium F	[1.8]s +	R
19	Silver P	3.3 U	
20	Sodium P	[1196]	
21	Thallium F	0.8 U	
22	Vanadium P	[9.5]	
23	Zinc P	67 N	J
	Percent Solids (%)	52	

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-W-S-6

Date: 01-09-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2414

SOW NO.: 785

LAB RECEIPT DATE: 10-16-87

LAB SAMPLE ID. NO.: F2414-10

QC REPORT NO.: FCH-08

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	3399 *		13	Magnesium P	17500	
2	Antimony P	13 UN	UJ	14	Manganese P	180	
3	Arsenic F	9.7 sN	J	15	Mercury	0.1 UN	
4	Barium P	[6.0]		16	Nickel P	155	
5	Beryllium P	1.2 U		17	Potassium P	[234]	
6	Cadmium P	0.9 U		18	Selenium F	0.5 UN	UJ
7	Calcium P	76000		19	Silver P	2.0 U	
8	Chromium P	200		20	Sodium P	[79]	
9	Cobalt P	[4.4]		21	Thallium F	0.5 U	
10	Copper P	74		22	Vanadium P	12	
11	Iron P	12600 *		23	Zinc P	106	
12	Lead F	5.1			Percent Solids (%)	66	
	Cyanide	0.2UN	UJ				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-W-5-7

Date: 01-09-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2414

SOW NO.: 785

LAB RECEIPT DATE: 10-16-87

LAB SAMPLE ID. NO.: F2414-11

QC REPORT NO.: FCH-06

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2517 *		13	Magnesium P	19900	
2	Antimony P	12 UN	UJ	14	Manganese P	277	
3	Arsenic F	7.2 N	J	15	Mercury	0.1 UN	
4	Barium P	[11]		16	Nickel P	68	
5	Beryllium P	1.1 U		17	Potassium P	[230]	
6	Cadmium P	0.8 U		18	Selenium F	0.4 UN	UJ
7	Calcium P	95300		19	Silver P	1.9 U	
8	Chromium P	107		20	Sodium P	[85]	
9	Cobalt P	[2.6]		21	Thallium F	0.4 U	
10	Copper P	35		22	Vanadium P	[7.7]	
11	Iron P	7590 *		23	Zinc P	66	
12	Lead F	3.6			Percent Solids (%)	54	
	Cyanide	0.2UN	UJ				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000013

FORM 1

Client Sample No.
S-W-6-1

Date: 01-09-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2414

SOW NO.: 785

LAB RECEIPT DATE: 10-16-87

LAB SAMPLE ID. NO.: F2414-01

QC REPORT NO.: FCH-08

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	4167 *		13	Magnesium P	6667	
2	Antimony P	12 UN	UJ	14	Manganese P	225	
3	Arsenic F	21 N	J	15	Mercury	0.1 UN	
4	Barium P	102		16	Nickel P	54	
5	Beryllium P	1.3		17	Potassium P	[354]	
6	Cadmium P	1.2		18	Selenium F	2.0 N	J
7	Calcium P	16300		19	Silver P	3.3	
8	Chromium P	479		20	Sodium P	[201]	
9	Cobalt P	[9.8]		21	Thallium F	0.4 U	
10	Copper P	105		22	Vanadium P	15	
11	Iron P	10600 *		23	Zinc P	60	
12	Lead P	109			Percent Solids (%)	91	
	Cyanide	74N	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-W-6-2

Date: 01-09-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2414

SOW NO.: 785

LAB RECEIPT DATE: 10-16-87

LAB SAMPLE ID. NO.: F2414-02

QC REPORT NO.: FCH-08

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	4929 *		13	Magnesium P	3512	
2	Antimony P	12 UN	UJ	14	Manganese P	500	
3	Arsenic F	27 N	J	15	Mercury	0.2 N	J
4	Barium P	51		16	Nickel P	62	
5	Beryllium P	1.1		17	Potassium P	[323]	
6	Cadmium P	1.4		18	Selenium F	0.4 UNs	UJ
7	Calcium P	11400		19	Silver P	2.5	
8	Chromium P	150		20	Sodium P	[112]	
9	Cobalt P	[9.8]		21	Thallium F	0.4 U	
10	Copper P	50		22	Vanadium P	14	
11	Iron P	12000 *		23	Zinc P	71	
12	Lead F	61			Percent Solids (%)	90	
	Cyanide	0.2UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-W-6-3

Date: 01-09-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2414

SOW NO.: 785

LAB RECEIPT DATE: 10-16-87

LAB SAMPLE ID. NO.: F2414-03

QC REPORT NO.: FCH-08

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	7313 *		13	Magnesium P	1751	
2	Antimony P	12 UN	UJ	14	Manganese P	237	
3	Arsenic F	11 UN		15	Mercury	0.2 N	J
4	Barium P	95		16	Nickel P	41	
5	Beryllium P	1.7		17	Potassium P	[912]	
6	Cadmium P	1.5		18	Selenium F	0.4 UNs+	UJ
7	Calcium P	17900		19	Silver P	1.9 U	
8	Chromium P	157		20	Sodium P	[372]	
9	Cobalt P	[9.0]		21	Thallium F	4.4 U	
10	Copper P	69		22	Vanadium P	32	
11	Iron P	31400 *		23	Zinc P	61	
12	Lead P	38			Percent Solids (%)	91	
	Cyanide	0.2UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager: Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-W-6-4

Date: 01-09-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2414

SOW NO.: 785

LAB RECEIPT DATE: 10-16-87

LAB SAMPLE ID. NO.: F2414-04

QC REPORT NO.: FCH-08

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	4638 *		13	Magnesium P	[242]	
2	Antimony P	14 UN	UJ	14	Manganese P	30	
3	Arsenic F	11 s+N	R	15	Mercury	0.1 UN	
4	Barium P	222		16	Nickel P	484	
5	Beryllium P	1.4		17	Potassium P	1533	
6	Cadmium P	[0.9]		18	Selenium F	0.5 UN	UJ
7	Calcium P	1936		19	Silver P	2.9	
8	Chromium P	986		20	Sodium P	[580]	
9	Cobalt P	[7.4]		21	Thallium F	4.9 U	
10	Copper P	633		22	Vanadium P	29	
11	Iron P	25000 *		23	Zinc P	65	
12	Lead F	37			Percent Solids (%)	81	
	Cyanide	0.2UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000006

FORM I

Client Sample No.
S-W-6-5

Date: 01-09-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2414

SOW NO.: 785

LAB RECEIPT DATE: 10-16-87

LAB SAMPLE ID. NO.: F2414-05

QC REPORT NO.: FCH-08

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	10600 *		13	Magnesium P	7309
2	Antimony P	15 UN	UJ	14	Manganese P	826
3	Arsenic F	15 N	J	15	Mercury	0.1 UN
4	Barium P	566		16	Nickel P	31
5	Beryllium P	1.4 U		17	Potassium P	[711]
6	Cadmium P	[1.3]		18	Selenium F	1.4 U UJ
7	Calcium P	57300		19	Silver P	2.4 U
8	Chromium P	120		20	Sodium P	[492]
9	Cobalt P	15		21	Thallium F	0.5 U
10	Copper P	19		22	Vanadium P	31
11	Iron P	46500 *		23	Zinc P	77
12	Lead P	30			Percent Solids (%)	74
	Cyanide	0.2UN	R			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-W-6-6a

Date: 01-09-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2414

SOW NO.: 785

LAB RECEIPT DATE: 10-16-87

LAB SAMPLE ID. NO.: F2414-06

QC REPORT NO.: FCH-08

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	3072 *		13	Magnesium P	6146
2	Antimony P	17 UN	UJ	14	Manganese P	650
3	Arsenic F	12 sN	J	15	Mercury	0.1 UN
4	Barium P	[38]		16	Nickel P	16
5	Beryllium P	1.6 U		17	Potassium P	[307]
6	Cadmium P	1.2 U		18	Selenium F	[1.3]N J
7	Calcium P	76400		19	Silver P	2.7 U
8	Chromium P	70		20	Sodium P	[240]
9	Cobalt P	[4.1]		21	Thallium F	0.6 U
10	Copper P	[6.6]		22	Vanadium P	[11]
11	Iron P	11400 *		23	Zinc P	23
12	Lead F	12			Percent Solids (%)	64
	Cyanide	0.2UN	R			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-W-6-6b

Date: 01-09-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2414

SOW NO.: 785

LAB RECEIPT DATE: 10-16-87

LAB SAMPLE ID. NO.: F2414-07

QC REPORT NO.: FCH-08

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	4173 *		13	Magnesium P	6193	
2	Antimony P	18 UN	UJ	14	Manganese P	712	
3	Arsenic F	7.4 N	J	15	Mercury	0.2 UN	
4	Barium P	[43]		16	Nickel P	18	
5	Beryllium P	1.7 U		17	Potassium P	[432]	
6	Cadmium P	1.2 U		18	Selenium F	[1.3]N	J
7	Calcium P	80500		19	Silver P	2.9 U	
8	Chromium P	159		20	Sodium P	[360]	
9	Cobalt P	[5.7]		21	Thallium F	0.7 U	
10	Copper P	11		22	Vanadium P	[15]	
11	Iron P	13200 *		23	Zinc P	26	
12	Lead F	5.0			Percent Solids (%)	60	
	Cyanide	0.2UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-W-6-7

Date: 01-09-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2414

SOW NO.: 785

LAB RECEIPT DATE: 10-16-87

LAB SAMPLE ID. NO.: F2414-08

QC REPORT NO.: FCH-08

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2985 *		13	Magnesium P	8501	
2	Antimony P	13 UN	UJ	14	Manganese P	205	
3	Arsenic F	12 UN		15	Mercury	0.1 UN	
4	Barium P	[23]		16	Nickel P	35	
5	Beryllium P	1.2 U		17	Potassium P	[346]	
6	Cadmium P	0.9 U		18	Selenium F	0.5 UN	UJ
7	Calcium P	42900		19	Silver P	2.0 U	
8	Chromium P	272		20	Sodium P	[263]	
9	Cobalt P	[4.4]		21	Thallium F	0.5 U	
10	Copper P	27		22	Vanadium P	14	
11	Iron P	9139 *		23	Zinc P	22	
12	Lead P	24			Percent Solids (%)	86	
	Cyanide	0.2UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-W-L-F

Date: 01-09-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2414

SOW NO.: 785

LAB RECEIPT DATE: 10-16-87

LAB SAMPLE ID. NO.: F2414-03

QC REPORT NO.: FCH-08

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1734 *		13	Magnesium P	10600	
2	Antimony P	12 UN	UJ	14	Manganese P	112	
3	Arsenic F	2.2 UN		15	Mercury	0.1 UN	
4	Barium P	[2.9]		16	Nickel P	15	
5	Beryllium P	1.1 U		17	Potassium P	[167]	
6	Cadmium P	[0.9]		18	Selenium F	0.4 UN	UJ
7	Calcium P	58100		19	Silver P	1.9 U	
8	Chromium P	32		20	Sodium P	[122]	
9	Cobalt P	[3.7]		21	Thallium F	0.4 U	
10	Copper P	5.5		22	Vanadium P	[5.0]	
11	Iron P	6175 *		23	Zinc P	13	
12	Lead F	2.9			Percent Solids (%)	91	
	Cyanide	0.2UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000031

FORM I

Client Sample No.
S-B-1-1

Date: 11-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2348

SOW NO.: 785

LAB RECEIPT DATE: 10-08-87

LAB SAMPLE ID. NO.: F2348-01

QC REPORT NO.: FCH-02

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2672	
2	Antimony P	13 UN	UJ
3	Arsenic F	80	
4	Barium P	131	
5	Beryllium P	1.1 U	
6	Cadmium P	0.8 U	
7	Calcium P	16200	
8	Chromium P	2433 *E	J
9	Cobalt P	2.3 U	
10	Copper P	181	
11	Iron P	45200	
12	Lead P	928 N	J
	Cyanide	4.1	J
13	Magnesium P	[1099] *E	J
14	Manganese P	35	
15	Mercury	0.2	
16	Nickel P	25 E	J
17	Potassium P	3865	
18	Selenium F	4.6 EU	
19	Silver P	2.0 U	
20	Sodium P	[302]	
21	Thallium F	0.5 U	
22	Vanadium P	15	
23	Zinc P	43 E	J
	Percent Solids (%)	81	

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-1-2A

Date: 11-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2348

SOW NO.: 785

LAB RECEIPT DATE: 10-08-87

LAB SAMPLE ID. NO.: F2348-02

QC REPORT NO.: FCH-02

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	3318		13	Magnesium P	[835] *E	J
2	Antimony P	12 UN		14	Manganese P	42	
3	Arsenic F	50		15	Mercury	0.1 U	
4	Barium P	[32]		16	Nickel P	[6.1]E	J
5	Beryllium P	1.1 U		17	Potassium P	1964	
6	Cadmium P	0.8 U		18	Selenium F	0.4 U	
7	Calcium P	1909		19	Silver P	1.9 U	
8	Chromium P	960 *E	J	20	Sodium P	[143]	
9	Cobalt P	2.2 U		21	Thallium F	0.4 U	
10	Copper P	32		22	Vanadium P	11	
11	Iron P	20100		23	Zinc P	18 E	J
12	Lead F	5.2 *	J		Percent Solids (%)	90	
	Cyanide	1.2	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-1-2B

Date: 11-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2348

SOW NO.: 785

LAB RECEIPT DATE: 10-08-87

LAB SAMPLE ID. NO.: F2348-03

QC REPORT NO.: FCH-02

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	3392		13	Magnesium P	1006 *E	J
2	Antimony P	13 N		14	Manganese P	52	
3	Arsenic F	62		15	Mercury	0.1 U	
4	Barium P	[29]		16	Nickel P	7.9 E	J
5	Beryllium P	0.9 U		17	Potassium P	2169	
6	Cadmium P	0.7 U		18	Selenium F	0.4 U	
7	Calcium P	2319		19	Silver P	1.6 U	
8	Chromium P	839 *E	J	20	Sodium P	[147]	
9	Cobalt P	1.9 U		21	Thallium F	0.4 U	
10	Copper P	37		22	Vanadium P	12	
11	Iron P	23000		23	Zinc P	19 E	J
12	Lead F	6.8 *	J		Percent Solids (%)	90	
	Cyanide	1.9	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-1-3

Date: 11-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2348

SOW NO.: 785

LAB RECEIPT DATE: 10-08-87

LAB SAMPLE ID. NO.: F2348-04

QC REPORT NO.: FCH-02

Elements Identified and Measured
##########################

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	5000		13	Magnesium P	1492 *E	J
2	Antimony P	8.0 UN		14	Manganese P	94	
3	Arsenic F	22		15	Mercury	0.1 U	
4	Barium P	35		16	Nickel P	12 E	J
5	Beryllium P	0.7 U		17	Potassium P	1230	
6	Cadmium P	0.5 U		18	Selenium F	0.3 U	
7	Calcium P	2094		19	Silver P	1.3 U	
8	Chromium P	133 *E	J	20	Sodium P	[127]	
9	Cobalt P	[1.8]		21	Thallium F	0.3 U	
10	Copper P	50		22	Vanadium P	20	
11	Iron P	24100		23	Zinc P	33 E	J
12	Lead F	8.5 *s	J		Percent Solids (%)	90	
	Cyanide	0.63 U	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-1-4

Date: 11-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2348

SOW NO.: 785

LAB RECEIPT DATE: 10-08-87

LAB SAMPLE ID. NO.: F2348-05

QC REPORT NO.: FCH-02

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	5585	
2	Antimony P	12 UN	
3	Arsenic F	7.4	
4	Barium P	[7.8]	
5	Beryllium P	1.1 U	
6	Cadmium P	1.6	
7	Calcium P	40700	
8	Chromium P	94 *E	J
9	Cobalt P	[9.8]	
10	Copper P	187	
11	Iron P	15400	
12	Lead F	4.1 *	J
	Cyanide	4.9	J
13	Magnesium P	13500 *E	J
14	Manganese P	483	
15	Mercury	0.1 U	
16	Nickel P	131 E	J
17	Potassium P	[373]	
18	Selenium F	0.4 U	
19	Silver P	1.9 U	
20	Sodium P	[88]	
21	Thallium F	0.4 U	
22	Vanadium P	[9.4]	
23	Zinc P	181 E	J
	Percent Solids (%)	88	

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000007

FORM I

Client Sample No.
S-B-1-5

Date: 11-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2348

SOW NO.: 785

LAB RECEIPT DATE: 10-08-87

LAB SAMPLE ID. NO.: F2348-06

QC REPORT NO.: FCH-02

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1816		13	Magnesium P	9506 *E	J
2	Antimony P	9.4 UN		14	Manganese P	145	
3	Arsenic F	2.4		15	Mercury	0.2	
4	Barium P	[7.9]		16	Nickel P	140 E	J
5	Beryllium P	0.9 U		17	Potassium P	[196]	
6	Cadmium P	0.6 U		18	Selenium F	0.3 U	
7	Calcium P	52600		19	Silver P	1.5 U	
8	Chromium P	68 *E	J	20	Sodium P	[175]	
9	Cobalt P	[2.2]		21	Thallium F	0.3 U	
10	Copper P	40		22	Vanadium P	[4.4]	
11	Iron P	5718		23	Zinc P	100 E	J
12	Lead F	3.8 *	J		Percent Solids (%)	89	
	Cyanide	0.22 U	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-1-6

Date: 11-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2348

SOW NO.: 785

LAB RECEIPT DATE: 10-08-87

LAB SAMPLE ID. NO.: F2348-07

QC REPORT NO.: FCH-02

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	5236		13	Magnesium P	23200 *E	J
2	Antimony P	9.4 UN		14	Manganese P	258	
3	Arsenic F	4.9 s		15	Mercury	0.1 U	
4	Barium P	[26]		16	Nickel P	16 E	J
5	Beryllium P	0.9 U		17	Potassium P	1023	
6	Cadmium P	1.0		18	Selenium F	3.4 EU	
7	Calcium P	68800		19	Silver P	1.5 U	
8	Chromium P	14 *E	J	20	Sodium P	[205]	
9	Cobalt P	[5.3]		21	Thallium F	0.3 U	
10	Copper P	9.4		22	Vanadium P	12	
11	Iron P	10700		23	Zinc P	35 E	J
12	Lead F	5.4 *	J		Percent Solids (%)	88	
	Cyanide	0.22 U	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-1-7

Date: 11-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2348

SOW NO.: 785

LAB RECEIPT DATE: 10-08-87

LAB SAMPLE ID. NO.: F2348-08

QC REPORT NO.: FCH-02

Elements Identified and Measured
++++++++++++++++++++++++++++++++

Concentration: L

Matrix: Soil

mg/kg dry weight

ORGINAL DATA IS MOSTLY INCORRECT. CORRECTIONS MADE FROM RA

1	Aluminum P	~~16.21~~ 6400		13	Magnesium P	~~11 U~~ E* 26200	J
2	Antimony P	9.5 UN		14	Manganese P	~~1.3 U~~ 285	
3	Arsenic F	5.0 s		15	Mercury	0.2	
4	Barium P	~~1.6 U~~ 33		16	Nickel P	~~1.9~~ UE 15.8	J
5	Beryllium P	0.9 U		17	Potassium P	~~17 U~~ 1300	
6	Cadmium P	0.6 U		18	Selenium F	3.5 EU	
7	Calcium P	~~12 U~~ 78700		19	Silver P	1.5 U	
8	Chromium P	~~0.7 U~~ E 14	J	20	Sodium P	~~12 U~~ 149	
9	Cobalt P	~~1.7 U~~ 5.6		21	Thallium F	0.3 U	
10	Copper P	~~1.8 U~~ 8.7		22	Vanadium P	~~0.5 U~~ 14.9	
11	Iron P	~~10 U~~ 11700		23	Zinc P	~~1.6~~ UE 36.6	J
12	Lead F	5.7 *	J		Percent Solids (%)	85	
	Cyanide	0.23 U	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-1-8

Date: 11-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2348

SOW NO.: 785

LAB RECEIPT DATE: 10-08-87

LAB SAMPLE ID. NO.: F2348-09

QC REPORT NO.: FCH-02

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2880		13	Magnesium P	19600 *E	J
2	Antimony P	8.6 UN		14	Manganese P	174	
3	Arsenic F	2.8 s		15	Mercury	0.1 U	
4	Barium P	[15]		16	Nickel P	8.5 E	J
5	Beryllium P	0.8 U		17	Potassium P	[562]	
6	Cadmium P	1.1		18	Selenium F	0.3 U	
7	Calcium P	55200		19	Silver P	1.4 U	
8	Chromium P	8.0 *E	J	20	Sodium P	[98]	
9	Cobalt P	[2.8]		21	Thallium F	0.3 U	
10	Copper P	4.6		22	Vanadium P	8.3	
11	Iron P	6217		23	Zinc P	22 E	J
12	Lead F	3.8 *	J		Percent Solids (%)	85	
	Cyanide	0.22 U	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-1-9

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SDW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-27

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	3637 *		13	Magnesium P	13600 E	J
2	Antimony P	12 UN	R	14	Manganese P	278 N*	J
3	Arsenic F	2.9 sN	J	15	Mercury	[0.1]	J
4	Barium P	[16]N	J	16	Nickel P	[8.5]N	J
5	Beryllium P	1.1 U		17	Potassium P	[642]	
6	Cadmium P	0.8 U		18	Selenium F	0.4 UN	UJ
7	Calcium P	39500 *		19	Silver P	2.0 U	
8	Chromium P	19 *		20	Sodium P	[111]	
9	Cobalt P	2.2 U		21	Thallium F	0.4 U N	UJ
10	Copper P	6.1		22	Vanadium P	[3.4]	
11	Iron P	11300 *		23	Zinc P	24 *N E	J
12	Lead F	3.4			Percent Solids (%)	91	
	Cyanide	0.2 UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-1-10

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SDW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-17

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1043 *		13	Magnesium P	9859 E	J
2	Antimony P	11 UN	R	14	Manganese P	75 N*	J
3	Arsenic F	[1.2]N	J	15	Mercury	0.1 U	UJ
4	Barium P	[6.5]N	J	16	Nickel P	[6.2]N	J
5	Beryllium P	1.0 U		17	Potassium P	[183]	
6	Cadmium P	0.7 U		18	Selenium F	0.4 UN	UJ
7	Calcium P	33800 *		19	Silver P	1.7 U	
8	Chromium P	19 *		20	Sodium P	[138]	
9	Cobalt P	2.0 U		21	Thallium F	0.4 UN	UJ
10	Copper P	[4.6]		22	Vanadium P	[4.4]	
11	Iron P	2803 *		23	Zinc P	12 *NE	J
12	Lead F	1.8 s			Percent Solids (%)	83	
	Cyanide	0.2 UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-1-11

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SDW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-15

GC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2626 *		13	Magnesium P	13500 E	J
2	Antimony P	9.8 UN	R	14	Manganese P	171 N*	J
3	Arsenic F	2.8 N	J	15	Mercury	0.1 U	UJ
4	Barium P	[13]N	J	16	Nickel P	11 N	J
5	Beryllium P	0.9 U		17	Potassium P	[457]	
6	Cadmium P	0.7 U		18	Selenium F	0.4 UN	UJ
7	Calcium P	35300 *		19	Silver P	1.5 U	
8	Chromium P	17 *		20	Sodium P	[91]	
9	Cobalt P	[5.0]		21	Thallium F	0.4 UN	UJ
10	Copper P	5.7		22	Vanadium P	8.9	
11	Iron P	5832 *		23	Zinc P	24 *NE	J
12	Lead F	4.1 s			Percent Solids (%)	84	
	Cyanide	0.2 UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-1-13

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-20

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	774 *		13	Magnesium P	5052 E	J
2	Antimony P	12 UN	R	14	Manganese P	47 N*	J
3	Arsenic F	0.9 UN	UJ	15	Mercury	0.1 U	UJ
4	Barium P	[4.3]N	J	16	Nickel P	2.5 UN	
5	Beryllium P	1.1 U		17	Potassium P	[55]	
6	Cadmium P	0.8 U		18	Selenium F	0.4 UN	UJ
7	Calcium P	16500 *		19	Silver P	2.0 U	
8	Chromium P	14 *		20	Sodium P	[117]	
9	Cobalt P	2.2 U		21	Thallium F	0.4 UN	UJ
10	Copper P	1.3 U		22	Vanadium P	[1.8]	
11	Iron P	1886 *		23	Zinc P	5.3 *NE	J
12	Lead F	0.4 U			Percent Solids (%)	84	
	Cyanide	0.2 UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-1-12

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-21

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	774 *		13	Magnesium P	5429 E	J
2	Antimony P	11 UN	R	14	Manganese P	53 N*	J
3	Arsenic F	0.8 UN	UJ	15	Mercury	0.1 U	UJ
4	Barium P	[4.7]N	J	16	Nickel P	2.1 UN	
5	Beryllium P	1.0 U		17	Potassium P	[87]	
6	Cadmium P	0.7 U		18	Selenium F	0.4 UN	UJ
7	Calcium P	18500 *		19	Silver P	1.7 U	
8	Chromium P	15 *		20	Sodium P	[139]	
9	Cobalt P	2.0 U		21	Thallium F	0.4 UN	UJ
10	Copper P	[1.8]		22	Vanadium P	[1.8]	
11	Iron P	2018 *		23	Zinc P	6.1 *NE	J
12	Lead F	[0.6]			Percent Solids (%)	84	
	Cyanide	0.7 N	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 000024

FORM I

Client Sample No.
S-B-1-15

Date: 01-18-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2456

SOW NO.: 785

LAB RECEIPT DATE: 10-22-87

LAB SAMPLE ID. NO.: F2456-08

QC REPORT NO.: FCH-10

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	667	13	Magnesium P	4877	
2	Antimony P	13 U	14	Manganese P	48	
3	Arsenic F	1.2 U	15	Mercury	0.1 U	
4	Barium P	[4.3]	16	Nickel P	2.6 U	
5	Beryllium P	1.2 U	17	Potassium P	[105]	
6	Cadmium P	0.9 U	18	Selenium F	0.5 UN	UJ
7	Calcium P	15900	19	Silver P	2.1 U	
8	Chromium P	14	20	Sodium P	[147]	
9	Cobalt P	2.4 U	21	Thallium F	0.5 U	
10	Copper P	[1.7]	22	Vanadium P	[2.2]	
11	Iron P	1798	23	Zinc P	5.3	
12	Lead F	1.2 U		Percent Solids (%)	83	
	Cyanide	0.2 UN	R			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 000010

FORM I

Client Sample No.
S-B-1-16

Date: 01-18-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2456

SOW NO.: 785

LAB RECEIPT DATE: 10-22-87

LAB SAMPLE ID. NO.: F2456-09

QC REPORT NO.: FCH-10

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	817	13	Magnesium P	5489
2	Antimony P	13 U	14	Manganese P	59
3	Arsenic F	1.2 U	15	Mercury	0.1 U
4	Barium P	[6.0]	16	Nickel P	[2.9]
5	Beryllium P	1.2 U	17	Potassium P	[106]
6	Cadmium P	0.9 U	18	Selenium F	0.5 UN UJ
7	Calcium P	19600	19	Silver P	2.1 U
8	Chromium P	18	20	Sodium P	[182]
9	Cobalt P	2.4 U	21	Thallium F	0.5 U
10	Copper P	[2.6]	22	Vanadium P	[2.9]
11	Iron P	2323	23	Zinc P	9.4
12	Lead F	[1.0]s		Percent Solids (%)	83
	Cyanide	0.2 UN R			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-1-17

Date: 01-18-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2456

SOW NO.: 785

LAB RECEIPT DATE: 10-22-87

LAB SAMPLE ID. NO.: F2456-06

QC REPORT NO.: FCH-10

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	740	13	Magnesium P	7365
2	Antimony P	13 U	14	Manganese P	65
3	Arsenic F	1.2 U	15	Mercury	0.1 U
4	Barium P	[4.0]	16	Nickel P	[8.0]
5	Beryllium P	1.2 U	17	Potassium P	[88]
6	Cadmium P	0.9 U	18	Selenium F	0.5 UN R
7	Calcium P	24800	19	Silver P	2.0 U
8	Chromium P	53	20	Sodium P	[134]
9	Cobalt P	2.4 U	21	Thallium F	0.5 U
10	Copper P	[2.6]	22	Vanadium P	[3.3]
11	Iron P	2233	23	Zinc P	7.5
12	Lead F	2.1		Percent Solids (%)	85
	Cyanide	0.2 UN R			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-1-19

Date: 01-18-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2456

SOW NO.: 785

LAB RECEIPT DATE: 10-22-87

LAB SAMPLE ID. NO.: F2456-07

QC REPORT NO.: FCH-10

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	744	13	Magnesium P	8650
2	Antimony P	13 U	14	Manganese P	121
3	Arsenic F	2.3 U	15	Mercury	0.1 U
4	Barium P	[6.5]	16	Nickel P	[6.5]
5	Beryllium P	1.2 U	17	Potassium P	[83]
6	Cadmium P	0.9 U	18	Selenium F	0.5 UN UJ
7	Calcium P	26200	19	Silver P	2.0 U
8	Chromium P	42	20	Sodium P	[137]
9	Cobalt P	2.3 U	21	Thallium F	0.5 U
10	Copper P	[2.1]	22	Vanadium P	[2.6]
11	Iron P	3790	23	Zinc P	9.6
12	Lead F	[1.2]s		Percent Solids (%)	86
	Cyanide	0.2 UN R			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000009

FORM I

Client Sample No.
S-B-1-14

Date: 01-18-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2456

SOW NO.: 785

LAB RECEIPT DATE: 10-22-87

LAB SAMPLE ID. NO.: F2456-10

QC REPORT NO.: FCH-10

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	698		13	Magnesium P	4867	
2	Antimony P	13 U		14	Manganese P	50	
3	Arsenic F	1.2 U		15	Mercury	0.1 U	
4	Barium P	[5.0]		16	Nickel P	2.6 U	
5	Beryllium P	1.2 U		17	Potassium P	[115]	
6	Cadmium P	0.9 U		18	Selenium F	0.5 UN	UJ
7	Calcium P	16800		19	Silver P	2.1 U	
8	Chromium P	12		20	Sodium P	[178]	
9	Cobalt P	2.4 U		21	Thallium F	0.5 U	
10	Copper P	[2.2]		22	Vanadium P	[2.2]	
11	Iron P	1759		23	Zinc P	7.0	
12	Lead F	1.2 U			Percent Solids (%)	83	
	Cyanide	0.2 UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 000012

FORM I

Client Sample No.
S-B-2-1

Date: 01-06-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2379

SOW NO.: 785

LAB RECEIPT DATE: 10-14-87

LAB SAMPLE ID. NO.: F2379-05

QC REPORT NO.: FCH-06

Elements Identified and Measured
++++++++++++++++++++++++++++++

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	4309		13	Magnesium P	26300 E	J
2	Antimony P	13 UN	R	14	Manganese P	250 N	J
3	Arsenic F	1.2 U		15	Mercury	0.1 UN*	R
4	Barium P	[16]		16	Nickel P	62 N	J
5	Beryllium P	1.2 U		17	Potassium P	[937]	
6	Cadmium P	0.9 U		18	Selenium F	0.5 U	
7	Calcium P	73100		19	Silver P	2.0 U	
8	Chromium P	39		20	Sodium P	[335]	R
9	Cobalt P	[5.6]		21	Thallium F	4.6 U	
10	Copper P	60		22	Vanadium P	12	
11	Iron P	8572		23	Zinc P	36 N	J
12	Lead F	5.6			Percent Solids (%)	86	
	Cyanide	0.32	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-2-3

Date: 01-06-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2379

SDW NO.: 785

LAB RECEIPT DATE: 10-14-87

LAB SAMPLE ID. NO.: F2379-06

QC REPORT NO.: FCH-06

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1792		13	Magnesium P	22600 E	J
2	Antimony P	13 UN	R	14	Manganese P	145 N	J
3	Arsenic F	0.9 U		15	Mercury	0.1 UN*	R
4	Barium P	[2.5]		16	Nickel P	25 N	J
5	Beryllium P	1.1 U		17	Potassium P	[241]	
6	Cadmium P	0.9 U		18	Selenium F	0.5 U	
7	Calcium P	7395		19	Silver P	2.0 U	
8	Chromium P	91		20	Sodium P	[236]	R
9	Cobalt P	2.3 U		21	Thallium F	0.5 U	
10	Copper P	6.7		22	Vanadium P	[7.4]	
11	Iron P	4970		*23	Zinc P	23 N	R
12	Lead F	6.0			Percent Solids (%)	87	
	Cyanide	0.22 U	UJ				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-2-5

Date: 01-06-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2379

SOW NO.: 785

LAB RECEIPT DATE: 10-14-87

LAB SAMPLE ID. NO.: F2379-07

QC REPORT NO.: FCH-06

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2799		13	Magnesium P	14600 E	J
2	Antimony P	12 UN	R	14	Manganese P	217 N	J
3	Arsenic F	5.5		15	Mercury	0.1 UN*	R
4	Barium P	[7.5]		16	Nickel P	56 N	J
5	Beryllium P	1.1 U		17	Potassium P	[453]	
6	Cadmium P	0.8 U		18	Selenium F	1.1 U	
7	Calcium P	48000		19	Silver P	1.9 U	
8	Chromium P	334		20	Sodium P	[87]	R
9	Cobalt P	[3.1]		21	Thallium F	0.4 U	
10	Copper P	13		22	Vanadium P	18	
11	Iron P	10900		23	Zinc P	86 N	J
12	Lead F	4.9			Percent Solids (%)	90	
	Cyanide	1.2	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-2-6

Date: 0:-06-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2379

SOW NO.: 785

LAB RECEIPT DATE: 10-14-87

LAB SAMPLE ID. NO.: F2379-01

QC REPORT NO.: FCH-06

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	824		13	Magnesium P	5687 E	J
2	Antimony P	13 UN	R	14	Manganese P	79 N	J
3	Arsenic F	1.0 U		15	Mercury	0.1 UN*	R
4	Barium P	[5.5]		16	Nickel P	20 N *	J
5	Beryllium P	1.2 U		17	Potassium P	[118]	
6	Cadmium P	0.9 U		18	Selenium F	4.8 U	
7	Calcium P	18300		19	Silver P	2.1 U	
8	Chromium P	16 *		20	Sodium P	[174]	R
9	Cobalt P	2.4 U		21	Thallium F	4.8 U	
10	Copper P	[4.8]		22	Vanadium P	[2.7]	
11	Iron P	2662		23	Zinc P	14 N	R
12	Lead F	2.7			Percent Solids (%)	83	
	Cyanide	0.23 U	UJ				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-2-7

Date: 01-06-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2379

SOW NO.: 785

LAB RECEIPT DATE: 10-14-87

LAB SAMPLE ID. NO.: F2379-02

QC REPORT NO.: FCH-06

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	5459		13	Magnesium P	10500 E	J
2	Antimony P	12 UN	R	14	Manganese P	318 N	J
3	Arsenic F	16		15	Mercury	0.3 N*	J
4	Barium P	85		16	Nickel P	21 N	J
5	Beryllium P	1.1 U		17	Potassium P	[579]	
6	Cadmium P	0.8 U		18	Selenium F	0.4 U	
7	Calcium P	63700		19	Silver P	1.9 U	
8	Chromium P	38		20	Sodium P	[195]	R
9	Cobalt P	[3.5]		21	Thallium F	0.4 U	
10	Copper P	25		22	Vanadium P	13	
11	Iron P	12300		23	Zinc P	49 N	J
12	Lead P	27 *			Percent Solids (%)	91	
	Cyanide	0.86	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

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FORM I

Client Sample No.
S-B-2-8

Date: 01-06-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2379

SDW NO.: 785

LAB RECEIPT DATE: 10-14-87

LAB SAMPLE ID. NO.: F2379-03

QC REPORT NO.: FCH-06

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	11700		13	Magnesium P	7809 E	J
2	Antimony P	16 UN	R	14	Manganese P	1352 N	J
3	Arsenic F	20 s		15	Mercury	0.2 UN*	R
4	Barium P	152		16	Nickel P	89 N	J
5	Beryllium P	1.5 U		17	Potassium P	2371	
6	Cadmium P	1.1 U		18	Selenium F	0.6 U	
7	Calcium P	41200		19	Silver P	2.6 U	
8	Chromium P	535		20	Sodium P	5339	
9	Cobalt P	[8.6]		21	Thallium F	0.6 U	
10	Copper P	119		22	Vanadium P	30	
11	Iron P	63700		23	Zinc P	145 N	J
12	Lead F	23 s			Percent Solids (%)	68	
	Cyanide	4.4	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-3-1

Date: 11-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2348

SOW NO.: 785

LAB RECEIPT DATE: 10-08-87

LAB SAMPLE ID. NO.: F2348-10

QC REPORT NO.: FCH-02

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

SOME DATA INCORRECTLY REPORTED. CORRECTIONS MADE FROM RAW DATA

mg/kg dry weight

1	Aluminum P	4003		13	Magnesium P	~~10 U~~ E* 5200	J
2	Antimony P	9.2 UN		14	Manganese P	~~1.3 U~~ 310	
3	Arsenic F	9.7 s		15	Mercury	0.2	
4	Barium P	~~1.6 U~~ 68		16	Nickel P	~~1.8~~ UE 16	J
5	Beryllium P	0.8 U		17	Potassium P	~~16 U~~ 360	
6	Cadmium P	0.6 U		18	Selenium F	3.4 EU	
7	Calcium P	~~12 U~~ 32400		19	Silver P	1.5 U	
8	Chromium P	~~0.7 U~~*E 17	J	20	Sodium P	~~12 U~~ [75]	
9	Cobalt P	1.7 U		21	Thallium F	0.3 U	
10	Copper P	~~1.0~~ U 24		22	Vanadium P	~~0.5 U~~ 12	
11	Iron P	~~10 U~~ 1000		23	Zinc P	~~1.5~~ UE 49	J
12	Lead F	42 *s	J		Percent Solids (%)	90	
	Cyanide	0.36	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-3-2

Date: 11-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2348

SOW NO.: 785

LAB RECEIPT DATE: 10-08-87

LAB SAMPLE ID. NO.: F2348-11

QC REPORT NO.: FCH-02

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	3424		13	Magnesium P	10600 *E	J
2	Antimony P	11 UN		14	Manganese P	239	
3	Arsenic F	3.8		15	Mercury	0.1 U	
4	Barium P	52		16	Nickel P	12 E	J
5	Beryllium P	1.0 U		17	Potassium P	[593]	
6	Cadmium P	1.0		18	Selenium F	0.4 U	
7	Calcium P	33800		19	Silver P	1.7 U	
8	Chromium P	15 *E	J	20	Sodium P	[191]	
9	Cobalt P	[3.4]		21	Thallium F	0.4 U	
10	Copper P	16		22	Vanadium P	11	
11	Iron P	8023		23	Zinc P	42 E	J
12	Lead F	24 *s	J		Percent Solids (%)	93	
	Cyanide	0.63	J				

or reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-3-3A

Date: 11-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2348

SOW NO.: 785

LAB RECEIPT DATE: 10-08-87

LAB SAMPLE ID. NO.: F2348-12

QC REPORT NO.: FCH-02

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2598		13	Magnesium P	6722 *E	J
2	Antimony P	12 UN		14	Manganese P	200	
3	Arsenic F	3.8		15	Mercury	0.1 U	
4	Barium P	[33]		16	Nickel P	[6.9]E	J
5	Beryllium P	1.1 U		17	Potassium P	2570	
6	Cadmium P	0.8 U		18	Selenium F	0.4 U	
7	Calcium P	16600		19	Silver P	1.8 U	
8	Chromium P	7.4 *E	J	20	Sodium P	[90]	
9	Cobalt P	[2.3]		21	Thallium F	0.4 U	
10	Copper P	11		22	Vanadium P	[8.0]	
11	Iron P	7700		23	Zinc P	36 E	J
12	Lead F	18 *s+	J		Percent Solids (%)	91	
	Cyanide	0.83	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-3-3B

Date: 11-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2348

SOW NO.: 785

LAB RECEIPT DATE: 10-08-87

LAB SAMPLE ID. NO.: F2348-13

QC REPORT NO.: FCH-82

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	3127		13	Magnesium P	7084 *E	J
2	Antimony P	9.3 UN		14	Manganese P	254	
3	Arsenic F	4.8		15	Mercury	0.1 U	
4	Barium P	47		16	Nickel P	8.7 E	J
5	Beryllium P	0.8 U		17	Potassium P	[334]	
6	Cadmium P	0.6 U		18	Selenium F	0.3 U	
7	Calcium P	19500		19	Silver P	1.5 U	
8	Chromium P	9.3 *E	J	20	Sodium P	[98]	
9	Cobalt P	[2.7]		21	Thallium F	0.3 U	
10	Copper P	12		22	Vanadium P	11	
11	Iron P	9790		23	Zinc P	38 E	J
12	Lead F	19 *s	J		Percent Solids (%)	91	
	Cyanide	0.73	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-3-4

Date: 11-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2348

SOW NO.: 785

LAB RECEIPT DATE: 10-08-87

LAB SAMPLE ID. NO.: F2348-14

QC REPORT NO.: FCH-02

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	11700		13	Magnesium P	2663 *E	J
2	Antimony P	11 UN		14	Manganese P	168	
3	Arsenic F	10		15	Mercury	0.1 U	
4	Barium P	122		16	Nickel P	9.6 E	J
5	Beryllium P	1.0 U		17	Potassium P	[416]	
6	Cadmium P	0.7 U		18	Selenium F	[0.8]	
7	Calcium P	4537		19	Silver P	1.7 U	
8	Chromium P	21 *E	J	20	Sodium P	[153]	
9	Cobalt P	[4.0]		21	Thallium F	0.4 U	
10	Copper P	12		22	Vanadium P	31	
11	Iron P	32400		23	Zinc P	67 E	J
12	Lead F	12 *	J		Percent Solids (%)	83	
	Cyanide	0.24 U	UJ				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-3-5

Date: 11-23-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2348

SOW NO.: 785

LAB RECEIPT DATE: 10-08-87

LAB SAMPLE ID. NO.: F2348-15

QC REPORT NO.: FCH-02

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1817		13	Magnesium P	11700 *E	J
2	Antimony P	12 UN		14	Manganese P	76	
3	Arsenic F	11 s		15	Mercury	0.1 U	
4	Barium P	[7.9]		16	Nickel P	30 E	J
5	Beryllium P	1.0 U		17	Potassium P	[159]	
6	Cadmium P	0.8 U		18	Selenium F	0.4 U	
7	Calcium P	28400		19	Silver P	1.8 U	
8	Chromium P	7.5 *E	J	20	Sodium P	[90]	
9	Cobalt P	[4.2]		21	Thallium F	0.4 U	
10	Copper P	22		22	Vanadium P	[8.6]	
11	Iron P	6709		23	Zinc P	27 E	J
12	Lead F	2.1 *	J		Percent Solids (%)	89	
	Cyanide	0.22 U	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

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FORM I

Client Sample No.
S-B-3-6

Date: 12-26-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2364

SOW NO.: 785

LAB RECEIPT DATE: 10-12-87

LAB SAMPLE ID. NO.: F2364-01

QC REPORT NO.: FCH-05

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1349	13	Magnesium P	7558	
2	Antimony P	14 U	14	Manganese P	76	
3	Arsenic F	1.3 U	15	Mercury	0.1 U	
4	Barium P	2.4 U	16	Nickel P	37	
5	Beryllium P	1.3 U	17	Potassium P	[26]	
6	Cadmium P	0.9 U	18	Selenium F	0.5 UN	WJ
7	Calcium P	26600	19	Silver P	2.2 U	
8	Chromium P	15	20	Sodium P	[79]	
9	Cobalt P	2.5 U	21	Thallium F	0.5 U	
10	Copper P	29	22	Vanadium P	0.7 U	
11	Iron P	3739	23	Zinc P	79	
12	Lead F	1.3 UN		Percent Solids (%)	79	
	Cyanide	0.26 U				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

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FORM I

Client Sample No.
S-B-3-8

Date: 12-26-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2364

SOW NO.: 785

LAB RECEIPT DATE: 10-12-87

LAB SAMPLE ID. NO.: F2364-02

QC REPORT NO.: FCH-05

Elements identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	930	13	Magnesium P	5556	
2	Antimony P	13 U	14	Manganese P	55	
3	Arsenic F	1.2 U	15	Mercury	0.1 U	
4	Barium P	2.2 U	16	Nickel P	[4.8]	
5	Beryllium P	1.2 U	17	Potassium P	[75]	
6	Cadmium P	0.9 U	18	Selenium F	0.5 UN	UJ
7	Calcium P	16800	19	Silver P	2.1 U	
8	Chromium P	42	20	Sodium P	[115]	
9	Cobalt P	2.4 U	21	Thallium F	0.5 U	
10	Copper P	1.4 U	22	Vanadium P	0.7 U	
11	Iron P	2059	23	Zinc P	7.5	
12	Lead F	[1.0]N J		Percent Solids (%)	63	
	Cyanide	0.24 U				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

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FORM I

Client Sample No.
S-B-3-9

Date: 12-26-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2364

SOW NO.: 785

LAB RECEIPT DATE: 10-12-87

LAB SAMPLE ID. NO.: F2364-03

QC REPORT NO.: FCH-05

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	779		13	Magnesium P	5688	
2	Antimony P	13 U		14	Manganese P	47	
3	Arsenic F	1.2 U		15	Mercury	0.1 U	
4	Barium P	2.2 U		16	Nickel P	2.6 U	
5	Beryllium P	1.2 U		17	Potassium P	[45]	
6	Cadmium P	0.9 U		18	Selenium F	0.5 UN	UJ
7	Calcium P	19300		19	Silver P	2.1 U	
8	Chromium P	15		20	Sodium P	[105]	
9	Cobalt P	2.4 U		21	Thallium F	0.5 U	
10	Copper P	[1.4]		22	Vanadium P	0.6 U	
11	Iron P	2024		23	Zinc P	7.6	
12	Lead F	1.7 N	J		Percent Solids (%)	84	
	Cyanide	0.22 U					

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-3-10

Date: 12-26-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2364

SDW NO.: 785

LAB RECEIPT DATE: 10-12-87

LAB SAMPLE ID. NO.: F2364-04

QC REPORT NO.: FCH-C5

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	705		13	Magnesium P	6690	
2	Antimony P	13 U		14	Manganese P	49	
3	Arsenic F	1.2 U		15	Mercury	0.1 U	
4	Barium P	2.2 U		16	Nickel P	2.6 U	
5	Beryllium P	1.2 U		17	Potassium P	24 U	
6	Cadmium P	0.9 U		18	Selenium F	0.5 UN	UJ
7	Calcium P	21900		19	Silver P	2.1 U	
8	Chromium P	10		20	Sodium P	[130]	
9	Cobalt P	2.4 U		21	Thallium F	0.5 U	
10	Copper P	1.4 U		22	Vanadium P	0.6 U	
11	Iron P	2124		23	Zinc P	9.6	
12	Lead F	[1.2]sN	J		Percent Solids (%)	83	
	Cyanide	0.22 U					

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

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FORM I

Client Sample No.
S-B-3-11

Date: 12-28-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2364

SOW NO.: 785

LAB RECEIPT DATE: 10-12-87

LAB SAMPLE ID. NO.: F2364-05

QC REPORT NO.: FCH-05

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	799	13	Magnesium P	7236
2	Antimony P	13 U	14	Manganese P	52
3	Arsenic F	1.2 U	15	Mercury	0.1 U
4	Barium P	2.2 U	16	Nickel P	2.6 U
5	Beryllium P	1.2 U	17	Potassium P	[25]
6	Cadmium P	0.9 U	18	Selenium F	0.5 UN WS
7	Calcium P	24300	19	Silver P	2.1 U
8	Chromium P	10	20	Sodium P	[102]
9	Cobalt P	2.4 U	21	Thallium F	0.5 U
10	Copper P	[1.9]	22	Vanadium P	0.6 U
11	Iron P	2123	23	Zinc P	6.2
12	Lead F	4.7 UEN		Percent Solids (%)	84
	Cyanide	0.21 U			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

0005

FORM I

Client Sample No.
S-B-3-12

Date: 12-28-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2364

SOW NO.: 785

LAB RECEIPT DATE: 10-12-87

LAB SAMPLE ID. NO.: F2364-06

QC REPORT NO.: FCH-05

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1100	13	Magnesium P	7134
2	Antimony P	13 U	14	Manganese P	75
3	Arsenic F	1.2 U	15	Mercury	0.1 U
4	Barium P	[4.0]	16	Nickel P	2.6 U
5	Beryllium P	1.2 U	17	Potassium P	[53]
6	Cadmium P	0.9 U	18	Selenium F	0.5 UN UJ
7	Calcium P	24600	19	Silver P	2.1 U
8	Chromium P	11	20	Sodium P	[145]
9	Cobalt P	2.4 U	21	Thallium F	0.5 U
10	Copper P	1.3 U	22	Vanadium P	0.6 U
11	Iron P	3148	23	Zinc P	6.8
12	Lead F	[0.9]sN J		Percent Solids (%)	85
	Cyanide	0.20 U			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-3-13

Date: 12-26-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2364

SOW NO.: 785

LAB RECEIPT DATE: 10-12-87

LAB SAMPLE ID. NO.: F2364-07

QC REPORT NO.: FCH-05

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1017	13	Magnesium P	9565
2	Antimony P	13 U	14	Manganese P	79
3	Arsenic F	1.2 U	15	Mercury	2.0
4	Barium P	2.2 U	16	Nickel P	10
5	Beryllium P	1.2 U	17	Potassium P	[71]
6	Cadmium P	0.9 U	18	Selenium F	0.5 UN UJ
7	Calcium P	25900	19	Silver P	2.1 U
8	Chromium P	59	20	Sodium P	[62]
9	Cobalt P	2.4 U	21	Thallium F	0.5 U
10	Copper P	7.9	22	Vanadium P	0.6 U
11	Iron P	2681	23	Zinc P	21
12	Lead F	[1.0]sN J		Percent Solids (%)	84
	Cyanide	0.24 U			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

0005

FORM I

Client Sample No.
S-B-3-14

Date: 12-28-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2364

SOW NO.: 785

LAB RECEIPT DATE: 10-12-87

LAB SAMPLE ID. NO.: F2364-08

QC REPORT NO.: FCH-05

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	709	13	Magnesium P	7418
2	Antimony P	13 U	14	Manganese P	68
3	Arsenic F	1.2 U	15	Mercury	0.6
4	Barium P	2.2 U	16	Nickel P	[5.1]
5	Beryllium P	1.2 U	17	Potassium P	[26]
6	Cadmium P	0.9 U	18	Selenium F	0.5 UN UJ
7	Calcium P	22900	19	Silver P	2.1 U
8	Chromium P	5.2	20	Sodium P	[77]
9	Cobalt P	2.4 U	21	Thallium F	0.5 U
10	Copper P	1.4 U	22	Vanadium P	0.7 U
11	Iron P	2215	23	Zinc P	15
12	Lead F	[1.2]sN J		Percent Solids (%)	83
	Cyanide	0.23 U			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-3-15

Date: 12-28-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2364

SOW NO.: 785

LAB RECEIPT DATE: 10-12-87

LAB SAMPLE ID. NO.: F2364-03

QC REPORT NO.: FCH-05

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	818	13	Magnesium P	7135
2	Antimony P	13 U	14	Manganese P	65
3	Arsenic F	1.2 U	15	Mercury	0.1 U
4	Barium P	[2.4]	16	Nickel P	2.7 U
5	Beryllium P	1.2 U	17	Potassium P	[68]
6	Cadmium P	0.9 U	18	Selenium F	0.5 UN UJ
7	Calcium P	20000	19	Silver P	2.1 U
8	Chromium P	12	20	Sodium P	[72]
9	Cobalt P	2.4 U	21	Thallium F	0.5 U
10	Copper P	1.4 U	22	Vanadium P	0.7 U
11	Iron P	2191	23	Zinc P	6.6
12	Lead F	1.2 UN		Percent Solids (%)	82
	Cyanide	0.24 U			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-3-16

Date: 12-28-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2364

SOW NO.: 785

LAB RECEIPT DATE: 10-12-87

LAB SAMPLE ID. NO.: F2364-10

QC REPORT NO.: FCH-05

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	717		13	Magnesium P	6540	
2	Antimony P	13 U		14	Manganese P	57	
3	Arsenic F	1.2 U		15	Mercury	0.1 U	
4	Barium P	[3.8]		16	Nickel P	16	
5	Beryllium P	1.2 U		17	Potassium P	[176]	
6	Cadmium P	[1.1]		18	Selenium F	0.5 UN	UJ
7	Calcium P	21200		19	Silver P	[2.1]	
8	Chromium P	18		20	Sodium P	[93]	
9	Cobalt P	[4.5]		21	Thallium F	0.5 U	
10	Copper P	[4.3]		22	Vanadium P	[6.0]	
11	Iron P	1943		23	Zinc P	7.6	
12	Lead F	[1.0]sN	J		Percent Solids (%)	84	
	Cyanide	0.24 U					

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

00001

FORM I

Client Sample No.
S-B-3-17

Date: 01-06-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2379

SOW NO.: 785

LAB RECEIPT DATE: 10-14-87

LAB SAMPLE ID. NO.: F2379-04

QC REPORT NO.: FCH-06

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2141		13	Magnesium P	12500 E	J
2	Antimony P	11 UN	R	14	Manganese P	221 N	J
3	Arsenic F	0.8 U		15	Mercury	0.1 N*	J
4	Barium P	[3.3]		16	Nickel P	27 N *	J
5	Beryllium P	1.0 U		17	Potassium P	[238]	
6	Cadmium P	0.8 U		18	Selenium F	0.4 Us	
7	Calcium P	91200		19	Silver P	1.8 U	
8	Chromium P	174		20	Sodium P	[209]	R
9	Cobalt P	[2.3]		21	Thallium F	0.4 U	
10	Copper P	12		22	Vanadium P	[5.8]	
11	Iron P	7223		23	Zinc P	106 N	J
12	Lead F	5.0			Percent Solids (%)	96	
	Cyanide	3.2	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000006

FORM I

Client Sample No.
S-B-4-1

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SDG NO.: 785

LAB RECEIPT DATE: 10-17-87

SAMPLE ID. NO.: F2429-14

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	3005 *		13	Magnesium P	15100 E	J
2	Antimony P	11 UN	R	14	Manganese P	299 N*	J
3	Arsenic F	5.7 sN	J	15	Mercury	0.1 U	UJ
4	Barium P	[21] N	J	16	Nickel P	13 N	J
5	Beryllium P	1.0 U		17	Potassium P	[279]	
6	Cadmium P	0.8 U		18	Selenium F	0.4 UN	UJ
7	Calcium P	51400 *		19	Silver P	1.8 U	
8	Chromium P	25 *		20	Sodium P	[46]	
9	Cobalt P	[3.4]		21	Thallium F	0.4 UN	UJ
10	Copper P	13		22	Vanadium P	17	
11	Iron P	13600 *		23	Zinc P	29 *NE	J
12	Lead F	8.7 s			Percent Solids (%)	94	
	Cyanide	3.0 N	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000017

FORM I

Client Sample No.
S-B-4-2

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-22

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1734 *	
2	Antimony P	10 UN	R
3	Arsenic F	3.9 N	J
4	Barium P	[9.2]N	J
5	Beryllium P	0.9 U	
6	Cadmium P	0.7 U	
7	Calcium P	72100 *	
8	Chromium P	18 *	
9	Cobalt P	1.9 U	
10	Copper P	7.1	
11	Iron P	5502 *	
12	Lead F	1.9 s	
	Cyanide	0.4 N	J
13	Magnesium P	27000 E	J
14	Manganese P	138 N*	J
15	Mercury	[0.1]	J
16	Nickel P	12 N	J
17	Potassium P	[153]	
18	Selenium F	0.4 UN	UJ
19	Silver P	1.6 U	
20	Sodium P	[58]	
21	Thallium F	0.4 UN	UJ
22	Vanadium P	[5.3]	
23	Zinc P	22 *NE	J
	Percent Solids (%)	94	

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-4-3

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

JW NO.: 785

LAB RECEIPT DATE: 10-17-87

'OB SAMPLE ID. NO.: F2429-25

GC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2988 *		13	Magnesium P	11400 E	J
2	Antimony P	8.5 UN	R	14	Manganese P	182 N*	J
3	Arsenic F	3.4 N	J	15	Mercury	[0.1]	J
4	Barium P	[35]N	J	16	Nickel P	15 N	J
5	Beryllium P	0.8 U		17	Potassium P	[195]	
6	Cadmium P	0.6 U		18	Selenium F	0.3 U N	UJ
7	Calcium P	35500 *		19	Silver P	1.3 U	
8	Chromium P	19 *		20	Sodium P	[61]	
9	Cobalt P	[2.2]		21	Thallium F	0.3 UN	UJ
10	Copper P	16		22	Vanadium P	7.9	
11	Iron P	6372 *		23	Zinc P	32 *N E	J
12	Lead F	7.2			Percent Solids (%)	93	
	Cyanide	0.2 UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager: Kenneth Bond

Kenneth Bond

000028

FORM I

Client Sample No.
S-B-4-4A

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-18

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	4803 *	
2	Antimony P	11 UN	R
3	Arsenic F	11 N	J
4	Barium P	589 N	J
5	Beryllium P	1.0 U	
6	Cadmium P	0.7 U	
7	Calcium P	43500 *	
8	Chromium P	2968 *	
9	Cobalt P	[7.3]	
10	Copper P	549	
11	Iron P	17900 *	
12	Lead P	34 N	J
	Cyanide	183 N	J
13	Magnesium P	14400 E	J
14	Manganese P	289 N*	J
15	Mercury	[0.1]	J
16	Nickel P	1449 N	J
17	Potassium P	[510]	
18	Selenium F	0.4 UN	UJ
19	Silver P	1.7 U	
20	Sodium P	[116]	
21	Thallium F	0.4 UN	UJ
22	Vanadium P	11	
23	Zinc P	539 *N E	J
	Percent Solids (%)	83	

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Kenneth Bond

Lab Manager

Kenneth Bond

FORM I

Client Sample No.
S-B-4-4B

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-01

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	5013 *	
2	Antimony P	13 UN	R
3	Arsenic F	6.3 sN	J
4	Barium P	517 N	J
5	Beryllium P	1.2 U	
6	Cadmium P	0.5 U	
7	Calcium P	28400 *	
8	Chromium P	2561 *	
9	Cobalt P	[6.9]	
10	Copper P	824	
11	Iron P	17600 *	
12	Lead P	23 N	J
	Cyanide	231 N	J
13	Magnesium P	9711 E	J
14	Manganese P	311 N*	J
15	Mercury	[0.1]	J
16	Nickel P	1159 N	J
17	Potassium P	[768]	
18	Selenium F	0.5 U N	UJ
19	Silver P	2.0 U	
20	Sodium P	[147]	
21	Thallium F	0.5 UN	UJ
22	Vanadium P	[8.8]	
23	Zinc P	435 *NE	J
	Percent Solids (%)	84	

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 00000

FORM I

Client Sample No.
S-3-5-1

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-28

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2568 *		13	Magnesium P	7751 E	J
2	Antimony P	10 UN	R	14	Manganese P	142 N*	J
3	Arsenic F	18 N	J	15	Mercury	0.2	J
4	Barium P	80 N	J	16	Nickel P	403 N	J
5	Beryllium P	0.9 U		17	Potassium P	[359]	
6	Cadmium P	[0.5]		18	Selenium F	0.4 UN	UJ
7	Calcium P	26800 *		19	Silver P	1.5 U	
8	Chromium P	371 *		20	Sodium P	[67]	
9	Cobalt P	1.8 U		21	Thallium F	0.4 UN	UJ
10	Copper P	154		22	Vanadium P	10	
11	Iron P	16600 *		23	Zinc P	201 *NE	J
12	Lead P	62 N	J		Percent Solids (%)	85	
	Cyanide	4.3 N	J				

or reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes xplaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

omments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000031

FORM I

Client Sample No.
S-B-5-2

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-24

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	3665 *		13	Magnesium P	1131 E	J
2	Antimony P	11 UN	R	14	Manganese P	145 N*	J
3	Arsenic F	3.4 N	J	15	Mercury	0.1 U	UJ
4	Barium P	43 N	J	16	Nickel P	64 N	J
5	Beryllium P	1.0 U		17	Potassium P	[337]	
6	Cadmium P	0.7 U		18	Selenium F	0.4 U N	UJ
7	Calcium P	1624 *		19	Silver P	1.7 U	
8	Chromium P	313 *		20	Sodium P	[62]	
9	Cobalt P	2.0 U		21	Thallium F	0.4 UN	UJ
10	Copper P	40		22	Vanadium P	12	
11	Iron P	13600 *		23	Zinc P	22 *NE	J
12	Lead F	5.9			Percent Solids (%)	90	
	Cyanide	1.2 N	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 000027

FORM I

Client Sample No.
S-B-5-3

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-13

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	3754 *		13	Magnesium P	1102 E	J
2	Antimony P	9.8 UN	R	14	Manganese P	62 N*	J
3	Arsenic F	3.6 sN	J	15	Mercury	0.1 U	UJ
4	Barium P	[27]N	J	16	Nickel P	166 N	J
5	Beryllium P	0.9 U		17	Potassium P	[547]	
6	Cadmium P	0.7 U		18	Selenium F	0.4 UN	UJ
7	Calcium P	1013 *		19	Silver P	1.5 U	
8	Chromium P	409 *		20	Sodium P	[51]	
9	Cobalt P	[2.0]		21	Thallium F	0.4 UN	UJ
10	Copper P	146		22	Vanadium P	11	
11	Iron P	10500 *		23	Zinc P	38 *N E	J
12	Lead F	3.9			Percent Solids (%)	91	
	Cyanide	27 N	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Kenneth Bond

Lab Manager

Kenneth Bond 000016

FORM I

Client Sample No.
S-B-5-4

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-07

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1470 *	
2	Antimony P	12 UN	R
3	Arsenic F	2.6 sN	J
4	Barium P	[12]N	J
5	Beryllium P	1.1 U	
6	Cadmium P	0.8 U	
7	Calcium P	3013 *	
8	Chromium P	349 *	
9	Cobalt P	2.2 U	
10	Copper P	133	
11	Iron P	9251 *	
12	Lead F	4.4	
	Cyanide	124 N	J
13	Magnesium P	[1031]E	J
14	Manganese P	40 N*	J
15	Mercury	0.1 U	UJ
16	Nickel P	517 N	J
17	Potassium P	[456]	
18	Selenium F	0.4 U N	UJ
19	Silver P	1.9 U	
20	Sodium P	[46]	
21	Thallium F	0.4 UN	UJ
22	Vanadium P	[4.2]	
23	Zinc P	146 *NE	J
	Percent Solids (%)	87	

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager

Kenneth Bond

FORM I

Client Sample No.
S-B-6-1

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-09

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	3128 *		13	Magnesium P	8535 E	J
2	Antimony P	9.5 UN	R	14	Manganese P	201 N*	J
3	Arsenic F	38 N	J	15	Mercury	0.2	J
4	Barium P	280 N	J	16	Nickel P	1030 N	J
5	Beryllium P	0.9 U		17	Potassium P	[464]	
6	Cadmium P	5.2		18	Selenium F	0.4 UN	UJ
7	Calcium P	27400 *		19	Silver P	1.6 U	
8	Chromium P	1207 *		20	Sodium P	[125]	
9	Cobalt P	[8.7]		21	Thallium F	0.4 UN	UJ
10	Copper P	1209		22	Vanadium P	9.5	
11	Iron P	16500 *		23	Zinc P	1474 *NE	J
12	Lead P	365 N	J		Percent Solids (%)	88	
	Cyanide	0.9 N	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-6-2

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-04

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	7637 *		13	Magnesium P	5326 E	J
2	Antimony P	12 UN	R	14	Manganese P	114 N*	J
3	Arsenic F	9.0 N	J	15	Mercury	0.1 U	UJ
4	Barium P	[35] N	J	16	Nickel P	1022 N	J
5	Beryllium P	1.1 U		17	Potassium P	[639]	
6	Cadmium P	2.5		18	Selenium F	4.5 U N	UJ
7	Calcium P	43800 *		19	Silver P	2.0 U	
8	Chromium P	1423 *		20	Sodium P	[772]	
9	Cobalt P	[2.5]		21	Thallium F	0.5 UN	UJ
10	Copper P	642		22	Vanadium P	14	
11	Iron P	12800 *		23	Zinc P	364 *NE	J
12	Lead P	15 N	J		Percent Solids (%)	85	
	Cyanide	17 N	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 000007

FORM I

Client Sample No.
S-5-6-3

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-12

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2816 *		13	Magnesium P	4038 E	J
2	Antimony P	11 UN	R	14	Manganese P	106 N*	J
3	Arsenic F	4.3 N	J	15	Mercury	0.1	J
4	Barium P	54 N	J	16	Nickel P	576 N	J
5	Beryllium P	1.0 U		17	Potassium P	[419]	
6	Cadmium P	[1.0]		18	Selenium F	0.4 UN	UJ
7	Calcium P	14100 *		19	Silver P	1.8 U	
8	Chromium P	310 *		20	Sodium P	[99]	
9	Cobalt P	[3.7]		21	Thallium F	0.4 UN	UJ
10	Copper P	143		22	Vanadium P	[8.5]	
11	Iron P	9082 *		23	Zinc P	301 *NE	J
12	Lead F	22 N	J		Percent Solids (%)	84	
	Cyanide	2.6 N	J				

or reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes xplaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

omments: MEDIUM BROWN SOIL

Kenneth Bond

Lab Manager

Kenneth Bond

FORM I

Client Sample No.
S-B-7-1

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-10

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	3295 *		13	Magnesium P	17700 E	J
2	Antimony P	12 UN	R	14	Manganese P	239 N*	J
3	Arsenic F	3.4 sN	UJ	15	Mercury	0.2	J
4	Barium P	[31]N	UJ	16	Nickel P	72 N	J
5	Beryllium P	1.1 U		17	Potassium P	[349]	
6	Cadmium P	[1.0]		18	Selenium F	0.4 UN	UJ
7	Calcium P	55200 *		19	Silver P	1.5 U	
8	Chromium P	53 *		20	Sodium P	[64]	
9	Cobalt P	[3.2]		21	Thallium F	0.4 UN	UJ
10	Copper P	46		22	Vanadium P	[10]	
11	Iron P	7480 *		23	Zinc P	43 *NE	J
12	Lead F	8.2			Percent Solids (%)	91	
	Cyanide	6.4 N	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 00001

FORM I

Client Sample No.
S-B-7-2A

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SDW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-06

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2489 *		13	Magnesium P	6722 E	J
2	Antimony P	12 UN	R	14	Manganese P	128 N*	J
3	Arsenic F	50 N	R	15	Mercury	0.4	J
4	Barium P	294 N	J	16	Nickel P	4520 N	J
5	Beryllium P	1.1 U		17	Potassium P	[584]	
6	Cadmium P	4.7		18	Selenium F	0.4 UN	UJ
7	Calcium P	31600 *		19	Silver P	1.9 U	
8	Chromium P	2572 *		20	Sodium P	[131]	
9	Cobalt P	[8.9]		21	Thallium F	0.4 UN	UJ
10	Copper P	4141		22	Vanadium P	[10]	
11	Iron P	28900 *	R	23	Zinc P	2029 *N E	J
12	Lead F	123 N			Percent Solids (%)	77	
	Cyanide	6.7 N	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 00000

FORM I

Client Sample No.
S-B-7-2B

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-05

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	3113 *		13	Magnesium P	6899 E	J
2	Antimony P	11 UN	R	14	Manganese P	95 N *	J
3	Arsenic F	8.4 UN	R	15	Mercury	0.8	J
4	Barium P	277 N	J	16	Nickel P	2061 N	J
5	Beryllium P	1.0 U		17	Potassium P	[651]	
6	Cadmium P	1.6		18	Selenium F	0.4 UN	UJ
7	Calcium P	32500 *		19	Silver P	1.8 U	
8	Chromium P	1440 *		20	Sodium P	[116]	
9	Cobalt P	[2.5]		21	Thallium F	0.4 UN	UJ
10	Copper P	1831		22	Vanadium P	[7.3]	
11	Iron P	6854 *		23	Zinc P	790 *NE	J
12	Lead P	140 N	R		Percent Solids (%)	80	
	Cyanide	56 N	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
S-B-7-3

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SOW NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-03

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	6266 *		13	Magnesium P	3686 E	J
2	Antimony P	14 UN	R	14	Manganese P	54 N *	J
3	Arsenic F	20 sN	J	15	Mercury	1.6	J
4	Barium P	97 N	J	16	Nickel P	1034 N	J
5	Beryllium P	1.3 U		17	Potassium P	[450]	
6	Cadmium P	12		18	Selenium F	0.5 UN	UJ
7	Calcium P	19800 *		19	Silver P	4.4	
8	Chromium P	3521 *		20	Sodium P	[118]	
9	Cobalt P	24		21	Thallium F	0.5 UN	UJ
10	Copper P	10100		22	Vanadium P	18	
11	Iron P	14200 *		23	Zinc P	599 *NE	J
12	Lead P	30 N	J		Percent Solids (%)	77	
	Cyanide	4.0 N	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 0000

FORM I

Client Sample No.
S-B-7-4

Date: 01-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2429

SDG NO.: 785

LAB RECEIPT DATE: 10-17-87

LAB SAMPLE ID. NO.: F2429-23

QC REPORT NO.: FCH-11

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2305 *	E.P	13	Magnesium P	1114 E	J
2	Antimony P	11 UN	R	14	Manganese P	29 N*	J
3	Arsenic F	27 sN	J	15	Mercury	0.1 U	J
4	Barium P	[25]N	J	16	Nickel P	85 N	J
5	Beryllium P	1.0 U		17	Potassium P	[397]	
6	Cadmium P	0.7 U		18	Selenium F	0.4 UN	UJ
7	Calcium P	5276 *		19	Silver P	1.7 U	
8	Chromium P	2071 *		20	Sodium P	[65]	
9	Cobalt P	[4.3]		21	Thallium F	0.4 UN	UJ
10	Copper P	617		22	Vanadium P	[6.7]	
11	Iron P	6776 *		23	Zinc P	24 *N E	J
12	Lead F	6.5			Percent Solids (%)	89	
	Cyanide	15 N	J				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 000026

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. D-W-1

Date 1-25-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
SOW NO. 785
LAB SAMPLE ID. NO. F2517-01

CASE NO. F2517
Lab Receipt Date 10-29-87
QC REPORT NO. FCM-17

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	906 N J	13.	Magnesium P	26700 E
2.	Antimony P	55u N	14.	Manganese P	29 N J
3.	Arsenic F	4.0u	15.	Mercury	0.2u
4.	Barium P	[54] N J	16.	Nickel P	[20] N J
5.	Beryllium P	5.0u N UJ	17.	Potassium P	[1320]
6.	Cadmium P	3.7u N	18.	Selenium F	2.0u
7.	Calcium P	73700 J	19.	Silver P	8.7u N
8.	Chromium P	13 N*	20.	Sodium P	20600
9.	Cobalt P	10u N UJ	21.	Thallium F	2.0u
10.	Copper P	77 N J	22.	Vanadium P	2.7u N
11.	Iron P	724 N J	23.	Zinc P	216 N J
12.	Lead F	5.0u N		Precent Solids (%)	NR

Cyanide 10u

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager [signature]

FORM I

Client Sample No.
SD-A1

Date: 02-01-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2546

SOW NO.: 785

LAB RECEIPT DATE: 11-02-87

LAB SAMPLE ID. NO.: F2546-04

QC REPORT NO.: FCH-21

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	959 *		13	Magnesium P	9016	
2	Antimony P	12 UN	R	14	Manganese P	207	
3	Arsenic F	2.2 U		15	Mercury	0.1 UN	
4	Barium P	[22]		16	Nickel P	[2.7]	
5	Beryllium P	1.1 U		17	Potassium P	[51]	
6	Cadmium P	0.8 U		18	Selenium F	0.4 U	
7	Calcium P	47600		19	Silver P	1.9 UN	R
8	Chromium P	17		20	Sodium P	[53]	
9	Cobalt P	2.2 U		21	Thallium F	0.4 U	
10	Copper P	[3.6]		22	Vanadium P	[1.1]	
11	Iron P	3668		23	Zinc P	31	
12	Lead F	15 sN	J		Percent Solids (%)	86	
	Cyanide	0.2 UN	R				

or reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 000007

FORM I

Client Sample No.
SD-A2

Date: 02-01-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2546

SOW NO.: 785

LAB RECEIPT DATE: 11-02-87

LAB SAMPLE ID. NO.: F2546-05

QC REPORT NO.: FCH-21

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	952 *		13	Magnesium P	3665	
2	Antimony P	15 UN	R	14	Manganese P	259	
3	Arsenic F	[1.8]		15	Mercury	0.1 UN	
4	Barium P	[22]		16	Nickel P	2.9 U	
5	Beryllium P	1.3 U		17	Potassium P	[64]	
6	Cadmium P	1.0 U		18	Selenium F	0.5 U	
7	Calcium P	23900		19	Silver P	2.3 UN	R
8	Chromium P	19		20	Sodium P	[74]	
9	Cobalt P	2.6 U		21	Thallium F	0.5 U	
10	Copper P	[4.2]		22	Vanadium P	0.7 U	
11	Iron P	3805		23	Zinc P	38	
12	Lead F	18 sN	J		Percent Solids (%)	67	
	Cyanide	0.3 UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000001

FORM I

Client Sample No.
SD-A3

Date: 02-01-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2546

_OW NO.: 785

LAB RECEIPT DATE: 11-02-87

'AB SAMPLE ID. NO.: F2546-06

QC REPORT NO.: FCH-21

Elements Identified and Measured
****

Concentration: L

_atrix: Soil

mg/kg dry weight

1	Aluminum P	1162 *		13	Magnesium P	5495	
2	Antimony P	12 UN	R	14	Manganese P	256	
3	Arsenic F	[2.0]		15	Mercury	0.1 UN	
4	Barium P	[19]		16	Nickel P	16	
5	Beryllium P	1.1 U		17	Potassium P	[87]	
6	Cadmium P	0.8 U		18	Selenium F	0.4 U	
7	Calcium P	29400		19	Silver P	1.9 UN	R
8	Chromium P	19		20	Sodium P	[74]	
9	Cobalt P	2.2 U		21	Thallium F	0.4 U	
10	Copper P	14		22	Vanadium P	[1.5]	
11	Iron P	4345		23	Zinc P	38	
12	Lead F	11 N	J	Percent Solids (%)		74	
	Cyanide	0.2 UN	R				

or reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

_mments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bo 000009

FORM I

Client Sample No.
SD-A4

Date: 02-01-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2546

SOW NO.: 785

LAB RECEIPT DATE: 11-03-87

LAB SAMPLE ID. NO.: F2546-07

QC REPORT NO.: FCH-21

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1377 *		13	Magnesium P	9219	
2	Antimony P	9.2 UN	R	14	Manganese P	192	
3	Arsenic F	2.0		15	Mercury	0.1 UN	
4	Barium P	[17]		16	Nickel P	[4.4]	
5	Beryllium P	0.8 U		17	Potassium P	[45]	
6	Cadmium P	0.6 U		18	Selenium F	0.3 U	
7	Calcium P	42800		19	Silver P	1.5 UN	R
8	Chromium P	16		20	Sodium P	[61]	
9	Cobalt P	1.7 U		21	Thallium F	0.3 U	
10	Copper P	6.0		22	Vanadium P	[3.0]	
11	Iron P	5784		23	Zinc P	23	
12	Lead F	13 sN	J		Percent Solids (%)	86	
	Cyanide	0.2 UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000010

FORM I

Client Sample No.
SD-B1

Date: 02-01-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2546

JOB NO.: 785

LAB RECEIPT DATE: 11-02-87

LAB SAMPLE ID. NO.: F2546-15

QC REPORT NO.: FCH-21

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1767 *		13	Magnesium P	12300	
2	Antimony P	11 UN	R	14	Manganese P	249	
3	Arsenic F	[2.0]		15	Mercury	0.2 N	J
4	Barium P	[17]		16	Nickel P	[7.6]	
5	Beryllium P	1.0 U		17	Potassium P	[100]	
6	Cadmium P	0.7 U		18	Selenium F	3.9 U	
7	Calcium P	39700		19	Silver P	1.7 UN	R
8	Chromium P	19		20	Sodium P	[41]	
9	Cobalt P	2.0 U		21	Thallium F	0.4 U	
10	Copper P	10		22	Vanadium P	[4.9]	
11	Iron P	14900		23	Zinc P	52	
12	Lead P	35			Percent Solids (%)	80	
	Cyanide	0.2 UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 000015

FORM I

Client Sample No.
SD-B1-D

Date: 02-01-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2546

SOW NO.: 785

LAB RECEIPT DATE: 11-02-87

LAB SAMPLE ID. NO.: F2546-20

QC REPORT NO.: FCH-21

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1161 *		13	Magnesium P	4660
2	Antimony P	14 UN	R	14	Manganese P	189
3	Arsenic F	2.5 U		15	Mercury	0.1 UN
4	Barium P	[20]		16	Nickel P	2.7 U
5	Beryllium P	1.2 U		17	Potassium P	[80]
6	Cadmium P	0.9 U		18	Selenium F	[0.7]
7	Calcium P	30700		19	Silver P	2.1 UN R
8	Chromium P	18		20	Sodium P	[61]
9	Cobalt P	2.5 U		21	Thallium F	0.5 U
10	Copper P	6.4		22	Vanadium P	[2.0]
11	Iron P	6561		23	Zinc P	46
12	Lead F	20 sN+			Percent Solids (%)	78
	Cyanide	0.3 UN	R			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager: Kenneth Bond

Kenneth Bond 000020

FORM I

Client Sample No.
SD-B2

Date: 02-01-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2546

SOW NO.: 785

LAB RECEIPT DATE: 11-02-87

LAB SAMPLE ID. NO.: F2546-01

QC REPORT NO.: FCH-21

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1200*		13	Magnesium P	13100	
2	Antimony P	12 UN	R	14	Manganese P	268	
3	Arsenic F	[2.0]		15	Mercury	0.1 N	J
4	Barium P	[26]		16	Nickel P	[2.9]	
5	Beryllium P	1.1 U		17	Potassium P	[74]	
6	Cadmium P	0.8 U		18	Selenium F	0.5 U	
7	Calcium P	46000		19	Silver P	2.0 UN	R
8	Chromium P	17		20	Sodium P	[102]	
9	Cobalt P	2.3 U		21	Thallium F	0.5 U	
10	Copper P	[2.0]		22	Vanadium P	[1.8]	
11	Iron P	4978		23	Zinc P	25	
12	Lead F	4.5 UN	R		Percent Solids (%)	83	
	Cyanide	0.2 UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
SD-B3

Date: 02-01-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2546

SOW NO.: 785

LAB RECEIPT DATE: 11-02-87

LAB SAMPLE ID. NO.: F2546-02

QC REPORT NO.: FCH-21

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2620*		13	Magnesium P	36500	
2	Antimony P	13 UN	R	14	Manganese P	254	
3	Arsenic F	5.6 s		15	Mercury	0.1 UN	
4	Barium P	62		16	Nickel P	13	
5	Beryllium P	1.2 U		17	Potassium P	[1952]	
6	Cadmium P	0.9 U		18	Selenium F	4.7 U	
7	Calcium P	81700		19	Silver P	2.0 UN	R
8	Chromium P	23		20	Sodium P	[92]	
9	Cobalt P	[3.5]		21	Thallium F	0.5 U	
10	Copper P	14		22	Vanadium P	15	
11	Iron P	13200		23	Zinc P	82	
12	Lead P	208			Percent Solids (%)	87	
	Cyanide	0.2 UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Kenneth Bond

Lab Manager

Kenneth Bond

000005

FORM I

Client Sample No.
SD-B4

Date: 02-01-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2546

SOW NO.: 785

LAB RECEIPT DATE: 11-02-87

LAB SAMPLE ID. NO.: F2546-03

QC REPORT NO.: FCH-21

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	2203*		13	Magnesium P	9687	
2	Antimony P	12 UN	R	14	Manganese P	282	
3	Arsenic F	[2.2] s		15	Mercury	0.7 N	J
4	Barium P	[20]		16	Nickel P	[5.2]	
5	Beryllium P	1.1 U		17	Potassium P	[199]	
6	Cadmium P	0.8 U		18	Selenium F	4.5 U	
7	Calcium P	45600		19	Silver P	1.9 UN	R
8	Chromium P	24		20	Sodium P	[56]	
9	Cobalt F	2.2 U		21	Thallium F	0.4 U	
10	Copper P	11		22	Vanadium P	[5.8]	
11	Iron P	19100		23	Zinc P	74	
12	Lead F	63			Percent Solids (%)	84	
	Cyanide	0.2 UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
SD-C1

Date: 02-01-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2546

SOW NO.: 785

LAB RECEIPT DATE: 11-02-87

LAB SAMPLE ID. NO.: F2546-14

QC REPORT NO.: FCH-21

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	960 *		13	Magnesium P	7502	
2	Antimony P	12 UN	R	14	Manganese P	177	
3	Arsenic F	[1.3]		15	Mercury	0.1 UN	
4	Barium P	[23]		16	Nickel P	[2.7]	
5	Beryllium P	1.1 U		17	Potassium P	[31]	
6	Cadmium P	0.8 U		18	Selenium F	4.2 U	
7	Calcium P	37500		19	Silver P	1.8 UN	R
8	Chromium P	19		20	Sodium P	[40]	
9	Cobalt P	2.1 U		21	Thallium F	0.4 U	
10	Copper P	[5.1]		22	Vanadium P	[1.5]	
11	Iron P	6193		23	Zinc P	56	
12	Lead P	43			Percent Solids (%)	88	
	Cyanide	0.2 UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
SD-C2

Date: 02-01-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2546

SOW NO.: 785

LAB RECEIPT DATE: 11-02-87

LAB SAMPLE ID. NO.: F2546-13

QC REPORT NO.: FCH-21

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	739 *	
2	Antimony P	11 UN	R
3	Arsenic F	3.5	
4	Barium P	[26]	
5	Beryllium P	1.0 U	
6	Cadmium P	0.7 U	
7	Calcium P	82100	
8	Chromium P	13	
9	Cobalt P	1.9 U	
10	Copper P	13	
11	Iron P	4747	
12	Lead F	15 sN+	J
	Cyanide	0.2 UN	R
13	Magnesium P	14000	
14	Manganese P	243	
15	Mercury	0.1 UN	
16	Nickel P	[3.1]	
17	Potassium P	[26]	
18	Selenium F	0.4 U	
19	Silver P	1.7 UN	R
20	Sodium P	[54]	
21	Thallium F	0.4 U	
22	Vanadium P	[1.3]	
23	Zinc P	27	
	Percent Solids (%)	86	

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 000013

FORM I

Client Sample No.
SD-C3

Date: 02-01-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2546

SOW NO.: 785

LAB RECEIPT DATE: 11-02-87

LAB SAMPLE ID. NO.: F2546-12

QC REPORT NO.: FCH-21

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	663 *		13	Magnesium P	8430	
2	Antimony P	10 UN	R	14	Manganese P	131	
3	Arsenic F	[1.9]		15	Mercury	0.1 N	J
4	Barium P	[26]		16	Nickel P	[2.8]	
5	Beryllium P	0.9 U		17	Potassium P	[58]	
6	Cadmium P	0.7 U		18	Selenium F	0.4 U	
7	Calcium P	37100		19	Silver P	1.6 UN	R
8	Chromium P	12		20	Sodium P	[105]	
9	Cobalt P	1.9 U		21	Thallium F	0.4 U	
10	Copper P	6.4		22	Vanadium P	[0.7]	
11	Iron P	4155		23	Zinc P	17	
12	Lead F	8.0 sN	J		Percent Solids (%)	84	
	Cyanide	0.2 UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
SD-C4

Date: 02-01-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2546

SOW NO.: 785

LAB RECEIPT DATE: 11-02-87

LAB SAMPLE ID. NO.: F2546-11

QC REPORT NO.: FCH-21

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	738 *		13	Magnesium P	9252	
2	Antimony P	12 UN	R	14	Manganese P	203	
3	Arsenic F	[2.0]		15	Mercury	0.1 UN	
4	Barium P	[21]		16	Nickel P	[5.5]	
5	Beryllium P	1.1 U		17	Potassium P	[45]	
6	Cadmium P	0.8 U		18	Selenium F	0.4 U	
7	Calcium P	40300		19	Silver P	1.9 UN	R
8	Chromium P	18		20	Sodium P	[48]	
9	Cobalt P	2.2 U		21	Thallium F	0.4 U	
10	Copper P	6.6		22	Vanadium P	[1.1]	
11	Iron P	5907		23	Zinc P	51	
12	Lead F	43			Percent Solids (%)	84	
	Cyanide	0.2 UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Kenneth Bond

Lab Manager

Kenneth Bond

FORM I

Client Sample No.
SD-D1

Date: 02-01-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2546

SOW NO.: 785

LAB RECEIPT DATE: 11-02-87

LAB SAMPLE ID. NO.: F2546-19

QC REPORT NO.: FCH-21

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1084 *		13	Magnesium P	7539	
2	Antimony P	12 UN	R	14	Manganese P	189	
3	Arsenic F	[1.5]		15	Mercury	2.9 N	J
4	Barium P	[19]		16	Nickel P	[3.6]	
5	Beryllium P	1.0 U		17	Potassium P	[79]	
6	Cadmium P	0.8 U		18	Selenium F	[0.6]	
7	Calcium P	26900		19	Silver P	1.8 UN	R
8	Chromium P	17		20	Sodium P	[189]	
9	Cobalt P	2.1 U		21	Thallium F	0.4 U	
10	Copper P	37		22	Vanadium P	[2.5]	
11	Iron P	4968		23	Zinc P	53	
12	Lead P	31			Percent Solids (%)	86	
	Cyanide	0.2 UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond 000015

FORM I

Client Sample No.
SD-D2

Date: 02-01-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2546

SOW NO.: 785

LAB RECEIPT DATE: 11-02-87

LAB SAMPLE ID. NO.: F2546-18

QC REPORT NO.: FCH-21

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1931 *		13	Magnesium P	11200	
2	Antimony P	11 UN	R	14	Manganese P	205	
3	Arsenic F	[1.6]		15	Mercury	0.2 N	J
4	Barium P	[30]		16	Nickel P	[4.7]	
5	Beryllium P	1.0 U		17	Potassium P	[164]	
6	Cadmium P	0.8 U		18	Selenium F	[0.6]	
7	Calcium P	62400		19	Silver P	1.8 UN	R
8	Chromium P	16		20	Sodium P	[77]	
9	Cobalt P	2.1 U		21	Thallium F	0.4 U	
10	Copper P	[3.5]		22	Vanadium P	[2.9]	
11	Iron P	5583		23	Zinc P	26	
12	Lead F	8.6 N	J		Percent Solids (%)	84	
	Cyanide	0.2 UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

FORM I

Client Sample No.
SD-D3

Date: 02-01-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2546

SOW NO.: 785

LAB RECEIPT DATE: 11-02-87

LAB SAMPLE ID. NO.: F2546-17

QC REPORT NO.: FCH-21

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1617 *		13	Magnesium P	24800	
2	Antimony P	13 UN	R	14	Manganese P	274	
3	Arsenic F	[2.1]		15	Mercury	0.2 N	J
4	Barium P	[17]		16	Nickel P	[6.8]	
5	Beryllium P	1.2 U		17	Potassium P	[81]	
6	Cadmium P	0.9 U		18	Selenium F	4.7 U	
7	Calcium P	68500		19	Silver P	2.0 UN	R
8	Chromium P	23		20	Sodium P	[74]	
9	Cobalt P	2.3 U		21	Thallium F	0.5 U	
10	Copper P	[4.7]		22	Vanadium P	[5.6]	
11	Iron P	7729		23	Zinc P	44	
12	Lead P	24			Percent Solids (%)	86	
	Cyanide	0.2 UN	R				

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Bond

Kenneth Bond

000017

FORM I

Client Sample No.
SD-D4

Date: 02-01-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME: Century Laboratories, Inc.

CASE NO.: F2546

JOB NO.: 785

LAB RECEIPT DATE: 11-02-87

LAB SAMPLE ID. NO.: F2546-16

QC REPORT NO.: FCH-21

Elements Identified and Measured
****

Concentration: L

Matrix: Soil

mg/kg dry weight

1	Aluminum P	1325 *	13	Magnesium P	6671
2	Antimony P	15 UN R	14	Manganese P	173
3	Arsenic F	[1.6]	15	Mercury	0.1 UN
4	Barium P	95	16	Nickel P	18
5	Beryllium P	1.3 U	17	Potassium P	[101]
6	Cadmium P	1.0 U	18	Selenium F	5.4 U
7	Calcium P	35100	19	Silver P	2.3 UN R
8	Chromium P	113	20	Sodium P	[55]
9	Cobalt P	2.7 U	21	Thallium F	0.5 U
10	Copper P	117	22	Vanadium P	[5.1]
11	Iron P	11100	23	Zinc P	81
12	Lead P	71		Percent Solids (%)	79
	Cyanide	0.3 UN R			

For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Kenneth Bond

Lab Manager

Kenneth Bond

000016

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
SD-E2

Date 1-27-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
CASE NO. F2532
SOW NO. 785
Lab Receipt Date 10-24-87
LAB SAMPLE ID. NO. F2532-05
QC REPORT NO. FLH-15

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ____ Soil ✓ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	2710 *	13.	Magnesium P	7670 E J
2.	Antimony P	14N R	14.	Manganese P	415 *
3.	Arsenic F	9.0	15.	Mercury	0.14
4.	Barium P	65N J	16.	Nickel P	19
5.	Beryllium P	1.2U	17.	Potassium P	[664]
6.	Cadmium P	1.6	18.	Selenium F	0.50UN UJ
7.	Calcium P	24600 *	19.	Silver P	2.2U
8.	Chromium P	27 *	20.	Sodium P	[125]
9.	Cobalt P	[4.4]	21.	Thallium F	0.50U
10.	Copper P	45	22.	Vanadium P	14
11.	Iron P	16700 *	23.	Zinc P	70 *E J
12.	Lead P	77		Precent Solids (%)	80
	Cyanide	0.23UN UJ			

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager [signature]

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IFB Amend. One

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
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703/557-2490 FTS: 8-557-2490

EPA Sample No.
50 - E3

Date 1-27-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
CASE NO. F2532
SOW NO. 785
Lab Receipt Date 10-29-87
LAB SAMPLE ID. NO. F2532-04
QC REPORT NO. FCH-15

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ____ Soil ✓ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	2470 *	13.	Magnesium P	4420 E J
2.	Antimony P	13 UN R	14.	Manganese P	228 *
3.	Arsenic F	5.9	15.	Mercury	0.18
4.	Barium P	[32] N J	16.	Nickel P	17
5.	Beryllium P	1.2 U	17.	Potassium P	[2007]
6.	Cadmium P	2.0	18.	Selenium F	0.47 UN UJ
7.	Calcium P	51000 *	19.	Silver P	2.1
8.	Chromium P	31 *	20.	Sodium P	[427]
9.	Cobalt P	[3.4]	21.	Thallium F	0.47
10.	Copper P	66	22.	Vanadium P	[11]
11.	Iron P	16200 *	23.	Zinc P	82 * E J
12.	Lead P	99		Precent Solids (%)	79

Cyanide 0.25 UN UJ

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager Kenneth Ford

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IFB Amend. One

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. SD-F1 ✓

Date 1-27-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
CASE NO. F2532
SOW NO. 785
Lab Receipt Date 10-26-87
LAB SAMPLE ID. NO. F2532-01
QC REPORT NO. FCH-15

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ____ Soil ✓ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	2550 *	13.	Magnesium P	4530 E J
2.	Antimony P	24u N R	14.	Manganese P	336 *
3.	Arsenic F	6.5	15.	Mercury	0.47
4.	Barium P	[60] N J	16.	Nickel P	12
5.	Beryllium P	0.2u	17.	Potassium P	[265]
6.	Cadmium P	1.6u	18.	Selenium F	0.46 Nu UJ
7.	Calcium P	27600 *	19.	Silver P	3.4u
8.	Chromium P	54 *	20.	Sodium P	[122]
9.	Cobalt P	4.3u	21.	Thallium F	0.46u
10.	Copper P	46	22.	Vanadium P	[6.9]
11.	Iron P	10700 *	23.	Zinc P	160 * E J
12.	Lead P	149		Precent Solids (%)	46
	Cyanide	0.63 Nu UJ			

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager [signature]

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. SD-F2

Date 1-27-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
SOW NO. 785
LAB SAMPLE ID. NO. F2532-06 02

CASE NO. F2532
Lab Receipt Date 10-29-87
QC REPORT NO. FCM-15

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ____ Soil ✓ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	1460 *	13.	Magnesium P	6220 E J
2.	Antimony P	14uN R	14.	Manganese P	172 *
3.	Arsenic F	2.4	15.	Mercury	[0.10]
4.	Barium P	[13] N	16.	Nickel P	[9.7]
5.	Beryllium P	1.3u	17.	Potassium P	[111]
6.	Cadmium P	[1.0]	18.	Selenium F	[1.1] 0.51uN UJ
7.	Calcium P	29600 *	19.	Silver P	2.2u
8.	Chromium P	22 *	20.	Sodium P	[40]
9.	Cobalt P	2.6u	21.	Thallium F	0.51u
10.	Copper P	11	22.	Vanadium P	[4.9]
11.	Iron P	6920 *	23.	Zinc P	39 * E J
12.	Lead P	31		Precent Solids (%)	73
	Cyanide	0.26uN UJ			

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager [signature]

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
SD-F3

Date 1-27-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
CASE NO. F2532
SOW NO. 785
Lab Receipt Date 10-25-87
LAB SAMPLE ID. NO. F2532-03
QC REPORT NO. FCH-15

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ____ Soil ✓ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	2090 *	13.	Magnesium P	10300 E J
2.	Antimony P	13U N R	14.	Manganese P	142 *
3.	Arsenic F	[2.4]	15.	Mercury	0.10U
4.	Barium P	[147 N J	16.	Nickel P	13
5.	Beryllium P	1.2U	17.	Potassium P	[94]
6.	Cadmium P	0.90U	18.	Selenium F	0.44UN UJ
7.	Calcium P	35600 *	19.	Silver P	2.1U
8.	Chromium P	23 *	20.	Sodium P	[92]
9.	Cobalt P	2.4U	21.	Thallium F	0.44U
10.	Copper P	9.0	22.	Vanadium P	[6.5]
11.	Iron P	6450 *	23.	Zinc P	37 * E J
12.	Lead P	26		Precent Solids (%)	60
	Cyanide	0.24UN UJ			

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: MEDIUM BROWN SOIL

Lab Manager [signature]

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IFB Amend. One

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
GW-WB

Date 1-29-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
CASE NO. F2552
SOW NO. 785
Lab Receipt Date 11-04-87
LAB SAMPLE ID. NO. F2532-03
QC REPORT NO. FCH-20

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	[31]	13.	Magnesium P	[44]
2.	Antimony P	55UN R	14.	Manganese P	7.7U
3.	Arsenic F	4.0U	15.	Mercury	0.2U
4.	Barium P	9.3U	16.	Nickel P	11U
5.	Beryllium P	5.0U	17.	Potassium P	[119]
6.	Cadmium P	3.7U	18.	Selenium F	2.0UN R
7.	Calcium P	[245]	19.	Silver P	8.7UN UJ
8.	Chromium P	4.0U R	20.	Sodium P	[603]
9.	Cobalt P	10U	21.	Thallium F	2.0U
10.	Copper P	113	22.	Vanadium P	2.7U
11.	Iron P	[69]	23.	Zinc P	[15]
12.	Lead F	20UE		Precent Solids (%)	NR
	Cyanide	10U			

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager [signature]

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IFB Amend. One

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
GW-W1

Date 1-29-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
CASE NO. F2552
SOW NO. 785
Lab Receipt Date 11-04-87
LAB SAMPLE ID. NO. F2532-06
QC REPORT NO. FCH-20

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	8.7u	13.	Magnesium P	41400
2.	Antimony P	55uN R	14.	Manganese P	16
3.	Arsenic F	4.0u	15.	Mercury	0.2u
4.	Barium P	[53]	16.	Nickel P	11u
5.	Beryllium P	5.0u	17.	Potassium P	5720
6.	Cadmium P	3.7u	18.	Selenium F	2.0uN R
7.	Calcium P	152000	19.	Silver P	8.7uN UJ
8.	Chromium P	[5.0]	20.	Sodium P	163000
9.	Cobalt P	10u	21.	Thallium F	2.0u
10.	Copper P	[6.0]	22.	Vanadium P	2.7u
11.	Iron P	60u	23.	Zinc P	[17]
12.	Lead F	2.0u		Precent Solids (%)	NR
	Cyanide	10u			

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Bond

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Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
GW-W2

Date 1-29-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
CASE NO. F2552
SOW NO. 785
Lab Receipt Date 11-04-87
LAB SAMPLE ID. NO. F2552-07
QC REPORT NO. FCH-20

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	74600	13.	Magnesium P	245000
2.	Antimony P	55UN R	14.	Manganese P	138000
3.	Arsenic F	31	15.	Mercury	1.5
4.	Barium P	4340	16.	Nickel P	3630
5.	Beryllium P	111	17.	Potassium P	11100
6.	Cadmium P	39	18.	Selenium F	20UN R
7.	Calcium P	961000	19.	Silver P	11N J
8.	Chromium P	1000	20.	Sodium P	133000
9.	Cobalt P	312	21.	Thallium F	20UE
10.	Copper P	473	22.	Vanadium P	[33]
11.	Iron P	46200	23.	Zinc P	655
12.	Lead P	56L		Precent Solids (%)	NR
	Cyanide	62			

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager [signature]

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Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
GW-W3A

Date 1-29-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
CASE NO. F2552
SOW NO. 785
Lab Receipt Date 11-04-87
LAB SAMPLE ID. NO. F2552-04
QC REPORT NO. FCH-20

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	[31]	13.	Magnesium P	24300
2.	Antimony P	55uN R	14.	Manganese P	1270
3.	Arsenic F	4.0u	15.	Mercury	0.2u
4.	Barium P	[20]	16.	Nickel P	270
5.	Beryllium P	5.0u	17.	Potassium P	20100
6.	Cadmium P	3.7u	18.	Selenium F	20uN R
7.	Calcium P	304000	19.	Silver P	5.7uN UJ
8.	Chromium P	4.0u	20.	Sodium P	66400
9.	Cobalt P	10u	21.	Thallium F	2.0u
10.	Copper P	5.7u	22.	Vanadium P	2.7u
11.	Iron P	34+	23.	Zinc P	27
12.	Lead F	20uE		Precent Solids (%)	NR
	Cyanide	129			

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Bond

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. GW-63B

Date 1-29-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
SOW NO. 785
LAB SAMPLE ID. NO. F2552-05

CASE NO. F2552
Lab Receipt Date 11-04-87
QC REPORT NO. FCH-20

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	8.7u	13.	Magnesium P	47200
2.	Antimony P	55uN R	14.	Manganese P	255
3.	Arsenic F	4.0u	15.	Mercury	0.2u
4.	Barium P	[47]	16.	Nickel P	211
5.	Beryllium P	5.0u	17.	Potassium P	[3410]
6.	Cadmium P	3.7u	18.	Selenium F	2.0uN R
7.	Calcium P	149000	19.	Silver P	8.7uN UJ
8.	Chromium P	[6.0]	20.	Sodium P	80300
9.	Cobalt P	10u	21.	Thallium F	2.0u
10.	Copper P	5.7u	22.	Vanadium P	2.7u
11.	Iron P	60u	23.	Zinc P	32
12.	Lead F	2.0u		Precent Solids (%)	NR
	Cyanide	13			

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Bond

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IFB Amend. One

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. GW-W4

Date 1-29-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
SOW NO. 785
LAB SAMPLE ID. NO. F2532-01

CASE NO. F2552
Lab Receipt Date 11-04-87
QC REPORT NO. FCH-20

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	[163]	13.	Magnesium P	64400
2.	Antimony P	55uN R	14.	Manganese P	70J R
3.	Arsenic F	12	15.	Mercury	0.2u
4.	Barium P	9.3u	16.	Nickel P	4410
5.	Beryllium P	5.0u	17.	Potassium P	114000
6.	Cadmium P	7.1	18.	Selenium F	20uN R
7.	Calcium P	230,000	19.	Silver P	8.7uN UJ
8.	Chromium P	27	20.	Sodium P	543000
9.	Cobalt P	10u	21.	Thallium F	20uE
10.	Copper P	501 R	22.	Vanadium P	2.7u
11.	Iron P	60u	23.	Zinc P	814 R
12.	Lead F	20uE R		Precent Solids (%)	NR

Cyanide 2700

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Bond

IFB Amend. One 000003

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
GW-W2D

Date 1-29-89

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
SOW NO. 785
LAB SAMPLE ID. NO. F2532-02

CASE NO. F2552
Lab Receipt Date 11-04-89
QC REPORT NO. FCH-20

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	P	13400	13.	Magnesium	P	59600
2.	Antimony	P	55UN R	14.	Manganese	P	1520 R
3.	Arsenic	F	33	15.	Mercury		0.2U
4.	Barium	P	[142]	16.	Nickel	P	52.50
5.	Beryllium	P	5.0U	17.	Potassium	P	114000
6.	Cadmium	P	6.7	18.	Selenium	F	20UN R
7.	Calcium	P	352000	19.	Silver	P	8.7UN UJ
8.	Chromium	P	475	20.	Sodium	P	551000
9.	Cobalt	P	10U	21.	Thallium	F	20U
10.	Copper	P	1000 R	22.	Vanadium	P	[19]
11.	Iron	P	40600	23.	Zinc	P	1790 R
12.	Lead	F	64 R		Precent Solids (%)		NR
	Cyanide		2450				

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Bond

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. GW-W5

Date 1-29-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
CASE NO. F2552
SOW NO. 785
Lab Receipt Date 11-04-87
LAB SAMPLE ID. NO. F2552-04
QC REPORT NO. FCH-20

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	[175]	13.	Magnesium P	37400
2.	Antimony P	55UN R	14.	Manganese P	1390
3.	Arsenic F	10U	15.	Mercury	0.2U
4.	Barium P	[14]	16.	Nickel P	2210
5.	Beryllium P	5.0U	17.	Potassium P	41200
6.	Cadmium P	3.7U	18.	Selenium F	20UN R
7.	Calcium P	224000	19.	Silver P	8.7UN WJ
8.	Chromium P	[6.0]	20.	Sodium P	132000
9.	Cobalt P	10U	21.	Thallium F	2.0U
10.	Copper P	[17]	22.	Vanadium P	2.7U
11.	Iron P	60U	23.	Zinc P	214
12.	Lead F	2.0U		Precent Solids (%)	NR
	Cyanide	40			

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Bond

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IFB Amend. One

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. GW-W6

Date 1-29-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
CASE NO. F2552
SOW NO. 785
Lab Receipt Date 11-04-87
LAB SAMPLE ID. NO. F2532-09
QC REPORT NO. FCH-20

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	33100	13.	Magnesium P	209000
2.	Antimony P	55UN R	14.	Manganese P	11200
3.	Arsenic F	47	15.	Mercury	0.9
4.	Barium P	720	16.	Nickel P	1350
5.	Beryllium P	6.5	17.	Potassium P	13400
6.	Cadmium P	23	18.	Selenium F	20UN R
7.	Calcium P	960,000	19.	Silver P	5.7UN UJ
8.	Chromium P	1310	20.	Sodium P	196000
9.	Cobalt P	76	21.	Thallium F	20UE
10.	Copper P	644	22.	Vanadium P	65
11.	Iron P	114000	23.	Zinc P	712
12.	Lead P	34 J		Precent Solids (%)	NR
	Cyanide	11			

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLGR L19410

Lab Manager Kenneth Bond

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IFB Amend. One

INORGANIC RESULTS

REPORT NO: F2552 UNITS: MG/L

QC NO: FCH-20

PARAMETER

SAMPLE ID:	HEXAVALENT CHROMIUM	TDS	TSS
GW-W4	.05U	3215	4376
GW-W4D	.05U	3070	1796
GW-WB	.05U	5	25
GW-W3A	.05U	1428	4712
GW-W3B	.05U	998	1226
GW-W1	.05U	1180	14448
GW-W2	.05U	987	6540
GW-W5	.05U	1508	3684
GW-W6	.05U	1548	8296

Form 1

Sample No.
GW-W1-2

Date 4-8-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories

SOW NO. 785

LAB SAMPLE ID. NO. 4474

CASE NO. FCH-880516/0520

Lab Receipt Date 3-10-88

QC REPORT NO. NA

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water ✓ Soil _____ Sludge _____ Other _____

(ug/l) or mg/kg dry weight (Circle One)

1.	Aluminum P	3460 0 E	13.	Magnesium P	117000 E
2.	Antimony P	53 UN	14.	Manganese P	5370 E
3.	Arsenic F	7.0 UN R	15.	Mercury	0.3 N
4.	Barium P	344	16.	Nickel P	225 E
5.	Beryllium P	4.2 U	17.	Potassium P	4310 E
6.	Cadmium P	13	18.	Selenium F	30 UN R
7.	Calcium P	427000	19.	Silver P	6.0 UN
8.	Chromium P	277 N	20.	Sodium P	140 000
9.	Cobalt P	71	21.	Thallium F	6.0 U
10.	Copper P	204 R	22.	Vanadium P	104 N
11.	Iron P	220000 E	23.	Zinc P	521
12.	Lead F	200 N		Precent Solids (%)	NR
	Cyanide	U		Cr^{+6}	-50U

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Bond

Form 1

Sample No.
GW-U2-2

Date 4-8-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories

CASE NO. FCH-880516/0520

SOW NO. 785

Lab Receipt Date 3-10-88

LAB SAMPLE ID. NO. 4475

QC REPORT NO. NA

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/l or mg/kg dry weight (Circle One)

1.	Aluminum	P	71700 E	13. Magnesium P	134000 E
2.	Antimony	P	53UN	14. Manganese P	31200 E
3.	Arsenic	F	11N	15. Mercury	[0.2]N
4.	Barium	P	4520	16. Nickel P	12300 E
5.	Beryllium	P	[4.9]	17. Potassium P	12000 E
6.	Cadmium	P	23	18. Selenium F	30UNR
7.	Calcium	P	44000	19. Silver P	6.0UN
8.	Chromium	P	599N	20. Sodium P	106000
9.	Cobalt	P	125	21. Thallium F	6.0U
10.	Copper	P	306 R	22. Vanadium P	174N
11.	Iron	P	274000 E	23. Zinc P	640
12.	Lead	F	230N	Precent Solids (%)	NR
Cyanide			U	Cr^{+6} - 130	

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Bond

Form 1

Sample No.
GW-W3A-2

Date 4-8-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories

CASE NO. FCH-880516/0520

SOW NO. 785

Lab Receipt Date 3-9-88

LAB SAMPLE ID. NO. 4468

QC REPORT NO. NA

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water ✓ Soil _____ Sludge _____ Other _____

ug/L or mg/kg dry weight (Circle One) 32900

1.	Aluminum P	5320 E	13.	Magnesium P	82900 E
2.	Antimony P	53u N	14.	Manganese P	1520 E
3.	Arsenic F	19 uNs	15.	Mercury	1.0 N
4.	Barium P	[76]	16.	Nickel P	1620 E
5.	Beryllium P	4.2u	17.	Potassium P	26000 E
6.	Cadmium P	4.3u	18.	Selenium F	30uN R
7.	Calcium P	328000	19.	Silver P	6.0u N
8.	Chromium P	748 N	20.	Sodium P	66800
9.	Cobalt P	[17]	21.	Thallium F	60u
10.	Copper P	492	22.	Vanadium P	6.0uN
11.	Iron P	36300 E	23.	Zinc P	1110
12.	Lead F	45 N		Precent Solids (%)	NR

Cyanide 110

Cr+6 - 50u

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Bond

IFB Amend. One

Form 1

Sample No.
GW-W3A-D-2

Date 4-8-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories

CASE NO. FCH-88616/0520

SOW NO. 785

Lab Receipt Date 3-9-88

LAB SAMPLE ID. NO. 4469

QC REPORT NO. NA

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/l or mg/kg dry weight (Circle One)

1.	Aluminum P	7130 E	13.	Magnesium P	34200 E
2.	Antimony P	53 u N	14.	Manganese P	1760 E
3.	Arsenic F	21 Ns	15.	Mercury	1.3 N
4.	Barium P	[101]	16.	Nickel P	1770 E
5.	Beryllium P	4.2 u	17.	Potassium P	24600 E
6.	Cadmium P	5.3	18.	Selenium F	30 UNE R
7.	Calcium P	335000	19.	Silver P	6.0 u N
8.	Chromium P	902 N	20.	Sodium P	77200
9.	Cobalt P	[21]	21.	Thallium F	6.0 u
10.	Copper P	606	22.	Vanadium P	6.0 u N
11.	Iron P	40000 E	23.	Zinc P	1240
12.	Lead F	57 Ns		Precent Solids (%)	NR

Cyanide 130

Cr^{+6} - 50u

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Bond

IFB Amend. One

000003

Form 1

Sample No.
GW-W3B-2

Date 4-8-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories

CASE NO. FCH-F10516/0520

SOW NO. 785

Lab Receipt Date 3-9-88

LAB SAMPLE ID. NO. 4467

QC REPORT NO. NA

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

(ug/L) or mg/kg dry weight (Circle One)

1.	Aluminum P	[64] E	13.	Magnesium P	46300 E
2.	Antimony P	53UN	14.	Manganese P	234 E
3.	Arsenic F	7.0UN R	15.	Mercury	0.2UN
4.	Barium P	[40]	16.	Nickel P	[32] E
5.	Beryllium P	4.2U - EP.	17.	Potassium P	[3460] E
6.	Cadmium P	[4.3]	18.	Selenium F	30UN R
7.	Calcium P	153000	19.	Silver P	6.0UN
8.	Chromium P (R)	[14] 19N	20.	Sodium P	74700
9.	Cobalt P	9.6U	21.	Thallium F	60U
10.	Copper P	[5.0]	22.	Vanadium P	6.0UN
11.	Iron P	2050 E	23.	Zinc P	[16]
12.	Lead F	8.0N		Precent Solids (%)	NR
	Cyanide	U		Cr^{+6} - 50U	

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Bond

Form 1

Sample No.
GW-W4-2

Date 4-8-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories

CASE NO. FCN-880616/0520

SOW NO. 785

Lab Receipt Date 8-9-88

LAB SAMPLE ID. NO. 4465

QC REPORT NO. NA

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water ✓ Soil _____ Sludge _____ Other _____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	7640 E	13.	Magnesium P	13400 E
2.	Antimony P	53u N	14.	Manganese P	1690 E
3.	Arsenic F	24 Ns	15.	Mercury	0.2uN
4.	Barium P	[37]	16.	Nickel P	11600 E
5.	Beryllium P	4.2u	17.	Potassium P	92600 E
6.	Cadmium P	16	18.	Selenium F	30uN R
7.	Calcium P	473000	19.	Silver P	6.0u N
8.	Chromium P	222 N	20.	Sodium P	294000
9.	Cobalt P	[40]	21.	Thallium F	6.0u
10.	Copper P	353 R	22.	Vanadium P	[14] N
11.	Iron P	16400 E	23.	Zinc P	4910
12.	Lead F	57 Ns		Precent Solids (%)	NR

Cyanide 50

Cr^{+6} - 50u

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Bond

Form 1

Sample No.
GW-WS-2

Date 4-8-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories

CASE NO. FCH-880616/0520

SOW NO. 785

Lab Receipt Date 8-9-88

LAB SAMPLE ID. NO. 4464

QC REPORT NO. NA

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	11000 E	13.	Magnesium P	58500 E
2.	Antimony P	53 U N	14.	Manganese P	1940 E
3.	Arsenic F	44 N S	15.	Mercury	2.7 N
4.	Barium P	[154]	16.	Nickel P	2450 E
5.	Beryllium P	4.2 U	17.	Potassium P	24300 E
6.	Cadmium P	11	18.	Selenium F	30 U N R
7.	Calcium P	361000	19.	Silver P	6.0 U N
8.	Chromium P	1370 N	20.	Sodium P	120000
9.	Cobalt P	[19]	21.	Thallium F	6.0 U
10.	Copper P	1150	22.	Vanadium P	[21] N
11.	Iron P	51900 E	23.	Zinc P	1090
12.	Lead F	61 N		Precent Solids (%)	NR
	Cyanide	40		Cr^{+6}	50 U

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Bond

Form 1

Sample No.
GW-W6-2

Date 4-8-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories

CASE NO. FCH-880516/0520

SOW NO. 785

Lab Receipt Date 3-10-88

LAB SAMPLE ID. NO. 4476

QC REPORT NO. NA

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

(ug/L) or mg/kg dry weight (Circle One)

1.	Aluminum P	36400 E	13.	Magnesium P	130,000 E
2.	Antimony P	53u N	14.	Manganese P	5120 E
3.	Arsenic F	27 Ns	15.	Mercury	0.3 N
4.	Barium P	746	16.	Nickel P	601 E
5.	Beryllium P	4.2u	17.	Potassium P	13100 E
6.	Cadmium P	16	18.	Selenium F	30 UNE R
7.	Calcium P	44000	19.	Silver P	6.0u N
8.	Chromium P	867 N	20.	Sodium P	153000
9.	Cobalt P	53	21.	Thallium F	6.0u
10.	Copper P	297 R	22.	Vanadium P	120 N
11.	Iron P	260000 E	23.	Zinc P	537
12.	Lead F	240 Ns		Precent Solids (%)	NR
	Cyanide	U		Cr^{+6} - 50u	

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager [signature]

IFB Amend. One

000021

Form 1

Sample No.
GW-WS-2

Date 4-5-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories

CASE NO. FCH-880516/0520

SOW NO. 785

Lab Receipt Date 3-9-88

LAB SAMPLE ID. NO. 4466

QC REPORT NO. NA

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water ✓ Soil _____ Sludge _____ Other _____

ug/l or mg/kg dry weight (Circle One)

1.	Aluminum P	24u E	13.	Magnesium P	[51] E
2.	Antimony P	53u N	14.	Manganese P	[12] E
3.	Arsenic F	7.0u N	15.	Mercury	0.2u N
4.	Barium P	8.3u	16.	Nickel P	10u E
5.	Beryllium P	4.2u	17.	Potassium P	131u E
6.	Cadmium P	4.3u	18.	Selenium F	3.0u N R
7.	Calcium P	39 [115]	19.	Silver P	6.0u N
8.	Chromium P	6.9u N	20.	Sodium P	[173]
9.	Cobalt P	9.6u	21.	Thallium F	60u
10.	Copper P	48	22.	Vanadium P	6.0u N
11.	Iron P	[74] E	23.	Zinc P	6.2u
12.	Lead F	4.0u N		Precent Solids (%)	NR
	Cyanide	U		Cr^{+6}	50u

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Ford

IFB Amend. One

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. SWA-1

Date 1-29-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
SOW NO. 785
LAB SAMPLE ID. NO. F2530-01

CASE NO. F2530
Lab Receipt Date 10-30-87
QC REPORT NO. FC4-17

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	[45]	13.	Magnesium P	22200
2.	Antimony P	55u	14.	Manganese P	49
3.	Arsenic F	4.0u	15.	Mercury	0.2u
4.	Barium P	[54]	16.	Nickel P	11u
5.	Beryllium P	5.0u	17.	Potassium P	[1450]
6.	Cadmium P	3.7u	18.	Selenium F	2.0u
7.	Calcium P	74000	19.	Silver P	8.7uN UJ
8.	Chromium P	7.0	20.	Sodium P	17100
9.	Cobalt P	10u	21.	Thallium F	2.0u
10.	Copper P	[1.0]	22.	Vanadium P	2.7u
11.	Iron P	463	23.	Zinc P	13
12.	Lead F	2.0u		Precent Solids (%)	NR
	Cyanide	NR			

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager [signature]

000003

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
SW-A1

Date 2-01-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
SOW NO. 785
LAB SAMPLE ID. NO. F2546-01

CASE NO. F2546
Lab Receipt Date 11-02-87
QC REPORT NO. FCH-21

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	13.	Magnesium P
2.	Antimony P	14.	Manganese P
3.	Arsenic F	15.	Mercury
4.	Barium P	16.	Nickel P
5.	Beryllium P	17.	Potassium P
6.	Cadmium P	18.	Selenium F
7.	Calcium P	19.	Silver P
8.	Chromium P	20.	Sodium P
9.	Cobalt P	21.	Thallium F
10.	Copper P	22.	Vanadium P
11.	Iron P	23.	Zinc P
12.	Lead		Precent Solids (%) NA

Cyanide 10u R

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR WATER

Lab Manager [signature]

000021

IFB Amend. One

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
SWA - 4

Date 1-29-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
SOW NO. 785
LAB SAMPLE ID. NO. F2530-02

CASE NO. F2530
Lab Receipt Date 10-30-87
QC REPORT NO. FCH-1F

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	P	[20]	13. Magnesium	P	22200
2.	Antimony	P	55u	14. Manganese	P	43
3.	Arsenic	F	4.0u	15. Mercury		0.2u
4.	Barium	P	[53]	16. Nickel	P	11u
5.	Beryllium	P	5.0u	17. Potassium	P	[1920]
6.	Cadmium	P	3.7u	18. Selenium	F	2.0u
7.	Calcium	P	73900	19. Silver	P	8.7uN UJ
8.	Chromium	P	[4.0]	20. Sodium	P	17200
9.	Cobalt	P	10u	21. Thallium	F	2.0u
10.	Copper	P	[7.0]	22. Vanadium	P	2.7u
11.	Iron	P	363	23. Zinc	P	[12]
12.	Lead	F	2.0u	Precent Solids (%)		NR

Cyanide NR

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager [signature]

000010

IFB Amend. One

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. SW-A4

Date 2-1-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
CASE NO. F2546
SOW NO. 785
Lab Receipt Date 11-2-87
LAB SAMPLE ID. NO. F2546-09
QC REPORT NO. FCH-21

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/l or mg/kg dry weight (Circle One)

1.	Aluminum P	13.	Magnesium P
2.	Antimony P	14.	Manganese P
3.	Arsenic F	15.	Mercury
4.	Barium P	16.	Nickel P --
5.	Beryllium P	17.	Potassium P -
6.	Cadmium P	18.	Selenium F --
7.	Calcium P	19.	Silver P
8.	Chromium P	20.	Sodium P
9.	Cobalt P	21.	Thallium F
10.	Copper P	22.	Vanadium P
11.	Iron P	23.	Zinc P
12.	Lead		Precent Solids (%) NR

Cyanide 10u R

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR WATER

Lab Manager Kenneth Bond

000022

IFB Amend. One

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
SWA-4D

Date 1-29-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
SOW NO. 785
LAB SAMPLE ID. NO. F2530-03

CASE NO. F2530
Lab Receipt Date 10-30-87
QC REPORT NO. FCH-1V

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	[30]	13.	Magnesium P	21400
2.	Antimony P	55U	14.	Manganese P	37
3.	Arsenic F	4.0U	15.	Mercury	0.2U
4.	Barium P	[51]	16.	Nickel P	11U
5.	Beryllium P	5.0U	17.	Potassium P	[1450]
6.	Cadmium P	3.7U	18.	Selenium F	2.0U UJ
7.	Calcium P	72600	19.	Silver P	8.7UN
8.	Chromium P	[6.0]	20.	Sodium P	16400
9.	Cobalt P	10U	21.	Thallium F	2.0U
10.	Copper P	[9.0]	22.	Vanadium P	2.7U
11.	Iron P	291	23.	Zinc P	27
12.	Lead F	20U		Precent Solids (%)	NR

Cyanide NR

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager [signature]

000005

IFB Amend. One

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
SW-A4D

Date 2-1-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
CASE NO. F2546
SOW NO. 785
Lab Receipt Date 11-2-87
LAB SAMPLE ID. NO. F2546-10
QC REPORT NO. FCH-21

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	13.	Magnesium P
2.	Antimony P	14.	Manganese P
3.	Arsenic F	15.	Mercury
4.	Barium P	16.	Nickel P
5.	Beryllium P	17.	Potassium P
6.	Cadmium P	18.	Selenium F
7.	Calcium P	19.	Silver P
8.	Chromium P	20.	Sodium P
9.	Cobalt P	21.	Thallium F
10.	Copper P	22.	Vanadium P
11.	Iron P	23.	Zinc P
12.	Lead		Precent Solids (%) NR

Cyanide 10U R

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager [signature]

000023

IFB Amend. One

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
SWA - D1

Date 1-29-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
SOW NO. 785
LAB SAMPLE ID. NO. F2530-01

CASE NO. F2530
Lab Receipt Date 10-30-87
QC REPORT NO. FCH-1F

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	219	13.	Magnesium P	22200
2.	Antimony P	55u	14.	Manganese P	58
3.	Arsenic F	4.0u	15.	Mercury	0.2u
4.	Barium P	[59]	16.	Nickel P	60
5.	Beryllium P	5.0u	17.	Potassium P	[2440]
6.	Cadmium P	13	18.	Selenium F	2.0u
7.	Calcium P	76600	19.	Silver P	27N J
8.	Chromium P	39	20.	Sodium P	15900
9.	Cobalt P	[27]	21.	Thallium F	2.0u
10.	Copper P	32	22.	Vanadium P	[25]
11.	Iron P	527	23.	Zinc P	26
12.	Lead P	193		Precent Solids (%)	NR

Cyanide NR

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager Kenneth Ford

Form 1

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
SW-D1

Date 2-1-44

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
CASE NO. F2546
SOW NO. 785
Lab Receipt Date 11-2-89
LAB SAMPLE ID. NO. F2546-22
QC REPORT NO. FCA-21

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	13.	Magnesium P
2.	Antimony P	14.	Manganese P
3.	Arsenic F	15.	Mercury
4.	Barium P	16.	Nickel P
5.	Beryllium P	17.	Potassium P
6.	Cadmium P	18.	Selenium F
7.	Calcium P	19.	Silver P
8.	Chromium P	20.	Sodium P
9.	Cobalt P	21.	Thallium F
10.	Copper P	22.	Vanadium P
11.	Iron P	23.	Zinc P
12.	Lead		Precent Solids (%) NR

Cyanide 17 R

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager [signature]

000025

IFB Amend. One

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. SWA-D4

Date 1-29-88

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
SOW NO. 785
LAB SAMPLE ID. NO. F2530-05

CASE NO. F2530
Lab Receipt Date 10-30-87
QC REPORT NO. FCH-1

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	207	13.	Magnesium P	22300
2.	Antimony P	55u	14.	Manganese P	48
3.	Arsenic F	4.0u	15.	Mercury	0.2u
4.	Barium P	[547]	16.	Nickel P	61
5.	Beryllium P	5.0u	17.	Potassium P	[2420]
6.	Cadmium P	12	18.	Selenium F	2.0u
7.	Calcium P	77000	19.	Silver P	24N J
8.	Chromium P	37	20.	Sodium P	15700
9.	Cobalt P	[247]	21.	Thallium F	2.0u
10.	Copper P	32	22.	Vanadium P	[25]
11.	Iron P	392	23.	Zinc P	[26]
12.	Lead P	199		Precent Solids (%)	NR

Cyanide NR

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager [signature]

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. SW-24

Date 2-1-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME Century Laboratories
CASE NO. F2546
SOW NO. 785
Lab Receipt Date 11-2-87
LAB SAMPLE ID. NO. F2546-21
QC REPORT NO. FCH-21

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum P	13.	Magnesium P
2.	Antimony P	14.	Manganese P
3.	Arsenic F	15.	Mercury
4.	Barium P	16.	Nickel P
5.	Beryllium P	17.	Potassium P
6.	Cadmium P	18.	Selenium F
7.	Calcium P	19.	Silver P
8.	Chromium P	20.	Sodium P
9.	Cobalt P	21.	Thallium F
10.	Copper P	22.	Vanadium P
11.	Iron P	23.	Zinc P
12.	Lead		Precent Solids (%) NR

Cyanide 10u R

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: CLEAR LIQUID

Lab Manager [signature]

000024

IFB Amend. One

INORGANIC RESULTS

REPORT NO: F2530 UNITS: MG/L

QC NO: FCH-18

PARAMETER

SAMPLE ID:	HEXAVALENT CHROMIUM	TDS	TSS
SWA-1	.05U	311	12
SWA-4	.05U	358	1
SWA-4D	.05U	345	4
SWA-D1 SWD1	.05U	303	8
~~SWA-D4~~ SWD4	.05U	360	4

Client: CENTURY LABORATORIES
Job Number: 75582
Sample ID: S-6-1-4 (75582-1)

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Med
Date Analyzed: 10-10-87
Percent Moisture (Not Decanted): 28

Date Extracted/Prepared: 10-10-87
Dond/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	1700	U	78-87-5	1,2-Dichloropropane	670	U
74-83-9	Bromomethane	1700	U	10061-02-6	Trans-1,3-Dichloropropene	670	U
75-01-4	Vinyl Chloride	1700	U	79-01-6	Trichloroethene	670	U
75-00-3	Chloroethane	1700	U	124-48-1	Dibromochloromethane	670	U
75-09-2	Methylene Chloride	670		79-00-5	1,1,2-Trichloroethane	670	U
67-64-1	Acetone	1700	U	71-43-2	Benzene	670	U
75-15-0	Carbon Disulfide	670	U	10061-01-5	cis-1,3-Dichloropropene	670	U
75-35-4	1,1-Dichloroethene	670	U	110-75-8	2-Chloroethylvinylether	1700	U
75-34-3	1,1-Dichloroethane	670	U	75-25-2	Bromoform	670	U
156-60-5	Trans-1,2-Dichloroethene	670	U	591-78-6	4-Methyl-2-Pentanone	1700	U
67-77-3	Chloroform	670	U	108-10-1	2-Hexanone	1700	U
107-06-2	1,2-Dichloroethane	670	U	127-18-4	Tetrachloroethene	3100	
78-93-3	2-Butanone	9500		79-34-5	1,1,2,2-Tetrachloroethane	670	U
71-55-6	1,1,1-Trichloroethane	670	U	108-88-3	Toluene	8000	
56-23-5	Carbon Tetrachloride	670	U	108-90-7	Chlorobenzene	670	U
108-05-4	Vinyl Acetate	1700	U	100-41-4	Ethylbenzene	4200	
75-27-4	Bromodichloromethane	670	U	100-42-5	Styrene	5400	
					Total Xylenes	31000	

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g., if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J).

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: [illegible]
Job Number: 75596
Sample ID: [illegible] (75596-4

[illegible] Laboratory, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 10-25-87
Percent Moisture (Not Decanted): 5

Date Extracted/Prepared: 10-25-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	11	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	11	U	10061-02-6	Trans-1,3-Dichloropropene	5	U
75-01-4	Vinyl Chloride	11	U	79-01-6	Trichloroethene	5	U
75-00-3	Chloroethane	11	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	5	U	79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	11	U	71-43-2	Benzene	1	J
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	U
75-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethyl vinyl ether	11	U
75-34-3	1,1-Dichloroethane	5	U	75-25-2	Bromoform	5	
156-60-5	Trans-1,2-Dichloroethene	5	U	591-78-6	4-Methyl-2-Pentanone	11	
67-66-3	Chloroform	5	U	108-10-1	2-Hexanone	11	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	5	U
78-93-3	2-Butanone	57		79-34-5	1,1,2,2-Tetrachloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	5	
56-23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
108-05-4	Vinyl Acetate	11	U	100-41-4	Ethylbenzene	5	U
75-27-4	Bromodichloromethane	5	U	100-42-5	Styrene	5	U
					Total Xylenes	5	U

Data Reporting Qualifiers

value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75598
Sample ID: 5-B-2-5 (75598-6)

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 10-25-87
Percent Moisture (Not Decanted): 13

Date Extracted/Prepared: 10-25-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	11	U	78-87-5	1,2-Dichloropropane	6	U
74-83-9	Bromomethane	11	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
75-01-4	Vinyl Chloride	11	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	11	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	2	J	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	11	U	71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	11	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	U
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	11	U
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	11	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
78-93-3	2-Butanone	11	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	6	U
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	11	U	100-41-4	Ethylbenzene	6	U
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75596
Sample ID: S-B-2-6 (75596-1)

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 10-25-87
Percent Moisture (Not Decanted): 14

Date Extracted/Prepared: 10-25-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	12	U	78-87-5	1,2-Dichloropropane	6	U
74-83-9	Bromomethane	12	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
75-01-4	Vinyl Chloride	12	U	79-01-6	Trichloroethene	34	
75-00-3	Chloroethane	12	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	6	U	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	76		71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	12	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	12	
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	12	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
78-93-3	2-Butanone	12	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	6	U
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	12	U	100-41-4	Ethylbenzene	6	U
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75598
Sample ID: S-B-2-7 (75598-2)

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: LOW
Date Analyzed: 10-25-87
Percent Moisture (Not Decanted): 11

Date Extracted/Prepared: 10-25-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	11	U	78-87-5	1,2-Dichloropropane	6	U
74-83-9	Bromomethane	11	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
75-01-4	Vinyl Chloride	11	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	11	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	2	J	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	11	U	71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	11	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	U
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	11	U
67-66-3	Chloroform	6	U	108-10-1	2-Hexanone	11	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	-
78-93-3	2-Butanone	3	J	79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	6	U
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	11	U	100-41-4	Ethylbenzene	6	U
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	U

Data Reporting Qualifiers

value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

- Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75596
Sample ID: S-B-2-8 (75596-3)

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 10-25-87
Percent Moisture (Not Decanted): 10

Date Extracted/Prepared: 10-25-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	11	U	78-87-5	1,2-Dichloropropane	6	U
74-83-9	Bromomethane	11	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
75-01-4	Vinyl Chloride	11	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	11	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	2	J	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	11	U	71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	11	
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	11	U
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	11	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
78-93-3	2-Butanone	33		79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	6	U
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	11	U	100-41-4	Ethylbenzene	6	U
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Summary

Client: CENTURY LABORATORIES INC.
Job Number: 75577
Sample ID: 5-W-1-1 (75577-1)

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: LOW
Date Analyzed: 10-10-87
Percent Moisture (Not Decanted): 9

Date Extracted/Prepared: 10-10-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	11	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	11	U	10061-02-6	Trans-1,3-Dichloropropene	5	U
75-01-4	Vinyl Chloride	11	U	79-01-6	Trichloroethene	5	U
75-00-3	Chloroethane	11	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	5	U	79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	21	B	71-43-2	Benzene	5	U
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	U
75-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethylvinylether	11	U
75-34-3	1,1-Dichloroethane	5	U	75-25-2	Bromoform	5	U
156-60-5	Trans-1,2-Dichloroethene	5	U	591-78-6	4-Methyl-2-Pentanone	11	U
67-77-3	Chloroform	5	U	108-10-1	2-Hexanone	11	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	5	U
78-93-3	2-Butanone	11	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	5	U
56-23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
108-05-4	Vinyl Acetate	11	U	100-41-4	Ethylbenzene	5	U
75-27-4	Bromodichloromethane	5	U	100-42-5	Styrene	5	U
					Total Xylenes	5	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicates the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES INC.
Job Number: 75577
Sample ID: S-W-1-2

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 10-10-87
Percent Moisture (Not Decanted): 8

Date Extracted/Prepared: 10-10-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	11	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	11	U	10061-02-6	Trans-1,3-Dichloropropene	5	U
75-01-4	Vinyl Chloride	11	U	79-01-6	Trichloroethene	5	U
75-00-3	Chloroethane	11	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	5	U	79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	11	U	71-43-2	Benzene	5	U
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	
75-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethylvinylether	11	U
75-34-3	1,1-Dichloroethane	5	U	75-25-2	Bromoform	5	U
156-60-5	Trans-1,2-Dichloroethene	5	U	591-78-6	4-Methyl-2-Pentanone	11	U
67-77-3	Chloroform	5	U	108-10-1	2-Hexanone	11	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	5	U
78-93-3	2-Butanone	11	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	5	U
56-23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
108-05-4	Vinyl Acetate	11	U	100-41-4	Ethylbenzene	5	U
75-27-4	Bromodichloromethane	5	U	100-42-5	Styrene	5	U
					Total Xylenes	5	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES INC.
Job Number: 75577
Sample ID: S-W-1-3 (75577-3)

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 10-10-87
Percent Moisture (Not Decanted): 11

Date Extracted/Prepared: 10-10-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	11	U	78-87-5	1,2-Dichloropropane	6	U
74-83-9	Bromomethane	11	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
75-01-4	Vinyl Chloride	11	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	11	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	1	J	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	20	B	71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	11	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	U
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	11	U
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	11	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
78-93-3	2-Butanone	11	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	2	J
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	11	U	100-41-4	Ethylbenzene	6	U
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicates the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES INC.
Job Number: 75577
Sample ID: S-W-1-4

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 10-10-87
Percent Moisture (Not Decanted): 13

Date Extracted/Prepared: 10-10-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	11	U	78-87-5	1,2-Dichloropropane	6	U
74-83-9	Bromomethane	11	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
75-01-4	Vinyl Chloride	11	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	11	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	1	J	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	20	B	71-43-2	Benzene	6	
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	11	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	U
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	11	U
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	11	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	1	J
78-93-3	2-Butanone	11	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	6	U
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	11	U	100-41-4	Ethylbenzene	6	U
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES INC.
Job Number: 75577
Sample ID: S-W-1-5

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 10-10-87
Percent Moisture (Not Decanted): 13

Date Extracted/Prepared: 10-10-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	11	U	78-87-5	1,2-Dichloropropane	6	U
74-83-9	Bromomethane	11	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
75-01-4	Vinyl Chloride	11	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	11	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	2	J	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	11	U	71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	11	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	U
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	11	U
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	11	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	1	J
78-93-3	2-Butanone	11	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	6	U
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	11	U	100-41-4	Ethylbenzene	6	U
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES INC.
Job Number: 75577
Sample ID: S-W-1-6

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 10-11-87
Percent Moisture (Not Decanted): 12

Date Extracted/Prepared: 10-11-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	11	U	78-87-5	1,2-Dichloropropane	6	U
74-83-9	Bromomethane	11	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
75-01-4	Vinyl Chloride	11	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	11	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	6	U	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	74	B	71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	11	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	U
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	11	U
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	11	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
78-93-3	2-Butanone	55		79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	6	U
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	11	U	100-41-4	Ethylbenzene	6	U
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

ent: CENTURY LABORATORIES
Job Number: 75621
ample ID: S-W-3B-1

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 10-31-87
Percent Moisture (Not Decanted): 11

Date Extracted/Prepared: 10-31-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	11	U	78-87-5	1,2-Dichloropropane	6	U
74-83-9	Bromomethane	11	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
75-01-4	Vinyl Chloride	11	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	11	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	2	J	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	7	J	71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	11	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	U
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	11	U
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	11	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
78-93-3	2-Butanone	11	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	6	U
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	11	U	100-41-4	Ethylbenzene	6	U
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75621
Sample ID: S-W-3B-2

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 10-31-87
Percent Moisture (Not Decanted): 15

Date Extracted/Prepared: 10-31-87
Conc/Dil Factor: 2.5

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	29	U	78-87-5	1,2-Dichloropropane	15	U
74-83-9	Bromomethane	29	U	10061-02-6	Trans-1,3-Dichloropropene	15	U
75-01-4	Vinyl Chloride	29	U	79-01-6	Trichloroethene	35	
75-00-3	Chloroethane	29	U	124-48-1	Dibromochloromethane	15	U
75-09-2	Methylene Chloride	18		79-00-5	1,1,2-Trichloroethane	15	U
67-64-1	Acetone	110		71-43-2	Benzene	3	J
75-15-0	Carbon Disulfide	3	J	10061-01-5	cis-1,3-Dichloropropene	15	U
75-35-4	1,1-Dichloroethene	15	U	110-75-8	2-Chloroethylvinylether	29	U
75-34-3	1,1-Dichloroethane	15	U	75-25-2	Bromoform	15	
156-60-5	Trans-1,2-Dichloroethene	15	U	591-78-6	4-Methyl-2-Pentanone	29	U
67-77-3	Chloroform	3	J	108-10-1	2-Hexanone	29	U
107-06-2	1,2-Dichloroethane	15	U	127-18-4	Tetrachloroethene	12	J
78-93-3	2-Butanone	85		79-34-5	1,1,2,2-Tetrachloroethane	15	U
71-55-6	1,1,1-Trichloroethane	6	J	108-88-3	Toluene	65	
56-23-5	Carbon Tetrachloride	15	U	108-90-7	Chlorobenzene	15	U
108-05-4	Vinyl Acetate	29	U	100-41-4	Ethylbenzene	6	J
75-27-4	Bromodichloromethane	15	U	100-42-5	Styrene	15	U
					Total Xylenes	44	x

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compuonds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets idenitfication criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75621
Sample ID: S-W-3B-36

S-W-3B-3A

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 10-31-87
Percent Moisture (Not Decanted): 19

Date Extracted/Prepared: 10-31-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	12	U	78-87-5	1,2-Dichloropropane	6	U
74-83-9	Bromomethane	12	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
75-01-4	Vinyl Chloride	12	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	12	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	4	J	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	12	U	71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	12	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	U
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	12	U
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	12	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
78-93-3	2-Butanone	12	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	1	J
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	12	U	100-41-4	Ethylbenzene	6	U
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compuonds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets idenitfication criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75621
Sample ID: S-W-38-39

S-W-38-38

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 10-31-87
Percent Moisture (Not Decanted): 17

Date Extracted/Prepared: 10-31-87
Conc/Dil Factor: 10

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	120	U	78-87-5	1,2-Dichloropropane	60	U
74-83-9	Bromomethane	120	U	10061-02-6	Trans-1,3-Dichloropropene	60	U
75-01-4	Vinyl Chloride	120	U	79-01-6	Trichloroethene	95	
75-00-3	Chloroethane	120	U	124-48-1	Dibromochloromethane	60	U
75-09-2	Methylene Chloride	24	J	79-00-5	1,1,2-Trichloroethane	60	U
67-64-1	Acetone	120	U	71-43-2	Benzene	60	U
75-15-0	Carbon Disulfide	60		10061-01-5	cis-1,3-Dichloropropene	60	U
75-35-4	1,1-Dichloroethene	60	U	110-75-8	2-Chloroethylvinylether	120	U
75-34-3	1,1-Dichloroethane	60	U	75-25-2	Bromoform	60	
156-60-5	Trans-1,2-Dichloroethene	48	J	591-78-6	4-Methyl-2-Pentanone	120	
67-77-3	Chloroform	60	U	108-10-1	2-Hexanone	120	U
107-06-2	1,2-Dichloroethane	60	U	127-18-4	Tetrachloroethene	60	U
78-93-3	2-Butanone	300		79-34-5	1,1,2,2-Tetrachloroethane	60	U
71-55-6	1,1,1-Trichloroethane	60	U	108-88-3	Toluene	12	J
56-23-5	Carbon Tetrachloride	60	U	108-90-7	Chlorobenzene	60	U
108-05-4	Vinyl Acetate	120	U	100-41-4	Ethylbenzene	60	U
75-27-4	Bromodichloromethane	60	U	100-42-5	Styrene	60	U
					Total Xylenes	60	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meets idenitfication criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75582
Sample ID: 5-6-3-4 (75582-2)

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 10-11-87
Percent Moisture (Not Decanted): 33

Date Extracted/Prepared: 10-11-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	15	U	78-87-5	1,2-Dichloropropane	7	U
74-83-9	Bromomethane	15	U	10061-02-6	Trans-1,3-Dichloropropene	7	U
75-01-4	Vinyl Chloride	15	U	79-01-6	Trichloroethene	7	U
75-00-3	Chloroethane	15	U	124-48-1	Dibromochloromethane	7	U
75-09-2	Methylene Chloride	7	U	79-00-5	1,1,2-Trichloroethane	7	U
67-64-1	Acetone	10	J	71-43-2	Benzene	7	U
75-15-0	Carbon Disulfide	7	U	10061-01-5	cis-1,3-Dichloropropene	7	U
75-35-4	1,1-Dichloroethene	7	U	110-75-8	2-Chloroethylvinylether	15	U
75-34-3	1,1-Dichloroethane	7	U	75-25-2	Bromoform	7	U
156-60-5	Trans-1,2-Dichloroethene	7	U	591-78-6	4-Methyl-2-Pentanone	15	U
67-77-3	Chloroform	7	U	108-10-1	2-Hexanone	15	U
107-06-2	1,2-Dichloroethane	7	U	127-18-4	Tetrachloroethene	7	U
78-93-3	2-Butanone	5	J	79-34-5	1,1,2,2-Tetrachloroethane	7	U
71-55-6	1,1,1-Trichloroethane	7	U	108-88-3	Toluene	7	U
56-23-5	Carbon Tetrachloride	7	U	108-90-7	Chlorobenzene	7	U
108-05-4	Vinyl Acetate	15	U	100-41-4	Ethylbenzene	7	U
75-27-4	Bromodichloromethane	7	U	100-42-5	Styrene	7	U
					Total Xylenes	7	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

D This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectra data indicates the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75621
Sample ID: S-W-36-4

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 10-31-87
Percent Moisture (Not Decanted): 13

Date Extracted/Prepared: 10-31-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	11	U	78-87-5	1,2-Dichloropropane	6	U
74-83-9	Bromomethane	11	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
75-01-4	Vinyl Chloride	11	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	11	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	5	J	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	39		71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	25		10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	11	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	
156-60-5	Trans-1,2-Dichloroethene	7		591-78-6	4-Methyl-2-Pentanone	11	U
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	11	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
78-93-3	2-Butanone	37		79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	8		108-88-3	Toluene	14	
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	11	U	100-41-4	Ethylbenzene	6	U
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compuonds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets idenitfication criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

lient: CENTURY LABORATORIES
Job Number: 75621
Sample ID: S-W-38-5

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 10-31-87
Percent Moisture (Not Decanted): 7

Date Extracted/Prepared: 10-31-87
Conc/Dil Factor: 10

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	110	U	78-87-5	1,2-Dichloropropane	54	U
74-83-9	Bromomethane	110	U	10061-02-6	Trans-1,3-Dichloropropene	54	U
75-01-4	Vinyl Chloride	110	U	79-01-6	Trichloroethene	54	U
75-00-3	Chloroethane	110	U	124-48-1	Dibromochloromethane	54	U
75-09-2	Methylene Chloride	32	J	79-00-5	1,1,2-Trichloroethane	54	U
67-64-1	Acetone	110	U	71-43-2	Benzene	54	U
75-15-0	Carbon Disulfide	54	U	10061-01-5	cis-1,3-Dichloropropene	54	U
75-35-4	1,1-Dichloroethene	54	U	110-75-8	2-Chloroethylvinylether	110	U
75-34-3	1,1-Dichloroethane	54	U	75-25-2	Bromoform	54	U
156-60-5	Trans-1,2-Dichloroethene	54	U	591-78-6	4-Methyl-2-Pentanone	110	U
67-77-3	Chloroform	54	U	108-10-1	2-Hexanone	110	U
107-06-2	1,2-Dichloroethane	54	U	127-18-4	Tetrachloroethene	54	U
78-93-3	2-Butanone	110	U	79-34-5	1,1,2,2-Tetrachloroethane	54	U
71-55-6	1,1,1-Trichloroethane	54	U	108-88-3	Toluene	54	U
56-23-5	Carbon Tetrachloride	54	U	108-90-7	Chlorobenzene	54	U
108-05-4	Vinyl Acetate	110	U	100-41-4	Ethylbenzene	54	U
75-27-4	Bromodichloromethane	54	U	100-42-5	Styrene	54	U
					Total Xylenes	54	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75623
Sample ID: S-W-3B-6

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 10-27-87
Percent Moisture (Not Decanted): 10

Date Extracted/Prepared: 10-27-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	11	U	78-87-5	1,2-Dichloropropane	6	U
74-83-9	Bromomethane	11	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
75-01-4	Vinyl Chloride	11	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	11	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	2	J	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	41	B	71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	11	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	11	U
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	11	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
78-93-3	2-Butanone	7	JB	79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	3	J
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	11	U	100-41-4	Ethylbenzene	6	U
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75632
Sample ID: S-W-36-7

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 11-3-87
Percent Moisture (Not Decanted): 16

Date Extracted/Prepared: 11-3-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
[illegible]-87-3	Chloromethane	12	U	78-87-5	1,2-Dichloropropane	6	U
74-83-9	Bromomethane	12	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
[illegible]-01-4	Vinyl Chloride	12	U	79-01-6	Trichloroethene	6	U
[illegible]-00-3	Chloroethane	12	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	2	J	79-00-5	1,1,2-Trichloroethane	6	U
[illegible]-64-1	Acetone	12	U	71-43-2	Benzene	6	U
[illegible]-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	12	U
[illegible]4-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	U
[illegible]-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	12	U
[illegible]-77-3	Chloroform	6	U	108-10-1	2-Hexanone	12	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
[illegible]-93-3	2-Butanone	6	JB	79-34-5	1,1,2,2-Tetrachloroethane	6	U
[illegible]-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	1	J
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
[illegible]08-05-4	Vinyl Acetate	12	U	100-41-4	Ethylbenzene	6	U
[illegible]-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	1	J
					Total Xylenes	2	J

Data Reporting Qualifiers

[illegible]lue If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

[illegible] This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

Indicates an estimated value. This 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 indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75632
Sample ID: S-W-3B-8

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: LOW
Date Analyzed: 11-3-87
Percent Moisture (Not Decanted): 15

Date Extracted/Prepared: 11-3-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	12	U	78-87-5	1,2-Dichloropropane	6	U
74-83-9	Bromomethane	12	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
75-01-4	Vinyl Chloride	12	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	12	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	2	J	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	12	U	71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	12	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	U
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	12	U
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	12	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
78-93-3	2-Butanone	12	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	1	J
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	12	U	100-41-4	Ethylbenzene	6	U
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75632
Sample ID: S-W-3B-9

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 11-3-87
Percent Moisture (Not Decanted): 16

Date Extracted/Prepared: 11-3-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	12	U	78-87-5	1,2-Dichloropropane	6	U
74-83-9	Bromomethane	12	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
75-01-4	Vinyl Chloride	12	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	12	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	2	J	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	12	U	71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	12	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	U
6-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	12	U
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	12	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
78-93-3	2-Butanone	12	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	1	J
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	12	U	100-41-4	Ethylbenzene	6	U
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75632
Sample ID: S-W-3B-10

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 11-3-87
Percent Moisture (Not Decanted): 15

Date Extracted/Prepared: 11-3-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	12	U	78-87-5	1,2-Dichloropropane	6	U
74-83-9	Bromomethane	12	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
75-01-4	Vinyl Chloride	12	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	12	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	2	J	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	12	U	71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	12	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	U
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	12	
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	12	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
78-93-3	2-Butanone	12	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	1	J
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	12	U	100-41-4	Ethylbenzene	6	U
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75632
Sample ID: S-W-3B-11

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 11-3-87
Percent Moisture (Not Decanted): 15

Date Extracted/Prepared: 11-3-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	12	U	78-87-5	1,2-Dichloropropane	6	U
74-83-9	Bromomethane	12	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
75-01-4	Vinyl Chloride	12	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	12	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	2	J	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	14		71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	12	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	U
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	12	U
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	12	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
78-93-3	2-Butanone	12	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	1	J
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	12	U	100-41-4	Ethylbenzene	6	U
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75632
Sample ID: S-W-38-12

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 11-3-87
Percent Moisture (Not Decanted): 18

Date Extracted/Prepared: 11-3-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	12	U	78-87-5	1,2-Dichloropropane	6	U
74-83-9	Bromomethane	12	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
75-01-4	Vinyl Chloride	12	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	12	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	2	J	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	12	U	71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	12	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	U
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	12	U
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	12	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
78-93-3	2-Butanone	12	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	1	J
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	12	U	100-41-4	Ethylbenzene	6	U
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meets idenitfication criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75649
Sample ID: SD-A1

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 11-9-87
Percent Moisture (Not Decanted): 17

Date Extracted/Prepared: 11-9-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	12	U	78-87-5	1,2-Dichloropropane	6	U
74-83-9	Bromomethane	12	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
75-01-4	Vinyl Chloride	12	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	12	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	5	JB	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	10	B	71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	12	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	U
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	12	U
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	12	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
78-93-3	2-Butanone	12	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	6	U
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	12	U	100-41-4	Ethylbenzene	6	U
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicates the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75649
Sample ID: SD-A2

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 11-9-87
Percent Moisture (Not Decanted): 26

Date Extracted/Prepared: 11-5-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	14	U	78-87-5	1,2-Dichloropropane	7	U
74-83-9	Bromomethane	14	U	10061-02-6	Trans-1,3-Dichloropropene	7	U
75-01-4	Vinyl Chloride	14	U	79-01-6	Trichloroethene	7	U
75-00-3	Chloroethane	14	U	124-48-1	Dibromochloromethane	7	U
75-09-2	Methylene Chloride	5	JB	79-00-5	1,1,2-Trichloroethane	7	U
67-64-1	Acetone	19	B	71-43-2	Benzene	7	U
75-15-0	Carbon Disulfide	7	U	10061-01-5	cis-1,3-Dichloropropene	7	U
75-35-4	1,1-Dichloroethene	7	U	110-75-8	2-Chloroethylvinylether	14	U
75-34-3	1,1-Dichloroethane	7	U	75-25-2	Bromoform	7	
155-60-5	Trans-1,2-Dichloroethene	7	U	591-78-6	4-Methyl-2-Pentanone	14	U
67-77-3	Chloroform	7	U	108-10-1	2-Hexanone	14	U
107-06-2	1,2-Dichloroethane	7	U	127-18-4	Tetrachloroethene	7	U
78-93-3	2-Butanone	14	U	79-34-5	1,1,2,2-Tetrachloroethane	7	U
71-55-6	1,1,1-Trichloroethane	7	U	108-88-3	Toluene	7	U
56-23-5	Carbon Tetrachloride	7	U	108-90-7	Chlorobenzene	7	U
108-05-4	Vinyl Acetate	14	U	100-41-4	Ethylbenzene	7	U
75-27-4	Bromodichloromethane	7	U	100-42-5	Styrene	7	U
					Total Xylenes	7	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

: CENTURY LABORATORIES
:moe 75549
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United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

ıtra .on: Low
Anal ted: 11-9-87
ıt Moisture (Not Decanted): 27

Date Extracted/Prepared: 11-9-87
Conc/Dil Factor: 1

		ug/kg		CAS#		ug/kg	
-3	Chloromethane	14	U	78-87-5	1,2-Dichloropropane	7	U
-9	Bromomethane	14	U	10061-02-6	Trans-1,3-Dichloropropene	7	U
-4	Vinyl Chloride	14	U	79-01-6	Trichloroethene	7	U
-3	Chloroethane	14	U	124-48-1	Dibromochloromethane	7	U
-2	Methylene Chloride	5	JB	79-00-5	1,1,2-Trichloroethane	7	U
-1	Acetone	68		71-43-2	Benzene	7	U
-0	Carbon Disulfide	7	U	10061-01-5	cis-1,3-Dichloropropene	7	U
-4	1,1-Dichloroethene	7	U	110-75-8	2-Chloroethylvinylether	14	U
-3	1,1-Dichloroethane	7	U	75-25-2	Bromoform	7	U
0-	Trans-1,2-Dichloroethene	7	U	591-78-6	4-Methyl-2-Pentanone	14	U
-3	Chloroform	7	U	108-10-1	2-Hexanone	14	U
6-2	1,2-Dichloroethane	7	U	127-18-4	Tetrachloroethene	7	U
-3	2-Butanone	14	U	79-34-5	1,1,2,2-Tetrachloroethane	7	U
-6	1,1,1-Trichloroethane	7	U	108-88-3	Toluene	7	U
-5	Carbon Tetrachloride	7	U	108-90-7	Chlorobenzene	7	U
5-4	Vinyl Acetate	14	U	100-41-4	Ethylbenzene	7	U
-4	Bromodichloromethane	7	U	100-42-5	Styrene	7	U
					Total Xylenes	7	U

Data Reporting Qualifiers

: i' the result is a value greater than or equal to the detection limit.

The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

] ficates an estimated value. This flag is used either when estimating a concentration for tentatively identified mpounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

cates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

CENTURY LABORATORIES
ber: 75649
ID: SD-A4

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

ration: Low
alyzed: 11-9-87
Moisture (Not Decanted): 17

Date Extracted/Prepared: 11-9-87
Conc/Dil Factor: 1

		ug/kg		CAS#		ug/kg	
	Chloromethane	12	U	78-87-5	1,2-Dichloropropane	6	U
	Bromomethane	12	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
	Vinyl Chloride	12	U	79-01-6	Trichloroethene	6	U
	Chloroethane	12	U	124-48-1	Dibromochloromethane	6	U
	Methylene Chloride	4	JB	79-00-5	1,1,2-Trichloroethane	6	U
	Acetone	17	B	71-43-2	Benzene	6	U
	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	12	U
	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	U
5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	12	U
	Chloroform	6	U	108-10-1	2-Hexanone	12	U
2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
	2-Butanone	12	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	6	U
	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
4	Vinyl Acetate	12	U	100-41-4	Ethylbenzene	6	U
	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	U

Data Reporting Qualifiers

If the result is a value greater than or equal to the detection limit.

The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

Indicates an estimated value. This 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 indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

: CENTURY LABORATORIES
umber 75549
: I -81

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

itration: Low
Analyzed: 11-6-87
nt Moisture (Not Decanted): 19

Date Extracted/Prepared: 11-6-87
Conc/Dil Factor: 1

		ug/kg		CAS#		ug/kg	
-3	Chloromethane	12	U	78-87-5	1,2-Dichloropropane	6	U
-9	Bromomethane	12	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
-4	Vinyl Chloride	12	U	79-01-6	Trichloroethene	6	U
-3	Chloroethane	12	U	124-48-1	Dibromochloromethane	6	U
-2	Methylene Chloride	2	JB	79-00-5	1,1,2-Trichloroethane	6	U
-1	Acetone	4	JB	71-43-2	Benzene	6	U
-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	12	U
-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	U
)-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	12	U
-3	Chloroform	6	U	108-10-1	2-Hexanone	12	U
5-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
-3	2-Butanone	12	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	6	U
-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
5-4	Vinyl Acetate	12	U	100-41-4	Ethylbenzene	6	U
-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	U

Data Reporting Qualifiers

If the result is a value greater than or equal to the detection limit.

The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

Indicates an estimated value. This 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 indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75649
Sample ID: SD-B1D

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 11-9-87
Percent Moisture (Not Decanted): 17

Date Extracted/Prepared: 11-9-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	12	U	78-87-5	1,2-Dichloropropane	6	U
74-83-9	Bromomethane	12	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
75-01-4	Vinyl Chloride	12	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	12	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	2	JB	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	12	U	71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	12	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	12	
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	12	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
78-93-3	2-Butanone	12	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	6	U
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	12	U	100-41-4	Ethylbenzene	6	U
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

CE URY LABORATORIES
ior 5649
ID. -32

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

tra on: Low
nalyzed: 11-9-87
t Moisture (Not Decanted): 20

Date Extracted/Prepared: 11-9-87
Conc/Dil Factor: 1

		ug/kg		CAS#		ug/kg	
3	Chloromethane	13	U	78-87-5	1,2-Dichloropropane	6	U
9	Bromomethane	13	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
4	Vinyl Chloride	13	U	79-01-6	Trichloroethene	6	U
3	Chloroethane	13	U	124-48-1	Dibromochloromethane	6	U
2	Methylene Chloride	5	JB	79-00-5	1,1,2-Trichloroethane	6	U
1	Acetone	3	JB	71-43-2	Benzene	6	U
0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	13	U
3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	U
-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	13	U
3	Chloroform	6	U	108-10-1	2-Hexanone	13	U
-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
3	2-Butanone	13	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	6	U
5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
-4	Vinyl Acetate	13	U	100-41-4	Ethylbenzene	6	U
4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	U

Data Reporting Qualifiers

If the result is a value greater than or equal to the detection limit.

The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

Indicates an estimated value. This 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 indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75649
Sample ID: SD-B3

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 11-9-87
Percent Moisture (Not Decanted): 20

Date Extracted/Prepared: 11-5-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	13	U	78-87-5	1,2-Dichloropropane	6	U
74-83-9	Bromomethane	13	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
75-01-4	Vinyl Chloride	13	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	13	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	5	JB	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	13	B	71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	13	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	13	U
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	13	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
78-93-3	2-Butanone	13	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	6	U
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	13	U	100-41-4	Ethylbenzene	6	U
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicates the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Lab Number: 75649
Sample ID: SD-B4

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 11-9-87
Percent Moisture (Not Decanted): 20

Date Extracted/Prepared: 11-9-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	13	U	78-87-5	1,2-Dichloropropane	6	U
74-83-9	Bromomethane	13	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
75-01-4	Vinyl Chloride	13	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	13	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	5	JB	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	14	B	71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	13	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	U
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	13	U
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	13	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
78-93-3	2-Butanone	13	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	6	U
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	13	U	100-41-4	Ethylbenzene	6	U
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75649
Sample ID: SD-C1

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 11-5-87
Date Analyzed: 11-16-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 16

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg		CAS#		ug/kg	
108-95-2	Phenol	400	U	83-32-9	Acenaphthene	400	U
111-44-4	bis(2-Chloroethyl)Ether	400	U	51-28-5	2,4-Dinitrophenol	2000	U
95-57-8	2-Chlorophenol	400	U	100-02-7	4-Nitrophenol	2000	U
541-73-1	1,3-Dichlorobenzene	400	U	132-64-9	Dibenzofuran	400	U
106-46-7	1,4-Dichlorobenzene	400	U	121-14-2	2,4-Dinitrotoluene	400	U
100-51-6	Benzyl Alcohol	400	U	606-20-2	2,6-Dinitrotoluene	400	U
95-50-1	1,2-Dichlorobenzene	400	U	84-66-2	Diethylphthalate	400	
95-48-7	2-Methylphenol	400	U	7005-72-3	4-Chlorophenyl-phenylether	400	
39638-32-9	bis(2-chloroisopropyl)Ether	400	U	86-73-7	Fluorene	400	U
106-44-5	4-Methylphenol	400	U	100-01-6	4-Nitroaniline	2000	U
621-64-7	N-Nitroso-Di-n-Propylamine	400	U	534-52-1	4,6-Dinitro-2-Methylphenol	2000	U
67-72-1	Hexachloroethane	400	U	86-30-6	N-Nitrosodiphenylamine(1)	400	U
98-95-3	Nitrobenzene	400	U	101-55-3	4-Bromophenyl-phenylether	400	U
78-59-1	Isophorone	400	U	118-74-1	Hexachlorobenzene	400	U
88-75-5	2-Nitrophenol	400	U	87-86-5	Pentachlorophenol	2000	U
105-67-9	2,4-Dimethylphenol	400	U	85-01-8	Phenanthrene	120	J
65-85-0	Benzoic Acid	400	U	120-12-7	Anthracene	400	U
111-91-1	bis(2-Chloroethoxy)Methane	400	U	84-74-2	Di-n-Butylphthalate	400	U
120-83-2	2,4-Dichlorophenol	400	U	206-44-0	Fluoranthene	160	J
120-82-1	1,2,4-Trichlorobenzene	400	U	129-00-0	Pyrene	120	J
91-20-3	Naphthalene	400	U	85-68-7	Butylbenzylphthalate	400	U
106-47-8	4-Chloroaniline	400	U	91-94-1	3,3'-Dichlorobenzidine	790	U
87-68-3	Hexachlorobutadiene	400	U	56-55-3	Benzo(a)Anthracene	400	U
59-50-7	4-Chloro-3-Methylphenol	400	U	117-81-7	bis(2-Ethylhexyl)Phthalate	830	
91-57-6	2-Methylnaphthalene	400	U	218-01-9	Chrysene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U	117-84-0	Di-n-Octyl Phthalate	400	U
88-06-2	2,4,6-Trichlorophenol	400	U	205-99-2	Benzo(b)Fluoranthene	400	U
95-95-4	2,4,5-Trichlorophenol	2000	U	207-08-9	Benzo(k)Fluoranthene	400	U
91-58-7	2-Chloronaphthalene	400	U	50-32-8	Benzo(a)Pyrene	400	U
88-74-4	2-Nitroaniline	2000	U	193-39-5	Indeno(1,2,3-cd)Pyrene	400	U
131-11-3	Dimethyl Phthalate	400	U	53-70-3	Dibenzo(a,h)Anthracene	400	U
208-96-8	Acenaphthylene	400	U	191-24-2	Benzo(g,h,i)Perylene	400	U
				99-09-2	3-Nitroaniline	2000	

(1) Cannot be separated from diphenylamine

ient: CENTURY LABORATORIES
Job Number: 75649
Sample ID: SD-C2

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 11-6-87
Percent Moisture (Not Decanted): 14

Date Extracted/Prepared: 11-6-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	12	U	78-87-5	1,2-Dichloropropane	6	U
74-83-9	Bromomethane	12	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
75-01-4	Vinyl Chloride	12	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	12	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	2	JB	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	5	JB	71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	12	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	U
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	12	U
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	12	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
78-93-3	2-Butanone	12	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	6	U
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	12	U	100-41-4	Ethylbenzene	6	U
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75649
Sample ID: SD-C3

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 11-8-87
Percent Moisture (Not Decanted): 15

Date Extracted/Prepared: 11-8-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	12	U	78-87-5	1,2-Dichloropropane	6	U
74-83-9	Bromomethane	12	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
75-01-4	Vinyl Chloride	12	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	12	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	2	JB	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	6	JB	71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	12	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	U
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	12	
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	12	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
78-93-3	2-Butanone	12	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	6	U
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	12	U	100-41-4	Ethylbenzene	6	U
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicates the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

nt: CENTURY LABORATORIES
Number: 75649
ample ID: SD-C4

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 11-8-87
Percent Moisture (Not Decanted): 23

Date Extracted/Prepared: 11-6-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	13	U	78-87-5	1,2-Dichloropropane	6	U
74-83-9	Bromomethane	13	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
75-01-4	Vinyl Chloride	13	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	13	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	3	JB	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	13	U	71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	13	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	U
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	13	U
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	13	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
78-93-3	2-Butanone	13	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	6	U
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	13	U	100-41-4	Ethylbenzene	6	U
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75649
Sample ID: SD-D1

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 11-6-87
Percent Moisture (Not Decanted): 18

Date Extracted/Prepared: 11-6-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	12	U	78-87-5	1,2-Dichloropropane	6	U
74-83-9	Bromomethane	12	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
75-01-4	Vinyl Chloride	12	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	12	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	2	JB	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	27	B	71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	12	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	U
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	12	U
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	12	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
78-93-3	2-Butanone	12	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	6	U
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	12	U	100-41-4	Ethylbenzene	6	U
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meet identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75649
Sample ID: SD-D2

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 11-8-87
Percent Moisture (Not Decanted): 8

Date Extracted/Prepared: 11-8-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	11	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	11	U	10061-02-6	Trans-1,3-Dichloropropene	5	U
75-01-4	Vinyl Chloride	11	U	79-01-6	Trichloroethene	5	U
75-00-3	Chloroethane	11	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	2	JB	79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	25	B	71-43-2	Benzene	5	U
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	U
75-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethylvinylether	11	U
75-34-3	1,1-Dichloroethane	5	U	75-25-2	Bromoform	5	U
156-60-5	Trans-1,2-Dichloroethene	5	U	591-78-6	4-methyl-2-Pentanone	11	U
67-77-3	Chloroform	5	U	108-10-1	2-Hexanone	11	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	5	U
78-93-3	2-Butanone	13		79-34-5	1,1,2,2-Tetrachloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	5	U
56-23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
108-05-4	Vinyl Acetate	11	U	100-41-4	Ethylbenzene	5	U
75-27-4	Bromodichloromethane	5	U	100-42-5	Styrene	5	U
					Total Xylenes	5	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75649
Sample ID: SD-D3

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 11-6-87
Percent Moisture (Not Decanted): 16

Date Extracted/Prepared: 11-6-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	12	U	78-87-5	1,2-Dichloropropane	6	U
74-83-9	Bromomethane	12	U	10061-02-6	Trans-1,3-Dichloropropene	6	
75-01-4	Vinyl Chloride	12	U	79-01-6	Trichloroethene	6	
75-00-3	Chloroethane	12	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	2	JB	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	24	B	71-43-2	Benzene	6	
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	12	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	12	
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	12	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	
78-93-3	2-Butanone	12	U	79-34-5	1,1,2,2-Tetrachloroethane	6	
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	6	
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	
108-05-4	Vinyl Acetate	12	U	100-41-4	Ethylbenzene	6	
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	
					Total Xylenes	6	

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75649
Sample ID: SD-D4

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 11-6-87
Percent Moisture (Not Decanted): 17

Date Extracted/Prepared: 11-6-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	12	U	78-87-5	1,2-Dichloropropane	6	U
74-83-9	Bromomethane	12	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
75-01-4	Vinyl Chloride	12	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	12	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	1	JB	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	8	JB	71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	12	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	U
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-methyl-2-Pentanone	12	U
67-77-3	Chloroform	6	U	108-10-1	2-hexanone	12	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
78-93-3	2-Butanone	12	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	6	U
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	12	U	100-41-4	Ethylbenzene	6	U
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75656
Sample ID: GW-WB

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 11-6-87
Percent Moisture (Not Decanted): NA

Date Extracted/Prepared: 11-6-87
Conc/Dil Factor: 1

CAS #		ug/l		CAS #		ug/l	
74-87-3	Chloromethane	10	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	10	U	10061-02-6	Trans-1,3-Dichloropropene	5	U
75-01-4	Vinyl Chloride	10	U	79-01-6	Trichloroethene	5	U
75-00-3	Chloroethane	10	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	5	U	79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	50	B	71-43-2	Benzene	5	U
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	U
75-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethylvinylether	10	U
75-34-3	1,1-Dichloroethane	5	U	75-25-2	Bromoform	5	
156-60-5	Trans-1,2-Dichloroethene	5	U	591-78-6	4-Methyl-2-Pentanone	10	
67-77-3	Chloroform	7		108-10-1	2-Hexanone	10	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	5	U
78-93-3	2-Butanone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	5	U
56-23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
108-05-4	Vinyl Acetate	10	U	100-41-4	Ethylbenzene	5	U
75-27-4	Bromodichloromethane	5		100-42-5	Styrene	5	U
					Total Xylenes	5	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

ent: CENTURY LABORATORIES
b Number: 75656
Sample ID: GW-W1

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 11-6-87
ercent Moisture (Not Decanted): NA

Date Extracted/Prepared: 11-6-87
Conc/Dil Factor: 1

CAS #		ug/l		CAS #		ug/l	
74-87-3	Chloromethane	10	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	10	U	10061-02-6	Trans-1,3-Dichloropropene	5	U
75-01-4	Vinyl Chloride	10	U	79-01-6	Trichloroethene	5	U
75-00-3	Chloroethane	10	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	5	U	79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	10	U	71-43-2	Benzene	5	U
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	U
5-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethylvinylether	10	U
75-34-3	1,1-Dichloroethane	5	U	75-25-2	Bromoform	5	U
156-60-5	Trans-1,2-Dichloroethene	5	U	591-78-6	4-Methyl-2-Pentanone	10	U
67-77-3	Chloroform	5	U	108-10-1	2-Hexanone	10	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	7	
78-93-3	2-Butanone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	5	U
56-23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
108-05-4	Vinyl Acetate	10	U	100-41-4	Ethylbenzene	5	U
75-27-4	Bromodichloromethane	5	U	100-42-5	Styrene	5	U
					Total Xylenes	5	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meets idenitification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75656
Sample ID: GW-W2

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 11-6-87
Percent Moisture (Not Decanted): NA

Date Extracted/Prepared: 11-6-87
Conc/Dil Factor: 1

CAS #		ug/l		CAS #		ug/l	
74-87-3	Chloromethane	10	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	10	U	10061-02-6	Trans-1,3-Dichloropropene	5	U
75-01-4	Vinyl Chloride	10	U	79-01-6	Trichloroethene	5	
75-00-3	Chloroethane	10	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	3	J	79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	45		71-43-2	Benzene	5	U
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	U
75-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethylvinylether	10	U
75-34-3	1,1-Dichloroethane	5	U	75-25-2	Bromoform	5	
156-60-5	Trans-1,2-Dichloroethene	5	U	591-78-6	4-Methyl-2-Pentanone	10	U
67-77-3	Chloroform	6		108-10-1	2-Hexanone	10	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	5	U
78-93-3	2-Butanone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	5	U
56-23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
108-05-4	Vinyl Acetate	10	U	100-41-4	Ethylbenzene	5	U
75-27-4	Bromodichloromethane	5	U	100-42-5	Styrene	5	U
					Total Xylenes	5	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75656
Sample ID: GW-43A

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 11-6-87
Percent Moisture (Not Decanted): NA

Date Extracted/Prepared: 11-6-87
Conc/Dil Factor: 1

CAS #		ug/l		CAS #		ug/l	
74-87-3	Chloromethane	10	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	10	U	10061-02-6	Trans-1,3-Dichloropropene	5	U
75-01-4	Vinyl Chloride	5	J	79-01-6	Trichloroethene	92	
75-00-3	Chloroethane	10	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	11		79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	37	B	71-43-2	Benzene	5	U
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	U
75-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethylvinylether	10	U
75-34-3	1,1-Dichloroethane	5	U	75-25-2	Bromoform	5	U
156-60-5	Trans-1,2-Dichloroethene	86		591-78-6	4-Methyl-2-Pentanone	10	U
67-77-3	Chloroform	5	U	108-10-1	2-Hexanone	10	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	5	U
78-93-3	2-Butanone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	5	U
56-23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
108-05-4	Vinyl Acetate	10	U	100-41-4	Ethylbenzene	5	U
75-27-4	Bromodichloromethane	5	U	100-42-5	Styrene	5	U
					Total Xylenes	5	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75656
Sample ID: GW-W3B

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 11-6-87
Percent Moisture (Not Decanted): NA

Date Extracted/Prepared: 11-6-87
Conc/Dil Factor: 1

CAS #		ug/l		CAS #		ug/l	
74-87-3	Chloromethane	10	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	10	U	10061-02-6	Trans-1,3-Dichloropropene	5	U
75-01-4	Vinyl Chloride	10	U	79-01-6	Trichloroethene	5	U
75-00-3	Chloroethane	10	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	5	U	79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	21	B	71-43-2	Benzene	5	U
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	U
75-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethylvinylether	10	U
75-34-3	1,1-Dichloroethane	5	U	75-25-2	Bromoform	5	
156-60-5	Trans-1,2-Dichloroethene	5	U	591-78-6	4-Methyl-2-Pentanone	10	U
67-77-3	Chloroform	5	U	108-10-1	2-Hexanone	10	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	5	U
78-93-3	2-Butanone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	5	U
56-23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
108-05-4	Vinyl Acetate	10	U	100-41-4	Ethylbenzene	5	U
75-27-4	Bromodichloromethane	5	U	100-42-5	Styrene	5	U
					Total Xylenes	5	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Lab Number: 75656
Sample ID: GW-W4

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 11-7-87
Percent Moisture (Not Decanted): NA

Date Extracted/Prepared: 11-7-87
Conc/Dil Factor: 6

CAS #		ug/l		CAS #		ug/l	
74-87-3	Chloromethane	50	U	78-87-5	1,2-Dichloropropane	25	U
74-83-9	Bromomethane	50	U	10061-02-6	Trans-1,3-Dichloropropene	25	U
75-01-4	Vinyl Chloride	35	J	79-01-6	Trichloroethene	410	
75-00-3	Chloroethane	50	U	124-48-1	Dibromochloromethane	25	U
75-09-2	Methylene Chloride	560	B	79-00-5	1,1,2-Trichloroethane	25	U
67-64-1	Acetone	120	B	71-43-2	Benzene	25	U
75-15-0	Carbon Disulfide	25	U	10061-01-5	cis-1,3-Dichloropropene	25	U
[illegible]-35-4	1,1-Dichloroethene	25	U	110-75-8	2-Chloroethylvinylether	50	U
[illegible]5-34-3	1,1-Dichloroethane	25	U	75-25-2	Bromoform	25	U
156-60-5	Trans-1,2-Dichloroethene	170		591-78-6	4-Methyl-2-Pentanone	50	U
67-77-3	Chloroform	95		108-10-1	2-Hexanone	50	U
107-06-2	1,2-Dichloroethane	45		127-18-4	Tetrachloroethene	25	U
78-93-3	2-Butanone	50	U	79-34-5	1,1,2,2-Tetrachloroethane	25	U
71-55-6	1,1,1-Trichloroethane	25	U	108-88-3	Toluene	25	U
56-23-5	Carbon Tetrachloride	25	U	108-90-7	Chlorobenzene	25	U
108-05-4	Vinyl Acetate	50	U	100-41-4	Ethylbenzene	25	U
75-27-4	Bromodichloromethane	25	U	100-42-5	Styrene	25	U
					Total Xylenes	25	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75656
Sample ID: GW-W4D

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 11-7-87
Percent Moisture (Not Decanted): NA

Date Extracted/Prepared: 11-7-87
Conc/Dil Factor: 5

CAS #		ug/l		CAS #		ug/l	
74-87-3	Chloromethane	50	U	78-87-5	1,2-Dichloropropane	25	U
74-83-9	Bromomethane	50	U	10061-02-6	Trans-1,3-Dichloropropene	25	U
75-01-4	Vinyl Chloride	40	J	79-01-6	Trichloroethene	420	
75-00-3	Chloroethane	50	U	124-48-1	Dibromochloromethane	25	U
75-09-2	Methylene Chloride	550	B	79-00-5	1,1,2-Trichloroethane	25	U
67-64-1	Acetone	110	B	71-43-2	Benzene	25	U
75-15-0	Carbon Disulfide	25	U	10061-01-5	cis-1,3-Dichloropropene	25	U
75-35-4	1,1-Dichloroethene	25	U	110-75-8	2-Chloroethylvinylether	50	"
75-34-3	1,1-Dichloroethane	25	U	75-25-2	Bromoform	25	
156-60-5	Trans-1,2-Dichloroethene	180		591-78-6	4-Methyl-2-Pentanone	50	U
67-77-3	Chloroform	90		108-10-1	2-Hexanone	50	U
107-06-2	1,2-Dichloroethane	45		127-18-4	Tetrachloroethene	25	U
78-93-3	2-Butanone	50	U	79-34-5	1,1,2,2-Tetrachloroethane	25	U
71-55-6	1,1,1-Trichloroethane	25	U	108-88-3	Toluene	25	U
56-23-5	Carbon Tetrachloride	25	U	108-90-7	Chlorobenzene	25	U
108-05-4	Vinyl Acetate	50	U	100-41-4	Ethylbenzene	25	U
75-27-4	Bromodichloromethane	25	U	100-42-5	Styrene	25	U
					Total Xylenes	25	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75556
Sample ID: GW-W6

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 11-5-87
Percent Moisture (Not Decanted): NA

Date Extracted/Prepared: 11-5-87
Conc/Dil Factor: 1

CAS #		ug/l		CAS #		ug/l	
74-87-3	Chloromethane	10	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	10	U	10061-02-6	Trans-1,3-Dichloropropene	5	U
75-01-4	Vinyl Chloride	10	U	79-01-6	Trichloroethene	5	U
75-00-3	Chloroethane	10	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	5	U	79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	30		71-43-2	Benzene	5	U
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	U
75-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethylvinylether	10	U
75-34-3	1,1-Dichloroethane	5	U	75-25-2	Bromoform	5	U
156-60-5	Trans-1,2-Dichloroethene	5	U	591-78-6	4-Methyl-2-Pentanone	10	U
67-77-3	Chloroform	5	U	108-10-1	2-Hexanone	10	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	5	U
78-93-3	2-Butanone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	5	U
56-23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
108-05-4	Vinyl Acetate	10	U	100-41-4	Ethylbenzene	5	U
75-27-4	Bromodichloromethane	5	U	100-42-5	Styrene	5	U
					Total Xylenes	5	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicates the presence of a compound that meets identification criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75644
Sample ID: D-W-1

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 11-4-87
Percent Moisture (Not Decanted): NA

Date Extracted/Prepared: 11-4-87
Conc/Dil Factor: 1

CAS #		ug/l		CAS #		ug/l	
74-87-3	Chloromethane	10	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	10	U	10061-02-6	Trans-1,3-Dichloropropene	5	U
75-01-4	Vinyl Chloride	10	U	79-01-6	Trichloroethene	5	U
75-00-3	Chloroethane	10	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	5	U	79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	10	U	71-43-2	Benzene	5	U
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	U
75-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethylvinylether	10	U
75-34-3	1,1-Dichloroethane	5	U	75-25-2	Bromoform	5	
156-60-5	Trans-1,2-Dichloroethene	5	U	591-78-6	4-Methyl-2-Pentanone	10	U
67-77-3	Chloroform	5	U	108-10-1	2-Hexanone	10	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	5	U
78-93-3	2-Butanone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	15	
56-23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
108-05-4	Vinyl Acetate	10	U	100-41-4	Ethylbenzene	5	U
75-27-4	Bromodichloromethane	5	U	100-42-5	Styrene	5	U
					Total Xylenes	5	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meets idenitfication criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 10119
Sample ID: GW-W1-2 (10119-1)

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 03-17-88
Percent Moisture (Not Decanted): NA

Date Extracted/Prepared: 03-17-88
Conc/Dil Factor: 1

CAS #		ug/l		CAS #		ug/l	
74-87-3	Chloromethane	10	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	10	U	10061-02-6	Trans-1,3-Dichloropropene	5	U
75-01-4	Vinyl Chloride	10	U	79-01-6	Trichloroethene	5	U
75-00-3	Chloroethane	10	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	5	U	79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	10	U	71-43-2	Benzene	5	U
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	U
75-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethylvinylether	10	U
75-34-3	1,1-Dichloroethane	5	U	75-25-2	Bromoform	5	U
156-60-5	Trans-1,2-Dichloroethene	5	U	591-78-6	4-Methyl-2-Pentanone	10	U
67-77-3	Chloroform	5	U	108-10-1	2-Hexanone	10	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	6	
78-93-3	2-Butanone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	5	U
56-23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
108-05-4	Vinyl Acetate	10	U	100-41-4	Ethylbenzene	5	U
75-27-4	Bromodichloromethane	5	U	100-42-5	Styrene	5	U
					Total Xylenes	5	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compuonds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets idenitfication criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 10119
Sample ID: GW-W2-2 (10119-2)

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 03-17-88
Percent Moisture (Not Decanted): NA

Date Extracted/Prepared: 03-17-88
Conc/Dil Factor: 1

CAS #		ug/l		CAS #		ug/l	
74-87-3	Chloromethane	10	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	10	U	10061-02-6	Trans-1,3-Dichloropropene	5	U
75-01-4	Vinyl Chloride	10	U	79-01-6	Trichloroethene	5	U
75-00-3	Chloroethane	10	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	5	U	79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	10	U	71-43-2	Benzene	5	
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	
75-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethylvinylether	10	U
75-34-3	1,1-Dichloroethane	5	U	75-25-2	Bromoform	5	U
156-60-5	Trans-1,2-Dichloroethene	5	U	591-78-6	4-Methyl-2-Pentanone	10	U
67-77-3	Chloroform	31		108-10-1	2-Hexanone	10	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	5	U
78-93-3	2-Butanone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	5	U
56-23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
108-05-4	Vinyl Acetate	10	U	100-41-4	Ethylbenzene	5	U
75-27-4	Bromodichloromethane	5	U	100-42-5	Styrene	5	U
					Total Xylenes	5	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compuonds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets idenitfication criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit c detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 10115
Sample ID: ~~GW-W3A-D-2~~ (10115-4)

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 03-11-88
Percent Moisture (Not Decanted): NA

Date Extracted/Prepared: 03-11-88
Conc/Dil Factor: 1

CAS #		ug/l		CAS #		ug/l	
74-87-3	Chloromethane	10	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	10	U	10061-02-6	Trans-1,3-Dichloropropene	5	U
75-01-4	Vinyl Chloride	10	U	79-01-6	Trichloroethene	62	
75-00-3	Chloroethane	10	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	5	U	79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	10	U	71-43-2	Benzene	5	U
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	U
75-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethylvinylether	10	U
75-34-3	1,1-Dichloroethane	3	J	75-25-2	Bromoform	5	U
156-60-5	Trans-1,2-Dichloroethene	91		591-78-6	4-Methyl-2-Pentanone	10	U
67-77-3	Chloroform	5	U	108-10-1	2-Hexanone	10	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	5	U
78-93-3	2-Butanone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	5	U
56-23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
108-05-4	Vinyl Acetate	10	U	100-41-4	Ethylbenzene	5	U
75-27-4	Bromodichloromethane	5	U	100-42-5	Styrene	5	U
					Total Xylenes	5	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compuonds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets idenitfication criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 10115
Sample ID: GW-W3A-2 (10115-2)

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 03-11-88
Percent Moisture (Not Decanted): NA

Date Extracted/Prepared: 03-11-88
Conc/Dil Factor: 1

CAS #		ug/l		CAS #		ug/l	
74-87-3	Chloromethane	10	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	10	U	10061-02-6	Trans-1,3-Dichloropropene	5	U
75-01-4	Vinyl Chloride	10	U	79-01-6	Trichloroethene	100	
75-00-3	Chloroethane	10	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	5	U	79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	10	U	71-43-2	Benzene	5	
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	U
75-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethylvinylether	10	U
75-34-3	1,1-Dichloroethane	5	U	75-25-2	Bromoform	5	U
156-60-5	Trans-1,2-Dichloroethene	150		591-78-6	4-Methyl-2-Pentanone	10	U
67-77-3	Chloroform	5	U	108-10-1	2-Hexanone	10	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	5	U
78-93-3	2-Butanone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	5	U
56-23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
108-05-4	Vinyl Acetate	10	U	100-41-4	Ethylbenzene	5	U
75-27-4	Bromodichloromethane	5	U	100-42-5	Styrene	5	U
					Total Xylenes	5	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compuonds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets idenitfication criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 10115
Sample ID: GW-W3B-2 (10115-1)

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 03-11-88
Percent Moisture (Not Decanted): NA

Date Extracted/Prepared: 03-11-88
Conc/Dil Factor: 1

CAS #		ug/l		CAS #		ug/l	
74-87-3	Chloromethane	10	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	10	U	10061-02-6	Trans-1,3-Dichloropropene	5	U
75-01-4	Vinyl Chloride	10	U	79-01-6	Trichloroethene	5	U
75-00-3	Chloroethane	10	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	4	J	79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	10	U	71-43-2	Benzene	5	U
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	U
75-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethylvinylether	10	U
75-34-3	1,1-Dichloroethane	5	U	75-25-2	Bromoform	5	U
156-60-5	Trans-1,2-Dichloroethene	5	U	591-78-6	4-Methyl-2-Pentanone	10	U
67-77-3	Chloroform	5	U	108-10-1	2-Hexanone	10	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	5	U
78-93-3	2-Butanone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	5	U
56-23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
108-05-4	Vinyl Acetate	10	U	100-41-4	Ethylbenzene	5	U
75-27-4	Bromodichloromethane	5	U	100-42-5	Styrene	5	U
					Total Xylenes	5	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compuonds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets idenitfication criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 10115
Sample ID: GW-W4-2 (10115-5)

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 03-11-88
Percent Moisture (Not Decanted): NA

Date Extracted/Prepared: 03-11-88
Conc/Dil Factor: 1

CAS #		ug/l		CAS #		ug/l	
74-87-3	Chloromethane	10	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	10	U	10061-02-6	Trans-1,3-Dichloropropene	5	U
75-01-4	Vinyl Chloride	3	J	79-01-6	Trichloroethene	160	
75-00-3	Chloroethane	10	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	16		79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	10	U	71-43-2	Benzene	5	
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	
75-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethylvinylether	10	U
75-34-3	1,1-Dichloroethane	5	U	75-25-2	Bromoform	5	U
156-60-5	Trans-1,2-Dichloroethene	16		591-78-6	4-Methyl-2-Pentanone	10	U
67-77-3	Chloroform	19		108-10-1	2-Hexanone	10	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	5	U
78-93-3	2-Butanone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	5	U
56-23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
108-05-4	Vinyl Acetate	10	U	100-41-4	Ethylbenzene	5	U
75-27-4	Bromodichloromethane	5	U	100-42-5	Styrene	5	U
					Total Xylenes	5	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compuonds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets idenitfication criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit c detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 10115
Sample ID: GW-W5-2 (10115-3)

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 03-11-88
Percent Moisture (Not Decanted): NA

Date Extracted/Prepared: 03-11-88
Conc/Dil Factor: 1

CAS #		ug/l		CAS #		ug/l	
74-87-3	Chloromethane	10	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	10	U	10061-02-6	Trans-1,3-Dichloropropene	5	U
75-01-4	Vinyl Chloride	7	J	79-01-6	Trichloroethene	5	U
75-00-3	Chloroethane	10	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	4	J	79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	10	U	71-43-2	Benzene	5	U
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	U
75-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethylvinylether	10	U
75-34-3	1,1-Dichloroethane	5	U	75-25-2	Bromoform	5	U
156-60-5	Trans-1,2-Dichloroethene	5	U	591-78-6	4-Methyl-2-Pentanone	10	U
67-77-3	Chloroform	5	U	108-10-1	2-Hexanone	10	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	5	U
78-93-3	2-Butanone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	5	U
56-23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
108-05-4	Vinyl Acetate	10	U	100-41-4	Ethylbenzene	5	U
75-27-4	Bromodichloromethane	5	U	100-42-5	Styrene	5	U
					Total Xylenes	5	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compuonds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets idenitfication criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 10119
Sample ID: GW-W6-2 (10119-3)

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 03-17-88
Percent Moisture (Not Decanted): NA

Date Extracted/Prepared: 03-17-88
Conc/Dil Factor: 1

CAS #		ug/l		CAS #		ug/l	
74-87-3	Chloromethane	10	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	10	U	10061-02-6	Trans-1,3-Dichloropropene	5	U
75-01-4	Vinyl Chloride	10	U	79-01-6	Trichloroethene	1	J
75-00-3	Chloroethane	10	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	5	U	79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	10	U	71-43-2	Benzene	5	
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	U
75-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethylvinylether	10	U
75-34-3	1,1-Dichloroethane	5	U	75-25-2	Bromoform	5	U
156-60-5	Trans-1,2-Dichloroethene	1	J	591-78-6	4-Methyl-2-Pentanone	10	U
67-77-3	Chloroform	5	U	108-10-1	2-Hexanone	10	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	5	U
78-93-3	2-Butanone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	5	U
56-23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
108-05-4	Vinyl Acetate	10	U	100-41-4	Ethylbenzene	5	U
75-27-4	Bromodichloromethane	5	U	100-42-5	Styrene	5	U
					Total Xylenes	5	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compuonds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets idenitfication criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES INC.
Job Number: 75577
Sample ID: S-W-1-4

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 10-14-87
Date Analyzed: 10-21-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 13

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg		CAS#		ug/kg	
108-95-2	Phenol	380	U	83-32-9	Acenaphthene	380	U
111-44-4	bis(2-Chloroethyl)Ether	380	U	51-28-5	2,4-Dinitrophenol	1900	U
95-57-8	2-Chlorophenol	380	U	100-02-7	4-Nitrophenol	1900	U
541-73-1	1,3-Dichlorobenzene	380	U	132-64-9	Dibenzofuran	380	U
106-46-7	1,4-Dichlorobenzene	380	U	121-14-2	2,4-Dinitrotoluene	380	U
100-51-6	Benzyl Alcohol	380	U	606-20-2	2,6-Dinitrotoluene	380	
95-50-1	1,2-Dichlorobenzene	380	U	84-66-2	Diethylphthalate	380	U
95-48-7	2-Methylphenol	380	U	7005-72-3	4-Chlorophenyl-phenylether	380	U
39638-32-9	bis(2-chloroisopropyl)Ether	380	U	86-73-7	Fluorene	380	U
106-44-5	4-Methylphenol	380	U	100-01-6	4-Nitroaniline	1900	U
621-64-7	N-Nitroso-Di-n-Propylamine	380	U	534-52-1	4,6-Dinitro-2-Methylphenol	1900	U
67-72-1	Hexachloroethane	380	U	86-30-6	N-Nitrosodiphenylamine(1)	380	U
98-95-3	Nitrobenzene	380	U	101-55-3	4-Bromophenyl-phenylether	380	U
78-59-1	Isophorone	380	U	118-74-1	Hexachlorobenzene	380	U
88-75-5	2-Nitrophenol	380	U	87-86-5	Pentachlorophenol	1900	U
105-67-9	2,4-Dimethylphenol	380	U	85-01-8	Phenanthrene	380	U
65-85-0	Benzoic Acid	380	U	120-12-7	Anthracene	380	U
111-91-1	bis(2-Chloroethoxy)Methane	380	U	84-74-2	Di-n-Butylphthalate	1300	
120-83-2	2,4-Dichlorophenol	380	U	206-44-0	Fluoranthene	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U	129-00-0	Pyrene	380	U
91-20-3	Naphthalene	380	U	85-68-7	Butylbenzylphthalate	1300	
106-47-8	4-Chloroaniline	380	U	91-94-1	3,3'-Dichlorobenzidine	770	U
87-68-3	Hexachlorobutadiene	380	U	56-55-3	Benzo(a)Anthracene	380	U
59-50-7	4-Chloro-3-Methylphenol	380	U	117-81-7	bis(2-Ethylhexyl)Phthalate	690	
91-57-6	2-Methylnaphthalene	380	U	218-01-9	Chrysene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U	117-84-0	Di-n-Octyl Phthalate	380	U
88-06-2	2,4,6-Trichlorophenol	380	U	205-99-2	Benzo(b)Fluoranthene	380	U
95-95-4	2,4,5-Trichlorophenol	1900	U	207-08-9	Benzo(k)Fluoranthene	380	U
91-58-7	2-Chloronaphthalene	380	U	50-32-8	Benzo(a)Pyrene	380	U
88-74-4	2-Nitroaniline	1900	U	193-39-5	Indeno(1,2,3-cd)Pyrene	380	U
131-11-3	Dimethyl Phthalate	77	J	53-70-3	Dibenzo(a,h)Anthracene	380	
208-96-8	Acenaphthylene	380	U	191-24-2	Benzo(g,h,i)Perylene	380	U
				99-09-2	3-Nitroaniline	1900	U

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES INC.
Job Number: 75577
Sample ID: S-W-1-3

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: LOW
Date Extracted/Prepared: 10-14-87
Date Analyzed: 10-21-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 11

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg		CAS#		ug/kg	
108-95-2	Phenol	370	U	83-32-9	Acenaphthene	370	U
111-44-4	bis(2-Chloroethyl)Ether	370	U	51-28-5	2,4-Dinitrophenol	1900	U
95-57-8	2-Chlorophenol	370	U	100-02-7	4-Nitrophenol	1900	U
541-73-1	1,3-Dichlorobenzene	370	U	132-64-9	Dibenzofuran	370	U
106-46-7	1,4-Dichlorobenzene	370	U	121-14-2	2,4-Dinitrotoluene	370	U
100-51-6	Benzyl Alcohol	370	U	606-20-2	2,6-Dinitrotoluene	370	U
95-50-1	1,2-Dichlorobenzene	370	U	84-66-2	Diethylphthalate	370	U
95-48-7	2-Methylphenol	370	U	7005-72-3	4-Chlorophenyl-phenylether	370	U
39638-32-9	bis(2-chloroisopropyl)Ether	370	U	86-73-7	Fluorene	370	U
106-44-5	4-Methylphenol	370	U	100-01-6	4-Nitroaniline	1900	U
621-64-7	N-Nitroso-Di-n-Propylamine	370	U	534-52-1	4,6-Dinitro-2-Methylphenol	1900	U
67-72-1	Hexachloroethane	370	U	86-30-6	N-Nitrosodiphenylamine(1)	370	U
98-95-3	Nitrobenzene	370	U	101-55-3	4-Bromophenyl-phenylether	370	U
78-59-1	Isophorone	370	U	118-74-1	Hexachlorobenzene	370	U
88-75-5	2-Nitrophenol	370	U	87-86-5	Pentachlorophenol	1900	U
105-67-9	2,4-Dimethylphenol	370	U	85-01-8	Phenanthrene	110	J
65-85-0	Benzoic Acid	370	U	120-12-7	Anthracene	370	U
111-91-1	bis(2-Chloroethoxy)Methane	370	U	84-74-2	Di-n-Butylphthalate	1400	
120-83-2	2,4-Dichlorophenol	370	U	206-44-0	Fluoranthene	150	J
120-82-1	1,2,4-Trichlorobenzene	370	U	129-00-0	Pyrene	150	J
91-20-3	Naphthalene	370	U	85-68-7	Butylbenzylphthalate	370	U
106-47-8	4-Chloroaniline	370	U	91-94-1	3,3'-Dichlorobenzidine	750	U
87-68-3	Hexachlorobutadiene	370	U	56-55-3	Benzo(a)Anthracene	110	J
59-50-7	4-Chloro-3-Methylphenol	370	U	117-81-7	bis(2-Ethylhexyl)Phthalate	1400	
91-57-6	2-Methylnaphthalene	370	U	218-01-9	Chrysene	110	J
77-47-4	Hexachlorocyclopentadiene	370	U	117-84-0	Di-n-Octyl Phthalate	370	U
88-06-2	2,4,6-Trichlorophenol	370	U	205-99-2	Benzo(b)Fluoranthene	110	J
95-95-4	2,4,5-Trichlorophenol	1900	U	207-08-9	Benzo(k)Fluoranthene	370	U
91-58-7	2-Chloronaphthalene	370	U	50-32-8	Benzo(a)Pyrene	75	J
88-74-4	2-Nitroaniline	1900	U	193-39-5	Indeno(1,2,3-cd)Pyrene	370	U
131-11-3	Dimethyl Phthalate	370	U	53-70-3	Dibenzo(a,h)Anthracene	370	U
208-96-8	Acenaphthylene	370	U	191-24-2	Benzo(g,h,i)Perylene	370	U
				99-09-2	3-Nitroaniline	1900	U

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES INC.
Job Number: 75577
Sample ID: S-W-1-2

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 10-14-87
Date Analyzed: 10-21-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 9

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg		CAS#		ug/kg	
108-95-2	Phenol	370	U	83-32-9	Acenaphthene	370	U
111-44-4	bis(2-Chloroethyl)Ether	370	U	51-28-5	2,4-Dinitrophenol	1800	U
95-57-8	2-Chlorophenol	370	U	100-02-7	4-Nitrophenol	1800	U
541-73-1	1,3-Dichlorobenzene	370	U	132-64-9	Dibenzofuran	370	U
106-46-7	1,4-Dichlorobenzene	370	U	121-14-2	2,4-Dinitrotoluene	370	U
100-51-6	Benzyl Alcohol	370	U	606-20-2	2,6-Dinitrotoluene	370	
95-50-1	1,2-Dichlorobenzene	370	U	84-66-2	Diethylphthalate	370	
95-48-7	2-Methylphenol	370	U	7005-72-3	4-Chlorophenyl-phenylether	370	U
39638-32-9	bis(2-chloroisopropyl)Ether	370	U	86-73-7	Fluorene	370	U
106-44-5	4-Methylphenol	370	U	100-01-6	4-Nitroaniline	1800	U
621-64-7	N-Nitroso-Di-n-Propylamine	370	U	534-52-1	4,6-Dinitro-2-Methylphenol	1800	U
67-72-1	Hexachloroethane	370	U	86-30-6	N-Nitrosodiphenylamine(1)	370	U
98-95-3	Nitrobenzene	370	U	101-55-3	4-Bromophenyl-phenylether	370	U
78-59-1	Isophorone	370	U	118-74-1	Hexachlorobenzene	370	U
88-75-5	2-Nitrophenol	370	U	87-86-5	Pentachlorophenol	1800	U
105-67-9	2,4-Dimethylphenol	370	U	85-01-8	Phenanthrene	110	J
65-85-0	Benzoic Acid	370	U	120-12-7	Anthracene	370	U
111-91-1	bis(2-Chloroethoxy)Methane	370	U	84-74-2	Di-n-Butylphthalate	1700	
120-83-2	2,4-Dichlorophenol	370	U	206-44-0	Fluoranthene	180	J
120-82-1	1,2,4-Trichlorobenzene	370	U	129-00-0	Pyrene	160	J
91-20-3	Naphthalene	370	U	85-68-7	Butylbenzylphthalate	370	U
106-47-8	4-Chloroaniline	370	U	91-94-1	3,3'-Dichlorobenzidine	730	U
87-68-3	Hexachlorobutadiene	370	U	56-55-3	Benzo(a)Anthracene	110	J
59-50-7	4-Chloro-3-Methylphenol	370	U	117-81-7	bis(2-Ethylhexyl)Phthalate	510	
91-57-6	2-Methylnaphthalene	370	U	218-01-9	Chrysene	150	J
77-47-4	Hexachlorocyclopentadiene	370	U	117-84-0	Di-n-Octyl Phthalate	370	U
88-06-2	2,4,6-Trichlorophenol	370	U	205-99-2	Benzo(b)Fluoranthene	160	J
95-95-4	2,4,5-Trichlorophenol	1800	U	207-08-9	Benzo(k)Fluoranthene	370	U
91-58-7	2-Chloronaphthalene	370	U	50-32-8	Benzo(a)Pyrene	110	J
88-74-4	2-Nitroaniline	1800	U	193-39-5	Indeno(1,2,3-cd)Pyrene	370	U
131-11-3	Dimethyl Phthalate	370	U	53-70-3	Dibenzo(a,h)Anthracene	370	U
208-96-8	Acenaphthylene	370	U	191-24-2	Benzo(g,h,i)Perylene	370	
				99-09-2	3-Nitroaniline	1800	U

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES INC.
Job Number: 75577
Sample ID: [illegible]

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: LOW
Date Extracted/Prepared: 10-14-87
Date Analyzed: 10-21-87
Dilution Factor: 1
Percent Moisture (Decanted): 3

GPC Cleanup: NO
Separatory Funnel Extraction: NO
Continuous Liquid-Liquid Extraction: NO

CAS #		ug/kg		CAS#		ug/kg	
108-95-2	Phenol	370	U	83-32-9	Acenaphthene	370	U
111-44-4	bis(2-Chloroethyl)ether	370	U	51-28-5	2,4-Dinitrophenol	1800	U
95-57-8	2-Chlorophenol	370	U	100-02-7	4-Nitrophenol	1800	U
541-73-1	1,3-Dichlorobenzene	370	U	132-64-9	Dibenzofuran	370	U
106-46-7	1,4-Dichlorobenzene	370	U	121-14-2	2,4-Dinitrotoluene	370	U
100-51-6	Benzyl Alcohol	370	U	606-20-2	2,6-Dinitrotoluene	370	U
95-50-1	1,2-Dichlorobenzene	370	U	84-66-2	Diethylphthalate	370	U
95-48-7	2-Methylphenol	370	U	7005-72-3	4-Chlorophenyl-phenylether	370	U
39638-32-6	bis(2-Chloroisopropyl)ether	370	U	86-73-7	Fluorene	370	U
106-44-5	4-Methylphenol	370	U	100-01-6	4-Nitroaniline	1800	U
621-64-7	N-Nitroso-Di-n-Propylamine	370	U	534-52-1	4,6-Dinitro-2-Methylphenol	1800	U
67-72-1	Hexachloroethane	370	U	86-30-6	N-Nitrosodiphenylamine(1)	370	U
98-95-3	Nitrobenzene	370	U	101-55-3	4-Bromophenyl-phenylether	370	U
78-59-1	Isophorone	370	U	118-74-1	Hexachlorobenzene	370	U
88-75-5	2-Nitrophenol	370	U	87-86-5	Pentachlorophenol	1800	U
105-67-9	2,4-Dimethylphenol	370	U	85-01-8	Phenanthrene	370	U
65-85-0	Benzoic Acid	370	U	120-12-7	Anthracene	370	U
111-91-1	bis(2-Chloroethoxy)Methane	370	U	84-74-2	Di-n-butylphthalate	1400	U
120-83-2	2,4-Dichlorophenol	370	U	206-44-0	Fluoranthene	180	J
120-82-1	1,2,4-Trichlorobenzene	370	U	129-00-0	Pyrene	160	J
91-20-3	Naphthalene	370	U	85-68-7	Butylbenzylphthalate	370	U
106-47-8	4-Chloroaniline	370	U	91-94-1	3,3'-Dichlorobenzidine	730	U
87-68-3	Hexachlorobutadiene	370	U	56-55-3	Benzo(a)Anthracene	110	J
59-50-7	4-Chloro-3-Methylphenol	370	U	117-81-7	bis(2-Ethylhexyl)Phthalate	880	
91-57-6	2-Methylnaphthalene	370	U	218-01-9	Chrysene	150	J
77-47-4	Hexachlorocyclopentadiene	370	U	117-84-0	Di-n-Octyl Phthalate	370	U
88-06-2	2,4,6-Trichlorophenol	370	U	205-99-2	Benzo(b)Fluoranthene	160	J
95-95-4	2,4,5-Trichlorophenol	1800	U	207-08-9	Benzo(k)Fluoranthene	370	U
91-58-7	2-Chloronaphthalene	370	U	50-32-8	Benzo(a)Pyrene	110	J
88-74-4	2-Nitroaniline	1800	U	193-39-5	Indeno(1,2,3-cd)Pyrene	370	U
131-11-3	Dimethyl Phthalate	370	U	53-70-3	Dibenzo(a,h)Anthracene	370	U
208-96-8	Acenaphthylene	370	U	191-24-2	Benzo(g,h,i)Perylene	370	U
				99-09-2	3-Nitroaniline	1800	U

Lower CN separated from Cyanide-Amenable

Client: CENTURY LABORATORIES
Job Number: 75644
Sample ID: SD-F3

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 11-3-87
Percent Moisture (Not Decanted): 24

Date Extracted/Prepared: 11-3-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	13	U	78-87-5	1,2-Dichloropropane	7	U
74-83-9	Bromomethane	13	U	10061-02-6	Trans-1,3-Dichloropropene	7	U
75-01-4	Vinyl Chloride	13	U	79-01-6	Trichloroethene	7	U
75-00-3	Chloroethane	13	U	124-48-1	Dibromochloromethane	7	U
75-09-2	Methylene Chloride	1	J	79-00-5	1,1,2-Trichloroethane	7	U
67-64-1	Acetone	16		71-43-2	Benzene	7	U
75-15-0	Carbon Disulfide	7	U	10061-01-5	cis-1,3-Dichloropropene	7	U
75-35-4	1,1-Dichloroethene	7	U	110-75-8	2-Chloroethylvinylether	13	U
75-34-3	1,1-Dichloroethane	7	U	75-25-2	Bromoform	7	U
156-60-5	Trans-1,2-Dichloroethene	7	U	591-78-6	4-Methyl-2-Pentanone	13	U
67-77-3	Chloroform	7	U	108-10-1	2-Hexanone	13	U
107-06-2	1,2-Dichloroethane	7	U	127-18-4	Tetrachloroethene	7	U
78-93-3	2-Butanone	13	U	79-34-5	1,1,2,2-Tetrachloroethane	7	U
71-55-6	1,1,1-Trichloroethane	7	U	108-88-3	Toluene	7	U
56-23-5	Carbon Tetrachloride	7	U	108-90-7	Chlorobenzene	7	U
108-05-4	Vinyl Acetate	13	U	100-41-4	Ethylbenzene	7	U
75-27-4	Bromodichloromethane	7	U	100-42-5	Styrene	7	U
					Total Xylenes	7	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compuonds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets idenitfication criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75644
Sample ID: SD-F2

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 11-3-87
Percent Moisture (Not Decanted): 23

Date Extracted/Prepared: 11-3-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	13	U	78-87-5	1,2-Dichloropropane	6	U
74-83-9	Bromomethane	13	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
75-01-4	Vinyl Chloride	13	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	13	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	6	U	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	13	U	71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	13	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	U
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	13	U
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	13	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
78-93-3	2-Butanone	13	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	1	J
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	13	U	100-41-4	Ethylbenzene	6	U
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meets idenitfication criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75644
Sample ID: SD-F1

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 11-6-87
Percent Moisture (Not Decanted): 48

Date Extracted/Prepared: 11-6-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	19	U	78-87-5	1,2-Dichloropropane	10	U
74-83-9	Bromomethane	19	U	10061-02-6	Trans-1,3-Dichloropropene	10	U
75-01-4	Vinyl Chloride	19	U	79-01-6	Trichloroethene	10	U
75-00-3	Chloroethane	19	U	124-48-1	Dibromochloromethane	10	U
75-09-2	Methylene Chloride	10	U	79-00-5	1,1,2-Trichloroethane	10	U
67-64-1	Acetone	19	U	71-43-2	Benzene	10	U
75-15-0	Carbon Disulfide	10	U	10061-01-5	cis-1,3-Dichloropropene	10	U
75-35-4	1,1-Dichloroethene	10	U	110-75-8	2-Chloroethylvinylether	19	U
75-34-3	1,1-Dichloroethane	10	U	75-25-2	Bromoform	10	
156-60-5	Trans-1,2-Dichloroethene	10	U	591-78-6	4-Methyl-2-Pentanone	19	U
67-77-3	Chloroform	10	U	108-10-1	2-Hexanone	19	U
107-06-2	1,2-Dichloroethane	10	U	127-18-4	Tetrachloroethene	10	U
78-93-3	2-Butanone	19	U	79-34-5	1,1,2,2-Tetrachloroethane	10	U
71-55-6	1,1,1-Trichloroethane	10	U	108-88-3	Toluene	2	J
56-23-5	Carbon Tetrachloride	10	U	108-90-7	Chlorobenzene	10	U
108-05-4	Vinyl Acetate	19	U	100-41-4	Ethylbenzene	10	U
75-27-4	Bromodichloromethane	10	U	100-42-5	Styrene	10	U
					Total Xylenes	10	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meets idenitfication criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75644
Sample ID: SD-E4

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 11-6-87
Percent Moisture (Not Decanted): 26

Date Extracted/Prepared: 11-6-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	14	U	78-87-5	1,2-Dichloropropane	7	U
74-83-9	Bromomethane	14	U	10061-02-6	Trans-1,3-Dichloropropene	7	"
75-01-4	-Vinyl Chloride	14	U	79-01-6	Trichloroethene	7	U
75-00-3	Chloroethane	14	U	124-48-1	Dibromochloromethane	7	U
75-09-2	Methylene Chloride	7	U	79-00-5	1,1,2-Trichloroethane	7	U
67-64-1	Acetone	4	JB	71-43-2	Benzene	7	
75-15-0	Carbon Disulfide	7	U	10061-01-5	cis-1,3-Dichloropropene	7	
75-35-4	1,1-Dichloroethene	7	U	110-75-8	2-Chloroethylvinylether	14	U
75-34-3	1,1-Dichloroethane	7	U	75-25-2	Bromoform	7	U
156-60-5	Trans-1,2-Dichloroethene	7	U	591-78-6	4-Methyl-2-Pentanone	14	
67-77-3	Chloroform	7	U	108-10-1	2-Hexanone	14	U
107-06-2	1,2-Dichloroethane	7	U	127-18-4	Tetrachloroethene	7	"
78-93-3	2-Butanone	14	U	79-34-5	1,1,2,2-Tetrachloroethane	7	
71-55-6	1,1,1-Trichloroethane	7	U	108-88-3	Toluene	7	U
56-23-5	Carbon Tetrachloride	7	U	108-90-7	Chlorobenzene	7	U
108-05-4	Vinyl Acetate	14	U	100-41-4	Ethylbenzene	7	
75-27-4	Bromodichloromethane	7	U	100-42-5	Styrene	7	
					Total Xylenes	7	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meets idenitfication criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75644
Sample ID: SD-E3

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 11-6-87
Percent Moisture (Not Decanted): 20

Date Extracted/Prepared: 11-6-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	13	U	78-87-5	1,2-Dichloropropane	6	U
74-83-9	Bromomethane	13	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
75-01-4	Vinyl Chloride	13	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	13	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	3	JB	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	13	U	71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	13	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	1
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	13	U
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	13	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
78-93-3	2-Butanone	13	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	6	U
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	13	U	100-41-4	Ethylbenzene	6	U
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meets idenitfication criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75644
Sample ID: SD-E2

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 11-3-87
Percent Moisture (Not Decanted): 23

Date Extracted/Prepared: 11-3-87
Conc/Dil Factor: 1

CAS #		ug/kg		CAS#		ug/kg	
74-87-3	Chloromethane	13	U	78-87-5	1,2-Dichloropropane	6	U
74-83-9	Bromomethane	13	U	10061-02-6	Trans-1,3-Dichloropropene	6	U
75-01-4	Vinyl Chloride	13	U	79-01-6	Trichloroethene	6	U
75-00-3	Chloroethane	13	U	124-48-1	Dibromochloromethane	6	U
75-09-2	Methylene Chloride	3	J	79-00-5	1,1,2-Trichloroethane	6	U
67-64-1	Acetone	13	U	71-43-2	Benzene	6	U
75-15-0	Carbon Disulfide	6	U	10061-01-5	cis-1,3-Dichloropropene	6	U
75-35-4	1,1-Dichloroethene	6	U	110-75-8	2-Chloroethylvinylether	13	U
75-34-3	1,1-Dichloroethane	6	U	75-25-2	Bromoform	6	U
156-60-5	Trans-1,2-Dichloroethene	6	U	591-78-6	4-Methyl-2-Pentanone	13	U
67-77-3	Chloroform	6	U	108-10-1	2-Hexanone	13	U
107-06-2	1,2-Dichloroethane	6	U	127-18-4	Tetrachloroethene	6	U
78-93-3	2-Butanone	13	U	79-34-5	1,1,2,2-Tetrachloroethane	6	U
71-55-6	1,1,1-Trichloroethane	6	U	108-88-3	Toluene	6	U
56-23-5	Carbon Tetrachloride	6	U	108-90-7	Chlorobenzene	6	U
108-05-4	Vinyl Acetate	13	U	100-41-4	Ethylbenzene	6	U
75-27-4	Bromodichloromethane	6	U	100-42-5	Styrene	6	U
					Total Xylenes	6	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meets idenitfication criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75644
Sample ID: SW-D-4

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 11-5-87
Date Analyzed: 11-15-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): NA

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/l		CAS #		ug/l	
108-95-2	Phenol	20	U	83-32-9	Acenaphthene	20	U
111-44-4	bis(2-Chloroethyl)Ether	20	U	51-28-5	2,4-Dinitrophenol	100	U
95-57-8	2-Chlorophenol	20	U	100-02-7	4-Nitrophenol	100	U
541-73-1	1,3-Dichlorobenzene	20	U	132-64-9	Dibenzofuran	20	U
106-46-7	1,4-Dichlorobenzene	20	U	121-14-2	2,4-Dinitrotoluene	20	U
100-51-6	Benzyl Alcohol	20	U	606-20-2	2,6-Dinitrotoluene	20	U
95-50-1	1,2-Dichlorobenzene	20	U	84-66-2	Diethylphthalate	20	
95-48-7	2-Methylphenol	20	U	7005-72-3	4-Chlorophenyl-phenylether	20	
39638-32-9	bis(2-chloroisopropyl)Ether	20	U	86-73-7	Fluorene	20	U
106-44-5	4-Methylphenol	20	U	100-01-6	4-Nitroaniline	100	U
621-64-7	N-Nitroso-Di-n-Propylamine	20	U	534-52-1	4,6-Dinitro-2-Methylphenol	100	U
67-72-1	Hexachloroethane	20	U	86-30-6	N-Nitrosodiphenylamine(1)	20	U
98-95-3	Nitrobenzene	20	U	101-55-3	4-Bromophenyl-phenlyether	20	U
78-59-1	Isophorone	20	U	118-74-1	Hexachlorobenzene	20	U
88-75-5	2-Nitrophenol	20	U	87-86-5	Pentachlorophenol	100	U
105-67-9	2,4-Dimethylphenol	20	U	85-01-8	Phenanthrene	20	U
65-85-0	Benzoic Acid	20	U	120-12-7	Anthracene	20	U
111-91-1	bis(2-Chloroethoxy)Methane	20	U	84-74-2	Di-n-Butylphthalate	20	U
120-83-2	2,4-Dichlorophenol	20	U	206-44-0	Fluoranthene	20	U
120-82-1	1,2,4-Trichlorobenzene	20	U	129-00-0	Pyrene	20	U
91-20-3	Naphthalene	20	U	85-68-7	Butylbenzylphthalate	20	U
106-47-8	4-Chloroaniline	20	U	91-94-1	3,3'-Dichlorobenzidine	40	U
87-68-3	Hexachlorobutadiene	20	U	56-55-3	Benzo(a)Anthracene	20	U
59-50-7	4-Chloro-3-Methylphenol	20	U	117-81-7	bis(2-Ethylhexyl)Phthalate	140	
91-57-6	2-Methylnaphthalene	20	U	218-01-9	Chrysene	20	U
77-47-4	Hexachlorocyclopentadiene	20	U	117-84-0	Di-n-Octyl Phthalate	20	U
88-06-2	2,4,6-Trichlorophenol	20	U	205-99-2	Benzo(b)Fluoranthene	20	U
95-95-4	2,4,5-Trichlorophenol	100	U	207-08-9	Benzo(k)Fluoranthene	20	U
91-58-7	2-Chloronaphthalene	20	U	50-32-8	Benzo(a)Pyrene	20	U
88-74-4	2-Nitroaniline	100	U	193-39-5	Indeno(1,2,3-cd)Pyrene	20	U
131-11-3	Dimethyl Phthalate	20	U	53-70-3	Dibenzo(a,h)Anthracene	20	U
208-96-8	Acenaphthylene	20	U	191-24-2	Benzo(g,h,i)Perylene	20	U
				99-09-2	3-Nitroaniline	100	

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75644
Sample ID: SW-D-1

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 11-4-87
Percent Moisture (Not Decanted): NA

Date Extracted/Prepared: 11-4-87
Conc/Dil Factor: 1

CAS #		ug/l		CAS #		ug/l	
74-87-3	Chloromethane	10	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	10	U	10061-02-6	Trans-1,3-Dichloropropene	5	U
75-01-4	Vinyl Chloride	10	U	79-01-6	Trichloroethene	5	U
75-00-3	Chloroethane	10	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	5	U	79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	44		71-43-2	Benzene	5	U
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	U
75-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethylvinylether	10	U
75-34-3	1,1-Dichloroethane	5	U	75-25-2	Bromoform	5	U
156-60-5	Trans-1,2-Dichloroethene	5	U	591-78-6	4-Methyl-2-Pentanone	10	U
67-77-3	Chloroform	5	U	108-10-1	2-Hexanone	10	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	5	U
78-93-3	2-Butanone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	5	U
56-23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
108-05-4	Vinyl Acetate	10	U	100-41-4	Ethylbenzene	5	U
75-27-4	Bromodichloromethane	5	U	100-42-5	Styrene	5	U
					Total Xylenes	5	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compuonds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets idenitfication criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75644
Sample ID: SW-A4

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 11-4-87
Percent Moisture (Not Decanted): NA

Date Extracted/Prepared: 11-4-87
Conc/Dil Factor: 1

CAS #		ug/l		CAS #		ug/l	
74-87-3	Chloromethane	10	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	10	U	10061-02-6	Trans-1,3-Dichloropropene	5	U
75-01-4	Vinyl Chloride	10	U	79-01-6	Trichloroethene	5	U
75-00-3	Chloroethane	10	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	5	U	79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	10	U	71-43-2	Benzene	5	U
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	U
75-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethylvinylether	10	U
75-34-3	1,1-Dichloroethane	5	U	75-25-2	Bromoform	5	U
156-60-5	Trans-1,2-Dichloroethene	5	U	591-78-6	4-Methyl-2-Pentanone	10	U
67-77-3	Chloroform	5	U	108-10-1	2-Hexanone	10	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	5	U
78-93-3	2-Butanone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	5	U
56-23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
108-05-4	Vinyl Acetate	10	U	100-41-4	Ethylbenzene	5	U
75-27-4	Bromodichloromethane	5	U	100-42-5	Styrene	5	U
					Total Xylenes	5	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meets idenitfication criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES
Job Number: 75644
Sample ID: SW-A1

United States Testing Company, Inc.
Organics Analysis Data Sheet

Volatile Compounds

Concentration: Low
Date Analyzed: 11-4-87
Percent Moisture (Not Decanted): NA

Date Extracted/Prepared: 11-4-87
Conc/Dil Factor: 1

CAS #		ug/l		CAS #		ug/l	
74-87-3	Chloromethane	10	U	78-87-5	1,2-Dichloropropane	5	U
74-83-9	Bromomethane	10	U	10061-02-6	Trans-1,3-Dichloropropene	5	U
75-01-4	Vinyl Chloride	10	U	79-01-6	Trichloroethene	5	U
75-00-3	Chloroethane	10	U	124-48-1	Dibromochloromethane	5	U
75-09-2	Methylene Chloride	5	U	79-00-5	1,1,2-Trichloroethane	5	U
67-64-1	Acetone	10	U	71-43-2	Benzene	5	U
75-15-0	Carbon Disulfide	5	U	10061-01-5	cis-1,3-Dichloropropene	5	U
75-35-4	1,1-Dichloroethene	5	U	110-75-8	2-Chloroethylvinylether	10	U
75-34-3	1,1-Dichloroethane	5	U	75-25-2	Bromoform	5	U
156-60-5	Trans-1,2-Dichloroethene	5	U	591-78-6	4-Methyl-2-Pentanone	10	U
67-77-3	Chloroform	5	U	108-10-1	2-Hexanone	10	U
107-06-2	1,2-Dichloroethane	5	U	127-18-4	Tetrachloroethene	5	U
78-93-3	2-Butanone	10	U	79-34-5	1,1,2,2-Tetrachloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U	108-88-3	Toluene	5	U
56-23-5	Carbon Tetrachloride	5	U	108-90-7	Chlorobenzene	5	U
108-05-4	Vinyl Acetate	10	U	100-41-4	Ethylbenzene	5	U
75-27-4	Bromodichloromethane	5	U	100-42-5	Styrene	5	U
					Total Xylenes	5	U

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit.

B The analyte was found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.

J Indicates an estimated value. This 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 indicated the presence of a compound that meets idenitfication criteria but the result is less than the specified detection limit but greater than zero (e.g. if limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated report as 3J)

U Indicates compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Client: CENTURY LABORATORIES INC.
Job Number: 75577
Sample ID: S-W-1-5

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: LOW
Date Extracted/Prepared: 10-14-87
Date Analyzed: 10-21-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 13

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)Ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
100-51-6	Benzyl Alcohol	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
39638-32-9	bis(2-Chloroisopropyl)Ether	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-Di-n-Propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
65-85-0	Benzoic Acid	360	U
111-91-1	bis(2-Chloroethoxy)Methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-Methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	1900	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethyl Phthalate	150	J
208-96-8	Acenaphthylene	360	U

CAS#		ug/kg	
83-32-9	Acenaphthene	360	U
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	1900	U
534-52-1	4,6-Dinitro-2-Methylphenol	1900	U
86-30-6	N-Nitrosodiphenylamine(1)	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	360	U
120-12-7	Anthracene	360	U
84-74-2	Di-n-Butylphthalate	840	
206-44-0	Fluoranthene	360	U
129-00-0	Pyrene	360	U
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	770	U
56-55-3	Benzo(a)Anthracene	360	U
117-81-7	bis(2-Ethylhexyl)Phthalate	730	
218-01-9	Chrysene	360	U
117-84-0	Di-n-Octyl Phthalate	360	U
205-99-2	Benzo(b)Fluoranthene	360	U
207-08-9	Benzo(k)Fluoranthene	360	U
50-32-8	Benzo(a)Pyrene	360	U
193-39-5	Indeno(1,2,3-cd)Pyrene	360	U
53-70-3	Dibenzo(a,h)Anthracene	360	U
191-24-2	Benzo(g,h,i)Perylene	360	U
99-09-2	3-Nitroaniline	1900	U

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75621
Sample ID: S-W-3B-1

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: LOW
Date Extracted/Prepared: 10-31-87
Date Analyzed: 11-6-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 11

GPC Cleanup: NO
Separatory Funnel Extraction: NO
Continuous Liquid-Liquid Extraction: NO

CAS #		ug/kg		CAS#		ug/kg	
108-95-2	Phenol	370	U	83-32-9	Acenaphthene	370	U
111-44-4	bis(2-Chloroethyl)Ether	370	U	51-28-5	2,4-Dinitrophenol	1900	U
95-57-8	2-Chlorophenol	370	U	100-02-7	4-Nitrophenol	1900	U
541-73-1	1,3-Dichlorobenzene	370	U	132-64-9	Dibenzofuran	37	J
106-46-7	1,4-Dichlorobenzene	370	U	121-14-2	2,4-Dinitrotoluene	370	U
100-51-6	Benzyl Alcohol	370	U	606-20-2	2,6-Dinitrotoluene	370	U
95-50-1	1,2-Dichlorobenzene	370	U	84-66-2	Diethylphthalate	370	U
95-48-7	2-Methylphenol	370	U	7005-72-3	4-Chlorophenyl-phenylether	370	U
39638-32-9	bis(2-chloroisopropyl)Ether	370	U	86-73-7	Fluorene	370	U
106-44-5	4-Methylphenol	370	U	100-01-6	4-Nitroaniline	1900	U
621-64-7	N-Nitroso-Di-n-Propylamine	370	U	534-52-1	4,6-Dinitro-2-Methylphenol	1900	U
67-72-1	Hexachloroethane	370	U	86-30-6	N-Nitrosodiphenylamine(1)	370	U
98-95-3	Nitrobenzene	370	U	101-55-3	4-Bromophenyl-phenylether	370	U
78-59-1	Isophorone	370	U	118-74-1	Hexachlorobenzene	370	U
88-75-5	2-Nitrophenol	370	U	87-86-5	Pentachlorophenol	1900	U
105-67-9	2,4-Dimethylphenol	370	U	85-01-8	Phenanthrene	370	U
65-85-0	Benzoic Acid	370	U	120-12-7	Anthracene	370	U
111-91-1	bis(2-Chloroethoxy)Methane	370	U	84-74-2	Di-n-Butylphthalate	520	
120-83-2	2,4-Dichlorophenol	370	U	206-44-0	Fluoranthene	410	
120-82-1	1,2,4-Trichlorobenzene	370	U	129-00-0	Pyrene	370	
91-20-3	Naphthalene	370	U	85-68-7	Butylbenzylphthalate	370	U
106-47-8	4-Chloroaniline	370	U	91-94-1	3,3'-Dichlorobenzidine	750	U
87-68-3	Hexachlorobutadiene	370	U	56-55-3	Benzo(a)Anthracene	370	U
59-50-7	4-Chloro-3-Methylphenol	370	U	117-81-7	bis(2-Ethylhexyl)Phthalate	540	
91-57-6	2-Methylnaphthalene	370	U	218-01-9	Chrysene	220	J
77-47-4	Hexachlorocyclopentadiene	370	U	117-84-0	Di-n-Octyl Phthalate	370	U
88-06-2	2,4,6-Trichlorophenol	370	U	205-99-2	Benzo(b)Fluoranthene	370	U
95-95-4	2,4,5-Trichlorophenol	1900	U	207-08-9	Benzo(k)Fluoranthene	370	U
91-58-7	2-Chloronaphthalene	370	U	50-32-8	Benzo(a)Pyrene	190	J
88-74-4	2-Nitroaniline	1900	U	193-39-5	Indeno(1,2,3-cd)Pyrene	370	U
131-11-3	Dimethyl Phthalate	370	U	53-70-3	Dibenzo(a,h)Anthracene	370	U
208-96-8	Acenaphthylene	370	U	191-24-2	Benzo(g,h,i)Perylene	370	U
				99-09-2	3-Nitroaniline	1900	U

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75621
Sample ID: S-W-38-36

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 10-31-87
Date Analyzed: 11-8-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 19

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg		CAS#		ug/kg	
108-95-2	Phenol	410	U	83-32-9	Acenaphthene	410	U
111-44-4	bis(2-Chloroethyl)Ether	410	U	51-28-5	2,4-Dinitrophenol	2100	U R
95-57-8	2-Chlorophenol	410	U R	100-02-7	4-Nitrophenol	2100	U R
541-73-1	1,3-Dichlorobenzene	410	U	132-64-9	Dibenzofuran	410	U
106-46-7	1,4-Dichlorobenzene	410	U	121-14-2	2,4-Dinitrotoluene	410	U
100-51-6	Benzyl Alcohol	410	U	606-20-2	2,6-Dinitrotoluene	410	U
95-50-1	1,2-Dichlorobenzene	410	U	84-66-2	Diethylphthalate	410	U
95-48-7	2-Methylphenol	410	U R	7005-72-3	4-Chlorophenyl-phenylether	410	U
39638-32-9	bis(2-chloroisopropyl)Ether	410	U	86-73-7	Fluorene	410	U
106-44-5	4-Methylphenol	410	U R	100-01-6	4-Nitroaniline	2100	U
621-64-7	N-Nitroso-Di-n-Propylamine	410	U	534-52-1	4,6-Dinitro-2-Methylphenol	2100	U R
67-72-1	Hexachloroethane	410	U	86-30-6	N-Nitrosodiphenylamine(1)	410	U
98-95-3	Nitrobenzene	410	U	101-55-3	4-Bromophenyl-phenylether	410	U
78-59-1	Isophorone	410	U	118-74-1	Hexachlorobenzene	410	U
88-75-5	2-Nitrophenol	410	U R	87-86-5	Pentachlorophenol	2100	U R
105-67-9	2,4-Dimethylphenol	410	U R	85-01-8	Phenanthrene	370	J
65-85-0	Benzoic Acid	410	U R	120-12-7	Anthracene	410	U
111-91-1	bis(2-Chloroethoxy)Methane	410	U	84-74-2	Di-n-Butylphthalate	2400	
120-83-2	2,4-Dichlorophenol	410	U R	206-44-0	Fluoranthene	370	J
120-82-1	1,2,4-Trichlorobenzene	410	U	129-00-0	Pyrene	330	J
91-20-3	Naphthalene	410	U	85-68-7	Butylbenzylphthalate	410	U
106-47-8	4-Chloroaniline	410	U	91-94-1	3,3'-Dichlorobenzidine	820	U
87-68-3	Hexachlorobutadiene	410	U	56-55-3	Benzo(a)Anthracene	370	J
59-50-7	4-Chloro-3-Methylphenol	410	U R	117-81-7	bis(2-Ethylhexyl)Phthalate	7200	
91-57-6	2-Methylnaphthalene	410	U	218-01-9	Chrysene	330	J
77-47-4	Hexachlorocyclopentadiene	410	U	117-84-0	Di-n-Octyl Phthalate	410	U
88-06-2	2,4,6-Trichlorophenol	410	U R	205-99-2	Benzo(b)Fluoranthene	820	
95-95-4	2,4,5-Trichlorophenol	2100	U R	207-08-9	Benzo(k)Fluoranthene	410	U
91-58-7	2-Chloronaphthalene	410	U	50-32-8	Benzo(a)Pyrene	450	
88-74-4	2-Nitroaniline	2100	U	193-39-5	Indeno(1,2,3-cd)Pyrene	410	U
131-11-3	Dimethyl Phthalate	410	U	53-70-3	Dibenzo(a,h)Anthracene	410	U
208-96-8	Acenaphthylene	410	U	191-24-2	Benzo(g,h,i)Perylene	410	U
				99-09-2	3-Nitroaniline	2100	U

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75621
Sample ID: S-W-36-4

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 10-31-87
Date Analyzed: 11-8-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 13

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg		CAS#		ug/kg	
108-95-2	Phenol	380	U	83-32-9	Acenaphthene	380	U
111-44-4	bis(2-Chloroethyl)Ether	380	U	51-28-5	2,4-Dinitrophenol	1900	U R
95-57-8	2-Chlorophenol	380	U R	100-02-7	4-Nitrophenol	1900	U R
541-73-1	1,3-Dichlorobenzene	380	U	132-64-9	Dibenzofuran	380	U
106-46-7	1,4-Dichlorobenzene	380	U	121-14-2	2,4-Dinitrotoluene	380	U
100-51-6	Benzyl Alcohol	380	U	606-20-2	2,6-Dinitrotoluene	380	U
95-50-1	1,2-Dichlorobenzene	380	U	84-66-2	Diethylphthalate	380	U
95-48-7	2-Methylphenol	380	U R	7005-72-3	4-Chlorophenyl-phenylether	380	U R
39638-32-9	bis(2-chloroisopropyl)Ether	380	U	86-73-7	Fluorene	380	U
106-44-5	4-Methylphenol	380	U R	100-01-6	4-Nitroaniline	1900	U
621-64-7	N-Nitroso-Di-n-Propylamine	380	U	534-52-1	4,6-Dinitro-2-Methylphenol	1900	U R
67-72-1	Hexachloroethane	380	U	86-30-6	N-Nitrosodiphenylamine(1)	380	U R
98-95-3	Nitrobenzene	380	U	101-55-3	4-Bromophenyl-phenylether	380	U R
78-59-1	Isophorone	380	U	118-74-1	Hexachlorobenzene	380	U
88-75-5	2-Nitrophenol	380	U R	87-86-5	Pentachlorophenol	1900	U R
105-67-9	2,4-Dimethylphenol	380	U R	85-01-8	Phenanthrene	3000	
65-85-0	Benzoic Acid	380	U R	120-12-7	Anthracene	380	U
111-91-1	bis(2-Chloroethoxy)Methane	380	U	84-74-2	Di-n-Butylphthalate	1300	
120-83-2	2,4-Dichlorophenol	380	U R	206-44-0	Fluoranthene	3300	
120-82-1	1,2,4-Trichlorobenzene	380	U	129-00-0	Pyrene	3000	
91-20-3	Naphthalene	380	U	85-68-7	Butylbenzylphthalate	380	U
106-47-8	4-Chloroaniline	380	U	91-94-1	3,3'-Dichlorobenzidine	770	U
87-68-3	Hexachlorobutadiene	380	U	56-55-3	Benzo(a)Anthracene	1700	
59-50-7	4-Chloro-3-Methylphenol	380	U R	117-81-7	bis(2-Ethylhexyl)Phthalate	380	U
91-57-6	2-Methylnaphthalene	380	U	218-01-9	Chrysene	1400	
77-47-4	Hexachlorocyclopentadiene	380	U	117-84-0	Di-n-Octyl Phthalate	5900	
88-06-2	2,4,6-Trichlorophenol	380	U R	205-99-2	Benzo(b)Fluoranthene	2500	
95-95-4	2,4,5-Trichlorophenol	1900	U R	207-08-9	Benzo(k)Fluoranthene	380	U
91-58-7	2-Chloronaphthalene	380	U	50-32-8	Benzo(a)Pyrene	380	U
88-74-4	2-Nitroaniline	1900	U	193-39-5	Indeno(1,2,3-cd)Pyrene	380	U
131-11-3	Dimethyl Phthalate	380	U	53-70-3	Dibenzo(a,h)Anthracene	380	U
208-96-8	Acenaphthylene	380	U	191-24-2	Benzo(g,h,i)Perylene	380	U
				99-09-2	3-Nitroaniline	1900	U

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75623
Sample ID: S-W-38-6

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: LOW
Date Extracted/Prepared: 10-31-87
Date Analyzed: 11-3-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 10

GPC Cleanup: NO
Separatory Funnel Extraction: NO
Continuous Liquid-Liquid Extraction: NO

CAS #		ug/kg		CAS#		ug/kg	
108-95-2	Phenol	370	U	83-32-9	Acenaphthene	370	U
111-44-4	bis(2-Chloroethyl)Ether	370	U	51-28-5	2,4-Dinitrophenol	1900	U R
95-57-8	2-Chlorophenol	370	U R	100-02-7	4-Nitrophenol	1900	U R
541-73-1	1,3-Dichlorobenzene	370	U	132-64-9	Dibenzofuran	370	U
106-46-7	1,4-Dichlorobenzene	370	U	121-14-2	2,4-Dinitrotoluene	370	U
100-51-6	Benzyl Alcohol	370	U	606-20-2	2,6-Dinitrotoluene	370	U
95-50-1	1,2-Dichlorobenzene	370	U	84-66-2	Diethylphthalate	370	U
95-48-7	2-Methylphenol	370	U R	7005-72-3	4-Chlorophenyl-phenylether	370	U
39638-32-9	bis(2-chloroisopropyl)Ether	370	U	86-73-7	Fluorene	370	U
106-44-5	4-Methylphenol	370	U R	100-01-6	4-Nitroaniline	1900	U
621-64-7	N-Nitroso-Di-n-Propylamine	370	U	534-52-1	4,6-Dinitro-2-Methylphenol	1900	U R
67-72-1	Hexachloroethane	370	U	86-30-6	N-Nitrosodiphenylamine(1)	370	U
98-95-3	Nitrobenzene	370	U	101-55-3	4-Bromophenyl-phenylether	370	U
78-59-1	Isophorone	370	U	118-74-1	Hexachlorobenzene	370	U
88-75-5	2-Nitrophenol	370	U R	87-86-5	Pentachlorophenol	1900	U R
105-67-9	2,4-Dimethylphenol	370	U R	85-01-8	Phenanthrene	370	U
65-85-0	Benzoic Acid	370	U R	120-12-7	Anthracene	370	U
111-91-1	bis(2-Chloroethoxy)Methane	370	U	84-74-2	Di-n-Butylphthalate	3200	
120-83-2	2,4-Dichlorophenol	370	U R	206-44-0	Fluoranthene	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U	129-00-0	Pyrene	370	U
91-20-3	Naphthalene	370	U	85-68-7	Butylbenzylphthalate	370	U
106-47-8	4-Chloroaniline	370	U	91-94-1	3,3'-Dichlorobenzidine	740	U
87-68-3	Hexachlorobutadiene	370	U	56-55-3	Benzo(a)Anthracene	370	U
59-50-7	4-Chloro-3-Methylphenol	370	U R	117-81-7	bis(2-Ethylhexyl)Phthalate	370	U
91-57-6	2-Methylnaphthalene	370	U	218-01-9	Chrysene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U	117-84-0	Di-n-Octyl Phthalate	370	U
88-06-2	2,4,6-Trichlorophenol	370	U R	205-99-2	Benzo(b)Fluoranthene	370	U
95-95-4	2,4,5-Trichlorophenol	1900	U R	207-08-9	Benzo(k)Fluoranthene	370	U
91-58-7	2-Chloronaphthalene	370	U R	50-32-8	Benzo(a)Pyrene	370	U
88-74-4	2-Nitroaniline	1900	U	193-39-5	Indeno(1,2,3-cd)Pyrene	370	U
131-11-3	Dimethyl Phthalate	370	U	53-70-3	Dibenzo(a,h)Anthracene	370	U
208-96-8	Acenaphthylene	370	U	191-24-2	Benzo(g,h,i)Perylene	370	U
				99-09-2	3-Nitroaniline	1900	U

(1) Cannot be separated from Diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75632
Sample ID: S-W-39-8

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 11-2-87
Date Analyzed: 11-13-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 15

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg		CAS#		ug/kg	
108-95-2	Phenol	390	U	83-32-9	Acenaphthene	390	U
111-44-4	bis(2-Chloroethyl)Ether	390	U	51-28-5	2,4-Dinitrophenol	2000	U
95-57-8	2-Chlorophenol	390	U	100-02-7	4-Nitrophenol	2000	U
541-73-1	1,3-Dichlorobenzene	390	U	132-64-9	Dibenzofuran	390	U
106-46-7	1,4-Dichlorobenzene	390	U	121-14-2	2,4-Dinitrotoluene	390	U
100-51-6	Benzyl Alcohol	390	U	606-20-2	2,6-Dinitrotoluene	390	U
95-50-1	1,2-Dichlorobenzene	390	U	84-66-2	Diethylphthalate	390	U
95-48-7	2-Methylphenol	390	U	7005-72-3	4-Chlorophenyl-phenylether	390	U
39638-32-9	bis(2-chloroisopropyl)Ether	390	U	86-73-7	Fluorene	390	U
106-44-5	4-Methylphenol	390	U	100-01-6	4-Nitroaniline	2000	U
621-64-7	N-Nitroso-Di-n-Propylamine	390	U	534-52-1	4,6-Dinitro-2-Methylphenol	2000	U
67-72-1	Hexachloroethane	390	U	86-30-6	N-Nitrosodiphenylamine(1)	390	U
98-95-3	Nitrobenzene	390	U	101-55-3	4-Bromophenyl-phenylether	390	U
78-59-1	Isophorone	390	U	118-74-1	Hexachlorobenzene	390	U
88-75-5	2-Nitrophenol	390	U	87-86-5	Pentachlorophenol	2000	U
105-67-9	2,4-Dimethylphenol	390	U	85-01-8	Phenanthrene	390	U
65-85-0	Benzoic Acid	390	U	120-12-7	Anthracene	390	U
111-91-1	bis(2-Chloroethoxy)Methane	390	U	84-74-2	Di-n-Butylphthalate	2400	B
120-83-2	2,4-Dichlorophenol	390	U	206-44-0	Fluoranthene	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U	129-00-0	Pyrene	390	U
91-20-3	Naphthalene	390	U	85-68-7	Butylbenzylphthalate	1200	
106-47-8	4-Chloroaniline	390	U	91-94-1	3,3'-Dichlorobenzidine	780	U
87-68-3	Hexachlorobutadiene	390	U	56-55-3	Benzo(a)Anthracene	390	U
59-50-7	4-Chloro-3-Methylphenol	390	U	117-81-7	bis(2-Ethylhexyl)Phthalate	820	B
91-57-6	2-Methylnaphthalene	390	U	218-01-9	Chrysene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U	117-84-0	Di-n-Octyl Phthalate	39	J
88-06-2	2,4,6-Trichlorophenol	390	U	205-99-2	Benzo(b)Fluoranthene	390	U
95-95-4	2,4,5-Trichlorophenol	2000	U	207-08-9	Benzo(k)Fluoranthene	390	U
91-58-7	2-Chloronaphthalene	390	U	50-32-8	Benzo(a)Pyrene	390	U
88-74-4	2-Nitroaniline	2000	U	193-39-5	Indeno(1,2,3-cd)Pyrene	390	U
131-11-3	Dimethyl Phthalate	390	U	53-70-3	Dibenzo(a,h)Anthracene	390	U
208-96-8	Acenaphthylene	390	U	191-24-2	Benzo(g,h,i)Perylene	390	U
				99-09-2	3-Nitroaniline	2000	U

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75632
Sample ID: S-W-3B-10

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 11-2-87
Date Analyzed: 11-13-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 15

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg		CAS#		ug/kg	
108-95-2	Phenol	390	U	83-32-9	Acenaphthene	390	-
111-44-4	bis(2-Chloroethyl)Ether	390	U	51-28-5	2,4-Dinitrophenol	2000	-
95-57-8	2-Chlorophenol	390	U	100-02-7	4-Nitrophenol	2000	-
541-73-1	1,3-Dichlorobenzene	390	U	132-64-9	Dibenzofuran	390	-
106-46-7	1,4-Dichlorobenzene	390	U	121-14-2	2,4-Dinitrotoluene	390	-
100-51-6	Benzyl Alcohol	390	U	606-20-2	2,6-Dinitrotoluene	390	-
95-50-1	1,2-Dichlorobenzene	390	U	84-66-2	Diethylphthalate	390	-
95-48-7	2-Methylphenol	390	U	7005-72-3	4-Chlorophenyl-phenylether	390	-
39638-32-9	bis(2-chloroisopropyl)Ether	390	U	86-73-7	Fluorene	390	-
106-44-5	4-Methylphenol	390	U	100-01-6	4-Nitroaniline	2000	-
621-64-7	N-Nitroso-Di-n-Propylamine	390	U	534-52-1	4,6-Dinitro-2-Methylphenol	2000	-
67-72-1	Hexachloroethane	390	U	86-30-6	N-Nitrosodiphenylamine(1)	390	-
98-95-3	Nitrobenzene	390	U	101-55-3	4-Bromophenyl-phenylether	390	-
78-59-1	Isophorone	390	U	118-74-1	Hexachlorobenzene	390	-
88-75-5	2-Nitrophenol	390	U	87-86-5	Pentachlorophenol	2000	
105-67-9	2,4-Dimethylphenol	390	U	85-01-8	Phenanthrene	390	
65-85-0	Benzoic Acid	390	U	120-12-7	Anthracene	390	
111-91-1	bis(2-Chloroethoxy)Methane	390	U	84-74-2	Di-n-Butylphthalate	1700	
120-83-2	2,4-Dichlorophenol	390	U	206-44-0	Fluoranthene	390	-
120-82-1	1,2,4-Trichlorobenzene	390	U	129-00-0	Pyrene	390	-
91-20-3	Naphthalene	390	U	85-68-7	Butylbenzylphthalate	1600	
106-47-8	4-Chloroaniline	390	U	91-94-1	3,3'-Dichlorobenzidine	780	-
87-68-3	Hexachlorobutadiene	390	U	56-55-3	Benzo(a)Anthracene	390	-
59-50-7	4-Chloro-3-Methylphenol	390	U	117-81-7	bis(2-Ethylhexyl)Phthalate	1400	-
91-57-6	2-Methylnaphthalene	390	U	218-01-9	Chrysene	390	-
77-47-4	Hexachlorocyclopentadiene	390	U	117-84-0	Di-n-Octyl Phthalate	39	-
88-06-2	2,4,6-Trichlorophenol	390	U	205-99-2	Benzo(b)Fluoranthene	390	-
95-95-4	2,4,5-Trichlorophenol	2000	U	207-08-9	Benzo(k)Fluoranthene	390	-
91-58-7	2-Chloronaphthalene	390	U	50-32-8	Benzo(a)Pyrene	390	-
88-74-4	2-Nitroaniline	2000	U	193-39-5	Indeno(1,2,3-cd)Pyrene	390	-
131-11-3	Dimethyl Phthalate	390	U	53-70-3	Dibenzo(a,h)Anthracene	390	
208-96-8	Acenaphthylene	390	U	191-24-2	Benzo(g,h,i)Perylene	390	-
				99-09-2	3-Nitroaniline	2000	-

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75632
Sample ID: S-W-38-12

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 11-2-87
Date Analyzed: 11-13-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 18

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg		CAS#		ug/kg	
108-95-2	Phenol	410	U	83-32-9	Acenaphthene	410	U
111-44-4	bis(2-Chloroethyl)Ether	410	U	51-28-5	2,4-Dinitrophenol	2000	U
95-57-8	2-Chlorophenol	410	U	100-02-7	4-Nitrophenol	2000	U
541-73-1	1,3-Dichlorobenzene	410	U	132-64-9	Dibenzofuran	410	U
106-46-7	1,4-Dichlorobenzene	410	U	121-14-2	2,4-Dinitrotoluene	410	U
100-51-6	Benzyl Alcohol	410	U	606-20-2	2,6-Dinitrotoluene	410	U
95-50-1	1,2-Dichlorobenzene	410	U	84-66-2	Diethylphthalate	410	U
95-48-7	2-Methylphenol	410	U	7005-72-3	4-Chlorophenyl-phenylether	410	U
39638-32-9	bis(2-chloroisopropyl)Ether	410	U	86-73-7	Fluorene	410	U
106-44-5	4-Methylphenol	410	U	100-01-6	4-Nitroaniline	2000	U
621-64-7	N-Nitroso-Di-n-Propylamine	410	U	534-52-1	4,6-Dinitro-2-Methylphenol	2000	U
67-72-1	Hexachloroethane	410	U	86-30-6	N-Nitrosodiphenylamine(1)	410	U
98-95-3	Nitrobenzene	410	U	101-55-3	4-Bromophenyl-phenylether	410	U
78-59-1	Isophorone	410	U	118-74-1	Hexachlorobenzene	410	U
88-75-5	2-Nitrophenol	410	U	87-86-5	Pentachlorophenol	2000	U
105-67-9	2,4-Dimethylphenol	410	U	85-01-8	Phenanthrene	410	U
65-85-0	Benzoic Acid	410	U	120-12-7	Anthracene	410	U
111-91-1	bis(2-Chloroethoxy)Methane	410	U	84-74-2	Di-n-Butylphthalate	2300	B
120-83-2	2,4-Dichlorophenol	410	U	206-44-0	Fluoranthene	410	U
120-82-1	1,2,4-Trichlorobenzene	410	U	129-00-0	Pyrene	410	U
91-20-3	Naphthalene	410	U	85-68-7	Butylbenzylphthalate	410	U
106-47-8	4-Chloroaniline	410	U	91-94-1	3,3'-Dichlorobenzidine	810	U
87-68-3	Hexachlorobutadiene	410	U	56-55-3	Benzo(a)Anthracene	410	U
59-50-7	4-Chloro-3-Methylphenol	410	U	117-81-7	bis(2-Ethylhexyl)Phthalate	770	B
91-57-6	2-Methylnaphthalene	410	U	218-01-9	Chrysene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U	117-84-0	Di-n-Octyl Phthalate	410	U
88-06-2	2,4,6-Trichlorophenol	410	U	205-99-2	Benzo(b)Fluoranthene	410	U
95-95-4	2,4,5-Trichlorophenol	2000	U	207-08-9	Benzo(k)Fluoranthene	410	U
91-58-7	2-Chloronaphthalene	410	U	50-32-8	Benzo(a)Pyrene	410	U
88-74-4	2-Nitroaniline	2000	U	193-39-5	Indeno(1,2,3-cd)Pyrene	410	U
131-11-3	Dimethyl Phthalate	410	U	53-70-3	Dibenzo(a,h)Anthracene	410	U
208-96-8	Acenaphthylene	410	U	191-24-2	Benzo(g,h,i)Perylene	410	U
				99-09-2	3-Nitroaniline	2000	U

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75598
Sample ID: 5-8-2-6 (75598-1)

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: LOW
Date Extracted/Prepared: 10-20-87
Date Analyzed: 10-23-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 14

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg		CAS#		ug/kg	
108-95-2	Phenol	390	U	83-32-9	Acenaphthene	390	U
111-44-4	bis(2-Chloroethyl)Ether	390	U	51-28-5	2,4-Dinitrophenol	1900	U
95-57-8	2-Chlorophenol	390	U	100-02-7	4-Nitrophenol	1900	U
541-73-1	1,3-Dichlorobenzene	390	U	132-64-9	Dibenzofuran	390	U
106-46-7	1,4-Dichlorobenzene	390	U	121-14-2	2,4-Dinitrotoluene	390	U
100-51-6	Benzyl Alcohol	390	U	606-20-2	2,6-Dinitrotoluene	390	U
95-50-1	1,2-Dichlorobenzene	390	U	84-66-2	Diethylphthalate	390	U
95-48-7	2-Methylphenol	390	U	7005-72-3	4-Chlorophenyl-phenylether	390	U
39638-32-9	bis(2-chloroisopropyl)Ether	390	U	86-73-7	Fluorene	390	U
106-44-5	4-Methylphenol	390	U	100-01-6	4-Nitroaniline	1900	U
621-64-7	N-Nitroso-Di-n-Propylamine	390	U	534-52-1	4,6-Dinitro-2-Methylphenol	1900	U
67-72-1	Hexachloroethane	390	U	86-30-6	N-Nitrosodiphenylamine(1)	390	U
98-95-3	Nitrobenzene	390	U	101-55-3	4-Bromophenyl-phenylether	390	U
78-59-1	Isophorone	390	U	118-74-1	Hexachlorobenzene	390	U
88-75-5	2-Nitrophenol	390	U	87-86-5	Pentachlorophenol	1900	U
105-67-9	2,4-Dimethylphenol	390	U	85-01-8	Phenanthrene	390	U
65-85-0	Benzoic Acid	390	U	120-12-7	Anthracene	390	U
111-91-1	bis(2-Chloroethoxy)Methane	390	U	84-74-2	Di-n-Butylphthalate	310	J
120-83-2	2,4-Dichlorophenol	390	U	206-44-0	Fluoranthene	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U	129-00-0	Pyrene	390	U
91-20-3	Naphthalene	390	U	85-68-7	Butylbenzylphthalate	390	U
106-47-8	4-Chloroaniline	390	U	91-94-1	3,3'-Dichlorobenzidine	780	U
87-68-3	Hexachlorobutadiene	390	U	56-55-3	Benzo(a)Anthracene	290	J
59-50-7	4-Chloro-3-Methylphenol	390	U	117-81-7	bis(2-Ethylhexyl)Phthalate	390	U
91-57-6	2-Methylnaphthalene	390	U	218-01-9	Chrysene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U	117-84-0	Di-n-Octyl Phthalate	390	U
88-06-2	2,4,6-Trichlorophenol	390	U	205-99-2	Benzo(b)Fluoranthene	390	U
95-95-4	2,4,5-Trichlorophenol	1900	U	207-08-9	Benzo(k)Fluoranthene	390	U
91-58-7	2-Chloronaphthalene	390	U	50-32-8	Benzo(a)Pyrene	390	U
88-74-4	2-Nitroaniline	1900	U	193-39-5	Indeno(1,2,3-cd)Pyrene	390	U
131-11-3	Dimethyl Phthalate	390	U	53-70-3	Dibenzo(a,h)Anthracene	390	U
208-96-8	Acenaphthylene	390	U	191-24-2	Benzo(g,h,i)Perylene	390	U
				99-09-2	3-Nitroaniline	1900	U

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75598
Sample ID: S-B-2-7 (75598-2)

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 10-20-87
Date Analyzed: 10-29-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 11

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg		CAS#		ug/kg	
108-95-2	Phenol	370	U	83-32-9	Acenaphthene	370	U
111-44-4	bis(2-Chloroethyl)Ether	370	U	51-28-5	2,4-Dinitrophenol	1900	U
95-57-8	2-Chlorophenol	370	U	100-02-7	4-Nitrophenol	1900	U
541-73-1	1,3-Dichlorobenzene	370	U	132-64-9	Dibenzofuran	370	U
106-46-7	1,4-Dichlorobenzene	370	U	121-14-2	2,4-Dinitrotoluene	370	U
100-51-6	Benzyl Alcohol	370	U	606-20-2	2,6-Dinitrotoluene	370	U
95-50-1	1,2-Dichlorobenzene	370	U	84-66-2	Diethylphthalate	370	U
95-48-7	2-Methylphenol	370	U	7005-72-3	4-Chlorophenyl-phenylether	370	U
39638-32-9	bis(2-chloroisopropyl)Ether	370	U	86-73-7	Fluorene	370	U
106-44-5	4-Methylphenol	370	U	100-01-6	4-Nitroaniline	1900	U
621-64-7	N-Nitroso-Di-n-Propylamine	370	U	534-52-1	4,6-Dinitro-2-methylphenol	1900	U
67-72-1	Hexachloroethane	370	U	86-30-6	N-Nitrosodiphenylamine(1)	370	U
98-95-3	Nitrobenzene	370	U	101-55-3	4-Bromophenyl-phenylether	370	U
78-59-1	Isophorone	370	U	118-74-1	Hexachlorobenzene	370	U
88-75-5	2-Nitrophenol	370	U	87-86-5	Pentachlorophenol	1900	U
105-67-9	2,4-Dimethylphenol	370	U	85-01-8	Phenanthrene	370	U
65-85-0	Benzoic Acid	370	U	120-12-7	Anthracene	370	U
111-91-1	bis(2-Chloroethoxy)Methane	370	U	84-74-2	Di-n-Butylphthalate	150	J
120-83-2	2,4-Dichlorophenol	370	U	206-44-0	Fluoranthene	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U	129-00-0	Pyrene	370	U
91-20-3	Naphthalene	370	U	85-68-7	Butylbenzylphthalate	370	U
106-47-8	4-Chloroaniline	370	U	91-94-1	3,3'-Dichlorobenzidine	750	U
87-68-3	Hexachlorobutadiene	370	U	56-55-3	Benzo(a)Anthracene	370	U
59-50-7	4-Chloro-3-Methylphenol	370	U	117-81-7	bis(2-Ethylhexyl)Phthalate	540	
91-57-6	2-Methylnaphthalene	370	U	218-01-9	Chrysene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U	117-84-0	Di-n-Octyl Phthalate	370	U
88-06-2	2,4,6-Trichlorophenol	370	U	205-99-2	Benzo(b)Fluoranthene	370	U
95-95-4	2,4,5-Trichlorophenol	1900	U	207-08-9	Benzo(k)Fluoranthene	370	U
91-58-7	2-Chloronaphthalene	370	U	50-32-8	Benzo(a)Pyrene	370	U
88-74-4	2-Nitroaniline	1900	U	193-39-5	Indeno(1,2,3-cd)Pyrene	370	U
131-11-3	Dimethyl Phthalate	370	U	53-70-3	Dibenzo(a,h)Anthracene	370	U
208-96-8	Acenaphthylene	370	U	191-24-2	Benzo(g,h,i)Perylene	370	U
				99-09-2	3-Nitroaniline	1900	U

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75549
Sample ID: SD-A1

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 11-5-87
Date Analyzed: 11-19-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 17

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg		CAS#		ug/kg	
108-95-2	Phenol	400	U	83-32-9	Acenaphthene	400	U
111-44-4	bis(2-Chloroethyl)Ether	400	U	51-28-5	2,4-Dinitrophenol	2000	U
95-57-8	2-Chlorophenol	400	U	100-02-7	4-Nitrophenol	2000	U
541-73-1	1,3-Dichlorobenzene	400	U	132-64-9	Dibenzofuran	400	U
106-46-7	1,4-Dichlorobenzene	400	U	121-14-2	2,4-Dinitrotoluene	400	U
100-51-6	Benzyl Alcohol	400	U	606-20-2	2,6-Dinitrotoluene	400	U
95-50-1	1,2-Dichlorobenzene	400	U	84-66-2	Diethylphthalate	400	U
95-48-7	2-Methylphenol	400	U	7005-72-3	4-Chlorophenyl-phenylether	400	U
39638-32-9	bis(2-chloroisopropyl)Ether	400	U	86-73-7	Fluorene	400	U
106-44-5	4-Methylphenol	400	U	100-01-6	4-Nitroaniline	2000	U
621-64-7	N-Nitroso-Di-n-Propylamine	400	U	534-52-1	4,6-Dinitro-2-Methylphenol	2000	U
67-72-1	Hexachloroethane	400	U	86-30-6	N-Nitrosodiphenylamine(1)	400	U
98-95-3	Nitrobenzene	400	U	101-55-3	4-Bromophenyl-phenylether	400	U
78-59-1	Isophorone	400	U	118-74-1	Hexachlorobenzene	400	U
88-75-5	2-Nitrophenol	400	U	87-86-5	Pentachlorophenol	2000	U
105-67-9	2,4-Dimethylphenol	400	U	85-01-8	Phenanthrene	400	U
65-85-0	Benzoic Acid	400	U	120-12-7	Anthracene	400	U
111-91-1	bis(2-Chloroethoxy)Methane	400	U	84-74-2	Di-n-Butylphthalate	400	U
120-83-2	2,4-Dichlorophenol	400	U	206-44-0	Fluoranthene	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U	129-00-0	Pyrene	400	U
91-20-3	Naphthalene	400	U	85-68-7	Butylbenzylphthalate	400	U
106-47-8	4-Chloroaniline	400	U	91-94-1	3,3'-Dichlorobenzidine	800	U
87-68-3	Hexachlorobutadiene	400	U	56-55-3	Benzo(a)Anthracene	400	U
59-50-7	4-Chloro-3-Methylphenol	400	U	117-81-7	bis(2-Ethylhexyl)Phthalate	650	
91-57-6	2-Methylnaphthalene	400	U	218-01-9	Chrysene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U	117-84-0	Di-n-Octyl Phthalate	400	U
88-06-2	2,4,6-Trichlorophenol	400	U	205-99-2	Benzo(b)Fluoranthene	400	U
95-95-4	2,4,5-Trichlorophenol	2000	U	207-08-9	Benzo(k)Fluoranthene	400	U
91-58-7	2-Chloronaphthalene	400	U	50-32-8	Benzo(a)Pyrene	400	U
88-74-4	2-Nitroaniline	2000	U	193-39-5	Indeno(1,2,3-cd)Pyrene	400	U
131-11-3	Dimethyl Phthalate	400	U	53-70-3	Dibenzo(a,h)Anthracene	400	U
208-96-8	Acenaphthylene	400	U	191-24-2	Benzo(g,h,i)Perylene	400	U
				99-09-2	3-Nitroaniline	2000	U

(1) Cannot be separated from diphenylamine

CENTURY LABORATORIES
75549
0-A3

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

ation: Low
racted/Prepared: 11-5-87
lyzed: 11-19-87
l Factor: 1
Moisture (Decanted): 27

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

		ug/kg		CAS#		ug/kg	
2	Phenol	460	U	83-32-9	Acenaphthene	460	U
4	bis(2-Chloroethyl)Ether	460	U	51-28-5	2,4-Dinitrophenol	2300	U
	2-Chlorophenol	460	U	100-02-7	4-Nitrophenol	2300	U
1	1,3-Dichlorobenzene	460	U	132-64-9	Dibenzofuran	460	U
7	1,4-Dichlorobenzene	460	U	121-14-2	2,4-Dinitrotoluene	460	U
8	Benzyl Alcohol	460	U	606-20-2	2,6-Dinitrotoluene	460	U
	1,2-Dichlorobenzene	460	U	84-66-2	Diethylphthalate	460	U
	2-Methylphenol	460	U	7005-72-3	4-Chlorophenyl-phenylether	460	U
2-9	bis(2-chloroisopropyl)Ether	460	U	86-73-7	Fluorene	460	U
5	4-Methylphenol	460	U	100-01-6	4-Nitroaniline	2300	U
7	N-Nitroso-Di-n-Propylamine	460	U	534-52-1	4,6-Dinitro-2-Methylphenol	2300	U
	Hexachloroethane	460	U	86-30-6	N-Nitrosodiphenylamine(1)	460	U
	Nitrobenzene	460	U	101-55-3	4-Bromophenyl-phenylether	460	U
	Isophorone	460	U	118-74-1	Hexachlorobenzene	460	U
	2-Nitrophenol	460	U	87-86-5	Pentachlorophenol	2300	U
-9	2,4-Dimethylphenol	460	U	85-01-8	Phenanthrene	320	J
)	Benzoic Acid	460	U	120-12-7	Anthracene	460	U
-1	bis(2-Chloroethoxy)Methane	460	U	84-74-2	Di-n-Butylphthalate	460	U
-2	2,4-Dichlorophenol	460	U	206-44-0	Fluoranthene	410	J
-1	1,2,4-Trichlorobenzene	460	U	129-00-0	Pyrene	320	J
)	Naphthalene	460	U	85-68-7	Butylbenzylphthalate	460	U
-8	4-Chloroaniline	460	U	91-94-1	3,3'-Dichlorobenzidine	910	U
3	Hexachlorobutadiene	460	U	56-55-3	Benzo(a)Anthracene	460	U
7	4-Chloro-3-Methylphenol	460	U	117-81-7	bis(2-Ethylhexyl)Phthalate	2000	
3	2-Methylnaphthalene	460	U	218-01-9	Chrysene	230	J
4	Hexachlorocyclopentadiene	460	U	117-84-0	Di-n-Octyl Phthalate	460	U
2	2,4,6-Trichlorophenol	460	U	205-99-2	Benzo(b)Fluoranthene	460	U
4	2,4,5-Trichlorophenol	2300	U	207-08-9	Benzo(k)Fluoranthene	460	U
7	2-Chloronaphthalene	460	U	50-32-8	Benzo(a)Pyrene	460	U
4	2-Nitroaniline	2300	U	193-39-5	Indeno(1,2,3-cd)Pyrene	460	U
-3	Dimethyl Phthalate	460	U	53-70-3	Dibenzo(a,h)Anthracene	460	U
-1	Acenaphthylene	460	U	191-24-2	Benzo(g,h,i)Perylene	460	U
				99-09-2	3-Nitroaniline	2300	U

(1) Cannot be separated from diphenylamine

t: CENTURY LABORATORIES
umber: 75649
e 10-31

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

ntration: Low
Ext cted/Prepared: 11-5-87
Analyzed: 11-19-87
Dil Factor: 1
nt isture (Decanted): 19

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

		ug/kg		CAS#		ug/kg	
5-2	Phenol	410	U	83-32-9	Acenaphthene	700	
4-4	bis(2-Chloroethyl)Ether	410	U	51-28-5	2,4-Dinitrophenol	2100	U
-8	2-Chlorophenol	410	U	100-02-7	4-Nitrophenol	2100	U
3-1	1,3-Dichlorobenzene	410	U	132-64-9	Dibenzofuran	450	
6-7	1,4-Dichlorobenzene	410	U	121-14-2	2,4-Dinitrotoluene	410	U
1-6	Benzyl Alcohol	410	U	606-20-2	2,6-Dinitrotoluene	410	U
-1	1,2-Dichlorobenzene	410	U	84-66-2	Diethylphthalate	410	U
-7	2-Methylphenol	410	U	7005-72-3	4-Chlorophenyl-phenylether	410	U
-32	bis(2-chloroisopropyl)Ether	410	U	86-73-7	Fluorene	860	
4-5	4-Methylphenol	410	U	100-01-6	4-Nitroaniline	2100	U
4-7	N-Nitroso-Di-n-Propylamine	410	U	534-52-1	4,6-Dinitro-2-Methylphenol	2100	U
-1	Hexachloroethane	410	U	86-30-6	N-Nitrosodiphenylamine(1)	410	U
-3	Nitrobenzene	410	U	101-55-3	4-Bromophenyl-phenlyether	410	U
-1	Isophorone	410	U	118-74-1	Hexachlorobenzene	410	U
-5	2-Nitrophenol	410	U	87-86-5	Pentachlorophenol	2100	U
7-9	2,4-Dimethylphenol	410	U	85-01-8	Phenanthrene	3200	
-0	Benzoic Acid	410	U	120-12-7	Anthracene	820	
1-1	bis(2-Chloroethoxy)Methane	410	U	84-74-2	Di-n-Butylphthalate	410	U
3-2	2,4-Dichlorophenol	410	U	206-44-0	Fluoranthene	3500	
2-1	1,2,4-Trichlorobenzene	410	U	129-00-0	Pyrene	2500	
-3	Naphthalene	860		85-68-7	Butylbenzylphthalate	410	U
7-8	4-Chloroaniline	410	U	91-94-1	3,3'-Dichlorobenzidine	820	U
-3	Hexachlorobutadiene	410	U	56-55-3	Benzo(a)Anthracene	2400	
-7	4-Chloro-3-Methylphenol	410	U	117-81-7	bis(2-Ethylhexyl)Phthalate	2400	
-6	2-Methylnaphthalene	210	J	218-01-9	Chrysene	2100	
-4	Hexachlorocyclopentadiene	410	U	117-84-0	Di-n-Octyl Phthalate	410	U
-2	2,4,6-Trichlorophenol	410	U	205-99-2	Benzo(b)Fluoranthene	3700	
-4	2,4,5-Trichlorophenol	2100	U	207-08-9	Benzo(k)Fluoranthene	410	U
-7	2-Chloronaphthalene	410	U	50-32-8	Benzo(a)Pyrene	2100	
-4	2-Nitroaniline	2100	U	193-39-5	Indeno(1,2,3-cd)Pyrene	410	U
.-3	Dimethyl Phthalate	410	U	53-70-3	Dibenzo(a,h)Anthracene	410	U
5-8	Acenaphthylene	410	U	191-24-2	Benzo(g,h,i)Perylene	410	U
				99-09-2	3-Nitroaniline	2100	U

(1) Cannot be separated from diphenylamine

CENTURY LABORATORIES
75649
)-82

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

ration: Low
tracted/Prepared: 11-5-87
alyzed: 11-19-87
l Factor: 1
Moisture (Decanted): 20

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

		ug/kg		CAS#		ug/kg	
2	Phenol	420	U	83-32-9	Acenaphthene	420	U
4	bis(2-Chloroethyl)Ether	420	U	51-28-5	2,4-Dinitrophenol	2100	U
	2-Chlorophenol	420	U	100-02-7	4-Nitrophenol	2100	U
1	1,3-Dichlorobenzene	420	U	132-64-9	Dibenzofuran	420	U
7	1,4-Dichlorobenzene	420	U	121-14-2	2,4-Dinitrotoluene	420	U
5	Benzyl Alcohol	420	U	606-20-2	2,6-Dinitrotoluene	420	U
	1,2-Dichlorobenzene	420	U	84-66-2	Diethylphthalate	420	U
	2-Methylphenol	420	U	7005-72-3	4-Chlorophenyl-phenylether	420	U
2-9	bis(2-chloroisopropyl)Ether	420	U	86-73-7	Fluorene	420	U
5	4-Methylphenol	420	U	100-01-6	4-Nitroaniline	2100	U
7	N-Nitroso-Di-n-Propylamine	420	U	534-52-1	4,6-Dinitro-2-Methylphenol	2100	U
	Hexachloroethane	420	U	86-30-6	N-Nitrosodiphenylamine(1)	420	U
	Nitrobenzene	420	U	101-55-3	4-Bromophenyl-phenlyether	420	U
	Isophorone	420	U	118-74-1	Hexachlorobenzene	420	U
	2-Nitrophenol	420	U	87-86-5	Pentachlorophenol	2100	U
9	2,4-Dimethylphenol	420	U	85-01-8	Phenanthrene	210	J
	Benzoic Acid	420	U	120-12-7	Anthracene	420	U
1	bis(2-Chloroethoxy)Methane	420	U	84-74-2	Di-n-Butylphthalate	420	U
2	2,4-Dichlorophenol	420	U	206-44-0	Fluoranthene	170	J
1	1,2,4-Trichlorobenzene	420	U	129-00-0	Pyrene	170	J
3	Naphthalene	420	U	85-68-7	Butylbenzylphthalate	420	U
8	4-Chloroaniline	420	U	91-94-1	3,3'-Dichlorobenzidine	830	U
3	Hexachlorobutadiene	420	U	56-55-3	Benzo(a)Anthracene	83	J
7	4-Chloro-3-Methylphenol	420	U	117-81-7	bis(2-Ethylhexyl)Phthalate	1300	
5	2-Methylnaphthalene	420	U	218-01-9	Chrysene	83	J
4	Hexachlorocyclopentadiene	420	U	117-84-0	Di-n-Octyl Phthalate	420	U
2	2,4,6-Trichlorophenol	420	U	205-99-2	Benzo(b)Fluoranthene	420	U
4	2,4,5-Trichlorophenol	2100	U	207-08-9	Benzo(k)Fluoranthene	420	U
7	2-Chloronaphthalene	420	U	50-32-8	Benzo(a)Pyrene	420	U
4	2-Nitroaniline	2100	U	193-39-5	Indeno(1,2,3-cd)Pyrene	420	U
-3	Dimethyl Phthalate	420	U	53-70-3	Dibenzo(a,h)Anthracene	420	U
-9	Acenaphthylene	420	U	191-24-2	Benzo(g,h,i)Perylene	420	U
				99-09-2	3-Nitroaniline	2100	U

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES
Lab Number: 75649
Sample ID: SD-B4

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 11-5-87
Date Analyzed: 11-19-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 20

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg		CAS#		ug/kg	
108-95-2	Phenol	420	U	83-32-9	Acenaphthene	210	J
111-44-4	bis(2-Chloroethyl)Ether	420	U	51-28-5	2,4-Dinitrophenol	2100	U
95-57-8	2-Chlorophenol	420	U	100-02-7	4-Nitrophenol	2100	U
541-73-1	1,3-Dichlorobenzene	420	U	132-64-9	Dibenzofuran	210	J
106-46-7	1,4-Dichlorobenzene	420	U	121-14-2	2,4-Dinitrotoluene	420	U
100-51-6	Benzyl Alcohol	420	U	606-20-2	2,6-Dinitrotoluene	420	U
-50-1	1,2-Dichlorobenzene	420	U	84-66-2	Diethylphthalate	420	U
95-48-7	2-Methylphenol	420	U	7005-72-3	4-Chlorophenyl-phenylether	420	U
39638-32-9	bis(2-chloroisopropyl)Ether	420	U	86-73-7	Fluorene	290	J
106-44-5	4-Methylphenol	420	U	100-01-6	4-Nitroaniline	2100	U
621-64-7	N-Nitroso-Di-n-Propylamine	420	U	534-52-1	4,6-Dinitro-2-Methylphenol	2100	U
67-72-1	Hexachloroethane	420	U	86-30-6	N-Nitrosodiphenylamine(1)	420	U
98-95-3	Nitrobenzene	420	U	101-55-3	4-Bromophenyl-phenylether	420	U
78-59-1	Isophorone	420	U	118-74-1	Hexachlorobenzene	420	U
88-75-5	2-Nitrophenol	420	U	87-86-5	Pentachlorophenol	2100	U
105-67-9	2,4-Dimethylphenol	420	U	85-01-8	Phenanthrene	1600	
65-85-0	Benzoic Acid	420	U	120-12-7	Anthracene	210	J
111-91-1	bis(2-Chloroethoxy)Methane	420	U	84-74-2	Di-n-Butylphthalate	420	U
120-83-2	2,4-Dichlorophenol	420	U	206-44-0	Fluoranthene	1300	
120-82-1	1,2,4-Trichlorobenzene	420	U	129-00-0	Pyrene	830	
91-20-3	Naphthalene	420	U	85-68-7	Butylbenzylphthalate	420	U
106-47-8	4-Chloroaniline	420	U	91-94-1	3,3'-Dichlorobenzidine	830	U
87-68-3	Hexachlorobutadiene	420	U	56-55-3	Benzo(a)Anthracene	460	
59-50-7	4-Chloro-3-Methylphenol	420	U	117-81-7	bis(2-Ethylhexyl)Phthalate	1600	
91-57-6	2-Methylnaphthalene	420	U	218-01-9	Chrysene	460	J
77-47-4	Hexachlorocyclopentadiene	420	U	117-84-0	Di-n-Octy) Phthalate	420	U
88-06-2	2,4,6-Trichlorophenol	420	U	205-99-2	Benzo(b)Fluoranthene	710	
95-95-4	2,4,5-Trichlorophenol	2100	U	207-08-9	Benzo(k)Fluoranthene	420	U
91-58-7	2-Chloronaphthalene	420	U	50-32-8	Benzo(a)Pyrene	420	
88-74-4	2-Nitroaniline	2100	U	193-39-5	Indeno(1,2,3-cd)Pyrene	420	U
131-11-3	Dimethyl Phthalate	420	U	53-70-3	Dibenzo(a,h)Anthracene	420	U
208-96-8	Acenaphthylene	420	U	191-24-2	Benzo(g,h,i)Perylene	420	U
				99-09-2	3-Nitroaniline	2100	U

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75649
Sample ID: SD-C2

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 11-5-87
Date Analyzed: 11-16-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 14

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
108-95-2	Phenol	390	U
111-44-4	bis(2-Chloroethyl)Ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
100-51-6	Benzyl Alcohol	390	U
[illegible]-50-1	1,2-Dichlorobenzene	390	U
95-48-7	2-Methylphenol	390	U
39638-32-9	bis(2-chloroisopropyl)Ether	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-Di-n-Propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
65-85-0	Benzoic Acid	390	U
111-91-1	bis(2-Chloroethoxy)Methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	120	J
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-Methylphenol	390	U
91-57-6	2-Methylnaphthalene	160	J
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	1900	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethyl Phthalate	390	U
[illegible]-96-8	Acenaphthylene	78	J

CAS#		ug/kg	
83-32-9	Acenaphthene	470	
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
132-64-9	Dibenzofuran	430	
121-14-2	2,4-Dinitrotoluene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	740	
100-01-6	4-Nitroaniline	1900	U
534-52-1	4,6-Dinitro-2-Methylphenol	1900	U
86-30-6	N-Nitrosodiphenylamine(1)	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	3300	
120-12-7	Anthracene	810	
84-74-2	Di-n-Butylphthalate	78	J
206-44-0	Fluoranthene	3000	
129-00-0	Pyrene	1900	
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	780	U
56-55-3	Benzo(a)Anthracene	2000	
117-81-7	bis(2-Ethylhexyl)Phthalate	1600	
218-01-9	Chrysene	1500	
117-84-0	Di-n-Octyl Phthalate	390	U
205-99-2	Benzo(b)Fluoranthene	2100	
207-08-9	Benzo(k)Fluoranthene	810	
50-32-8	Benzo(a)Pyrene	1600	
193-39-5	Indeno(1,2,3-cd)Pyrene	390	U
53-70-3	Dibenzo(a,h)Anthracene	160	J
191-24-2	Benzo(g,h,i)Perylene	390	U
99-09-2	3-Nitroaniline	1900	U

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75649
Sample ID: SD-C4

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 11-5-87
Date Analyzed: 11-16-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 23

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg		CAS#		ug/kg	
108-95-2	Phenol	430	U	83-32-9	Acenaphthene	430	U
111-44-4	bis(2-Chloroethyl)Ether	430	U	51-28-5	2,4-Dinitrophenol	2200	U
95-57-8	2-Chlorophenol	430	U	100-02-7	4-Nitrophenol	2200	U
541-73-1	1,3-Dichlorobenzene	430	U	132-64-9	Dibenzofuran	430	U
106-46-7	1,4-Dichlorobenzene	430	U	121-14-2	2,4-Dinitrotoluene	430	U
100-51-6	Benzyl Alcohol	430	U	606-20-2	2,6-Dinitrotoluene	430	U
95-50-1	1,2-Dichlorobenzene	430	U	84-66-2	Diethylphthalate	430	U
95-48-7	2-Methylphenol	430	U	7005-72-3	4-Chlorophenyl-phenylether	430	U
39638-32-9	bis(2-chloroisopropyl)Ether	430	U	86-73-7	Fluorene	430	U
106-44-5	4-Methylphenol	430	U	100-01-6	4-Nitroaniline	2200	U
621-64-7	N-Nitroso-Di-n-Propylamine	430	U	534-52-1	4,6-Dinitro-2-Methylphenol	2200	U
67-72-1	Hexachloroethane	430	U	86-30-6	N-Nitrosodiphenylamine(1)	430	U
98-95-3	Nitrobenzene	430	U	101-55-3	4-Bromophenyl-phenylether	430	U
78-59-1	Isophorone	430	U	118-74-1	hexachlorobenzene	430	U
88-75-5	2-Nitrophenol	430	U	87-86-5	Pentachlorophenol	2200	U
105-67-9	2,4-Dimethylphenol	430	U	85-01-8	Phenanthrene	430	U
65-85-0	Benzoic Acid	430	U	120-12-7	Anthracene	430	U
111-91-1	bis(2-Chloroethoxy)Methane	430	U	84-74-2	Di-n-Butylphthalate	430	U
120-83-2	2,4-Dichlorophenol	430	U	206-44-0	Fluoranthene	430	U
120-82-1	1,2,4-Trichlorobenzene	430	U	129-00-0	Pyrene	430	U
91-20-3	Naphthalene	430	U	85-68-7	Butylbenzylphthalate	430	U
106-47-8	4-Chloroaniline	430	U	91-94-1	3,3'-Dichlorobenzidine	870	U
87-68-3	Hexachlorobutadiene	430	U	56-55-3	Benzo(a)Anthracene	430	U
59-50-7	4-Chloro-3-Methylphenol	430	U	117-81-7	bis(2-Ethylhexyl)Phthalate	1300	
91-57-6	2-Methylnaphthalene	430	U	218-01-9	Chrysene	430	U
77-47-4	Hexachlorocyclopentadiene	430	U	117-84-0	Di-n-Octyl Phthalate	430	U
88-06-2	2,4,6-Trichlorophenol	430	U	205-99-2	Benzo(b)Fluoranthene	430	U
95-95-4	2,4,5-Trichlorophenol	2200	U	207-08-9	Benzo(k)Fluoranthene	430	U
91-58-7	2-Chloronaphthalene	430	U	50-32-8	Benzo(a)Pyrene	430	U
88-74-4	2-Nitroaniline	2200	U	193-39-5	Indeno(1,2,3-cd)Pyrene	430	U
131-11-3	Dimethyl Phthalate	430	U	53-70-3	Dibenzo(a,h)Anthracene	430	U
208-96-8	Acenaphthylene	430	U	191-24-2	Benzo(g,h,i)Perylene	430	U
				99-09-2	3-Nitroaniline	2200	U

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75649
Sample ID: SD-D2

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 11-5-87
Date Analyzed: 11-16-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 8

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg		CAS#		ug/kg	
108-95-2	Phenol	360	U	83-32-9	Acenaphthene	360	U
111-44-4	bis(2-Chloroethyl)Ether	360	U	51-28-5	2,4-Dinitrophenol	1800	U
95-57-8	2-Chlorophenol	360	U	100-02-7	4-Nitrophenol	1800	U
541-73-1	1,3-Dichlorobenzene	360	U	132-64-9	Dibenzofuran	360	U
106-46-7	1,4-Dichlorobenzene	360	U	121-14-2	2,4-Dinitrotoluene	360	U
100-51-6	Benzyl Alcohol	360	U	606-20-2	2,6-Dinitrotoluene	360	U
95-50-1	1,2-Dichlorobenzene	360	U	84-66-2	Diethylphthalate	360	U
95-48-7	2-Methylphenol	360	U	7005-72-3	4-Chlorophenyl-phenylether	360	U
39638-32-9	bis(2-chloroisopropyl)Ether	360	U	86-73-7	Fluorene	360	U
106-44-5	4-Methylphenol	360	U	100-01-6	4-Nitroaniline	1800	U
621-64-7	N-Nitroso-Di-n-Propylamine	360	U	534-52-1	4,6-Dinitro-2-Methylphenol	1800	U
67-72-1	Hexachloroethane	360	U	86-30-6	N-Nitrosodiphenylamine(1)	360	U
98-95-3	Nitrobenzene	360	U	101-55-3	4-Bromophenyl-phenylether	360	U
78-59-1	Isophorone	360	U	118-74-1	Hexachlorobenzene	360	U
88-75-5	2-Nitrophenol	360	U	87-86-5	Pentachlorophenol	1800	U
105-67-9	2,4-Dimethylphenol	360	U	85-01-8	Phenanthrene	72	J
65-85-0	Benzoic Acid	360	U	120-12-7	Anthracene	360	U
111-91-1	bis(2-Chloroethoxy)Methane	360	U	84-74-2	Di-n-Butylphthalate	110	J
120-83-2	2,4-Dichlorophenol	360	U	206-44-0	Fluoranthene	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U	129-00-0	Pyrene	360	U
91-20-3	Naphthalene	360	U	85-68-7	Butylbenzylphthalate	360	U
106-47-8	4-Chloroaniline	360	U	91-94-1	3,3'-Dichlorobenzidine	720	U
87-68-3	Hexachlorobutadiene	360	U	56-55-3	Benzo(a)Anthracene	360	U
59-50-7	4-Chloro-3-Methylphenol	360	U	117-81-7	bis(2-Ethylhexyl)Phthalate	550	
91-57-6	2-Methylnaphthalene	360	U	218-01-9	Chrysene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U	117-84-0	Di-n-Octyl Phthalate	360	U
88-06-2	2,4,6-Trichlorophenol	360	U	205-99-2	Benzo(b)Fluoranthene	360	U
95-95-4	2,4,5-Trichlorophenol	1800	U	207-08-9	Benzo(k)Fluoranthene	360	U
91-58-7	2-Chloronaphthalene	360	U	50-32-8	Benzo(a)Pyrene	360	U
88-74-4	2-Nitroaniline	1800	U	193-39-5	Indeno(1,2,3-cd)Pyrene	360	U
131-11-3	Dimethyl Phthalate	360	U	53-70-3	Dibenzo(a,h)Anthracene	360	U
208-96-8	Acenaphthylene	360	U	191-24-2	Benzo(g,h,i)Perylene	360	U
				99-09-2	3-Nitroaniline	1800	U

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75649
Sample ID: SD-D4

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 11-5-87
Date Analyzed: 11-16-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 17

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg		CAS#		ug/kg	
108-95-2	Phenol	400	U	83-32-9	Acenaphthene	400	U
111-44-4	bis(2-Chloroethyl)Ether	400	U	51-28-5	2,4-Dinitrophenol	2000	U
95-57-8	2-Chlorophenol	400	U	100-02-7	4-Nitrophenol	2000	U
541-73-1	1,3-Dichlorobenzene	400	U	132-64-9	Dibenzofuran	240	J
106-46-7	1,4-Dichlorobenzene	400	U	121-14-2	2,4-Dinitrotoluene	400	U
100-51-6	Benzyl Alcohol	400	U	606-20-2	2,6-Dinitrotoluene	400	U
95-50-1	1,2-Dichlorobenzene	400	U	84-66-2	Diethylphthalate	400	U
95-48-7	2-Methylphenol	400	U	7005-72-3	4-Chlorophenyl-phenylether	400	U
39638-32-9	bis(2-chloroisopropyl)Ether	400	U	86-73-7	Fluorene	400	U
106-44-5	4-Methylphenol	400	U	100-01-6	4-Nitroaniline	2000	U
621-64-7	N-Nitroso-Di-n-Propylamine	400	U	534-52-1	4,6-Dinitro-2-methylphenol	2000	U
67-72-1	Hexachloroethane	400	U	86-30-6	N-Nitrosodiphenylamine(1)	400	U
98-95-3	Nitrobenzene	400	U	101-55-3	4-Bromophenyl-phenylether	400	U
78-59-1	Isophorone	400	U	118-74-1	Hexachlorobenzene	400	U
88-75-5	2-Nitrophenol	400	U	87-86-5	Pentachlorophenol	2000	U
105-67-9	2,4-Dimethylphenol	400	U	85-01-8	Phenanthrene	2200	
65-85-0	Benzoic Acid	400	U	120-12-7	Anthracene	400	
111-91-1	bis(2-Chloroethoxy)Methane	400	U	84-74-2	Di-n-Butylphthalate	80	J
120-83-2	2,4-Dichlorophenol	400	U	206-44-0	Fluoranthene	1400	
120-82-1	1,2,4-Trichlorobenzene	400	U	129-00-0	Pyrene	550	
91-20-3	Naphthalene	120	JB	85-68-7	Butylbenzylphthalate	400	U
106-47-8	4-Chloroaniline	400	U	91-94-1	3,3'-Dichlorobenzidine	800	U
87-68-3	Hexachlorobutadiene	400	U	56-55-3	Benzo(a)Anthracene	880	
59-50-7	4-Chloro-3-Methylphenol	400	U	117-81-7	bis(2-Ethylhexyl)Phthalate	760	
91-57-6	2-Methylnaphthalene	120	JB	218-01-9	Chrysene	760	
77-47-4	Hexachlorocyclopentadiene	400	U	117-84-0	Di-n-Octyl Phthalate	40	J
88-06-2	2,4,6-Trichlorophenol	400	U	205-99-2	Benzo(b)Fluoranthene	600	
95-95-4	2,4,5-Trichlorophenol	2000	U	207-08-9	Benzo(k)Fluoranthene	1000	
91-58-7	2-Chloronaphthalene	400	U	50-32-8	Benzo(a)Pyrene	680	
88-74-4	2-Nitroaniline	2000	U	193-39-5	Indeno(1,2,3-cd)Pyrene	400	U
131-11-3	Dimethyl Phthalate	400	U	53-70-3	Dibenzo(a,h)Anthracene	400	U
208-96-8	Acenaphthylene	400	U	191-24-2	Benzo(g,h,i)Perylene	400	U
				99-09-2	3-Nitroaniline	2000	U

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75644
Sample ID: SD-F1

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 11-5-87
Date Analyzed: 11-18-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 48

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg		CAS#		ug/kg	
108-95-2	Phenol	640	U	83-32-9	Acenaphthene	710	
111-44-4	bis(2-Chloroethyl)Ether	640	U	51-28-5	2,4-Dinitrophenol	3200	U
95-57-8	2-Chlorophenol	640	U	100-02-7	4-Nitrophenol	3200	U
541-73-1	1,3-Dichlorobenzene	640	U	132-64-9	Dibenzofuran	900	
106-46-7	1,4-Dichlorobenzene	640	U	121-14-2	2,4-Dinitrotoluene	640	U
100-51-6	Benzyl Alcohol	640	U	606-20-2	2,6-Dinitrotoluene	640	U
95-50-1	1,2-Dichlorobenzene	640	U	84-66-2	Diethylphthalate	640	U
95-48-7	2-Methylphenol	640	U	7005-72-3	4-Chlorophenyl-phenylether	640	U
39638-32-9	bis(2-chloroisopropyl)Ether	640	U	86-73-7	Fluorene	1600	
106-44-5	4-Methylphenol	640	U	100-01-6	4-Nitroaniline	3200	U
621-64-7	N-Nitroso-Di-n-Propylamine	640	U	534-52-1	4,6-Dinitro-2-Methylphenol	3200	U
67-72-1	Hexachloroethane	640	U	86-30-6	N-Nitrosodiphenylamine(1)	640	U
98-95-3	Nitrobenzene	640	U	101-55-3	4-Bromophenyl-phenlyether	640	U
78-59-1	Isophorone	640	U	118-74-1	Hexachlorobenzene	640	U
88-75-5	2-Nitrophenol	640	U	87-86-5	Pentachlorophenol	3200	U
105-67-9	2,4-Dimethylphenol	640	U	85-01-8	Phenanthrene	7300	
65-85-0	Benzoic Acid	640	U	120-12-7	Anthracene	2100	
111-91-1	bis(2-Chloroethoxy)Methane	640	U	84-74-2	Di-n-Butylphthalate	580	J
120-83-2	2,4-Dichlorophenol	640	U	206-44-0	Fluoranthene	9400	
120-82-1	1,2,4-Trichlorobenzene	640	U	129-00-0	Pyrene	640	U
91-20-3	Naphthalene	1300		85-68-7	Butylbenzylphthalate	130	J
106-47-8	4-Chloroaniline	640	U	91-94-1	3,3'-Dichlorobenzidine	1100	
87-68-3	Hexachlorobutadiene	640	U	56-55-3	Benzo(a)Anthracene	4600	
59-50-7	4-Chloro-3-Methylphenol	640	U	117-81-7	bis(2-Ethylhexyl)Phthalate	1800	
91-57-6	2-Methylnaphthalene	640		218-01-9	Chrysene	640	U
77-47-4	Hexachlorocyclopentadiene	640	U	117-84-0	Di-n-Octyl Phthalate	64	J
88-06-2	2,4,6-Trichlorophenol	640	U	205-99-2	Benzo(b)Fluoranthene	640	U
95-95-4	2,4,5-Trichlorophenol	3200	U	207-08-9	Benzo(k)Fluoranthene	7000	
91-58-7	2-Chloronaphthalene	640	U	50-32-8	Benzo(a)Pyrene	2600	
88-74-4	2-Nitroaniline	3200	U	193-39-5	Indeno(1,2,3-cd)Pyrene	640	U
131-11-3	Dimethyl Phthalate	640	U	53-70-3	Dibenzo(a,h)Anthracene	640	U
208-96-8	Acenaphthylene	900		191-24-2	Benzo(g,h,i)Perylene	640	U
				99-09-2	3-Nitroaniline	3200	U

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75644
Sample ID: SD-F3

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 11-5-87
Date Analyzed: 11-18-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 24

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg		CAS#		ug/kg	
108-95-2	Phenol	440	U	83-32-9	Acenaphthene	440	U
111-44-4	bis(2-Chloroethyl)Ether	440	U	51-28-5	2,4-Dinitrophenol	2200	U
95-57-8	2-Chlorophenol	440	U	100-02-7	4-Nitrophenol	2200	U
541-73-1	1,3-Dichlorobenzene	440	U	132-64-9	Dibenzofuran	440	U
106-46-7	1,4-Dichlorobenzene	440	U	121-14-2	2,4-Dinitrotoluene	440	U
100-51-6	Benzyl Alcohol	440	U	606-20-2	2,6-Dinitrotoluene	440	U
95-50-1	1,2-Dichlorobenzene	440	U	84-66-2	Diethylphthalate	440	U
95-48-7	2-Methylphenol	440	U	7005-72-3	4-Chlorophenyl-phenylether	440	U
39638-32-9	bis(2-chloroisopropyl)Ether	440	U	86-73-7	Fluorene	440	U
106-44-5	4-Methylphenol	260		100-01-6	4-Nitroaniline	2200	U
621-64-7	N-Nitroso-Di-n-Propylamine	440	U	534-52-1	4,6-Dinitro-2-Methylphenol	2200	U
67-72-1	Hexachloroethane	440	U	86-30-6	N-Nitrosodiphenylamine(1)	440	U
98-95-3	Nitrobenzene	440	U	101-55-3	4-Bromophenyl-phenlyether	440	U
78-59-1	Isophorone	440	U	118-74-1	Hexachlorobenzene	440	U
88-75-5	2-Nitrophenol	440	U	87-86-5	Pentachlorophenol	2200	U
105-67-9	2,4-Dimethylphenol	440	U	85-01-8	Phenanthrene	130	J
65-85-0	Benzoic Acid	440	U	120-12-7	Anthracene	44	J
111-91-1	bis(2-Chloroethoxy)Methane	440	U	84-74-2	Di-n-Butylphthalate	220	J
120-83-2	2,4-Dichlorophenol	440	U	206-44-0	Fluoranthene	220	J
120-82-1	1,2,4-Trichlorobenzene	440	U	129-00-0	Pyrene	88	J
91-20-3	Naphthalene	44	J	85-68-7	Butylbenzylphthalate	440	U
106-47-8	4-Chloroaniline	440	U	91-94-1	3,3'-Dichlorobenzidine	880	U
87-68-3	Hexachlorobutadiene	440	U	56-55-3	Benzo(a)Anthracene	88	J
59-50-7	4-Chloro-3-Methylphenol	440	U	117-81-7	bis(2-Ethylhexyl)Phthalate	660	
91-57-6	2-Methylnapnthalene	440	U	218-01-9	Chrysene	88	J
77-47-4	Hexachlorocyclopentadiene	440	U	117-84-0	Di-n-Octyl Phthalate	440	U
88-06-2	2,4,6-Trichlorophenol	440	U	205-99-2	Benzo(b)Fluoranthene	130	J
95-95-4	2,4,5-Trichlorophenol	2200	U	207-08-9	Benzo(k)Fluoranthene	440	U
91-58-7	2-Chloronaphthalene	440	U	50-32-8	Benzo(a)Pyrene	88	J
88-74-4	2-Nitroaniline	2200	U	193-39-5	Indeno(1,2,3-cd)Pyrene	88	J
131-11-3	Dimethyl Phthalate	440	U	53-70-3	Dibenzo(a,h)Anthracene	440	U
208-96-8	Acenaphthylene	440	U	191-24-2	Benzo(g,h,i)Perylene	44	J
				99-09-2	3-Nitroaniline	2200	U

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75656
Sample ID: GW-WB

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 11-7-87
Date Analyzed: 12-1-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): NA

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/l		CAS #		ug/l	
108-95-2	Phenol	20	U	83-32-9	Acenaphthene	20	U
111-44-4	bis(2-Chloroethyl)Ether	20	U	51-28-5	2,4-Dinitrophenol	100	U
95-57-8	2-Chlorophenol	20	U	100-02-7	4-Nitrophenol	100	U
541-73-1	1,3-Dichlorobenzene	20	U	132-64-9	Dibenzofuran	20	U
106-46-7	1,4-Dichlorobenzene	20	U	121-14-2	2,4-Dinitrotoluene	20	U
100-51-6	Benzyl Alcohol	20	U	606-20-2	2,6-Dinitrotoluene	20	U
[illegible]-50-1	1,2-Dichlorobenzene	20	U	84-66-2	Diethylphthalate	20	U
95-48-7	2-Methylphenol	20	U	7005-72-3	4-Chlorophenyl-phenylether	20	U
39638-32-9	bis(2-chloroisopropyl)Ether	20	U	86-73-7	Fluorene	20	U
106-44-5	4-Methylphenol	20	U	100-01-6	4-Nitroaniline	100	U
621-64-7	N-Nitroso-Di-n-Propylamine	20	U	534-52-1	4,6-Dinitro-2-Methylphenol	100	U
67-72-1	Hexachloroethane	20	U	86-30-6	N-Nitrosodiphenylamine(1)	20	U
98-95-3	Nitrobenzene	20	U	101-55-3	4-Bromophenyl-phenylether	20	U
78-59-1	Isophorone	20	U	118-74-1	Hexachlorobenzene	20	U
88-75-5	2-Nitrophenol	20	U	87-86-5	Pentachlorophenol	100	U
105-67-9	2,4-Dimethylphenol	20	U	85-01-8	Phenanthrene	20	U
65-85-0	Benzoic Acid	20	U	120-12-7	Anthracene	20	U
111-91-1	bis(2-Chloroethoxy)Methane	20	U	84-74-2	Di-n-Butylphthalate	130	
120-83-2	2,4-Dichlorophenol	20	U	206-44-0	Fluoranthene	20	U
120-82-1	1,2,4-Trichlorobenzene	20	U	129-00-0	Pyrene	20	U
91-20-3	Naphthalene	20	U	85-68-7	Butylbenzylphthalate	20	U
106-47-8	4-Chloroaniline	20	U	91-94-1	3,3'-Dichlorobenzidine	40	U
87-68-3	Hexachlorobutadiene	20	U	56-55-3	Benzo(a)Anthracene	20	U
59-50-7	4-Chloro-3-Methylphenol	20	U	117-81-7	bis(2-Ethylhexyl)Phthalate	110	
91-57-6	2-Methylnaphthalene	20	U	218-01-9	Chrysene	20	U
77-47-4	Hexachlorocyclopentadiene	20	U	117-84-0	Di-n-Octyl Phthalate	20	U
88-06-2	2,4,6-Trichlorophenol	20	U	205-99-2	Benzo(b)Fluoranthene	20	U
95-95-4	2,4,5-Trichlorophenol	100	U	207-08-9	Benzo(k)Fluoranthene	20	U
91-58-7	2-Chloronaphthalene	20	U	50-32-8	Benzo(a)Pyrene	20	U
88-74-4	2-Nitroaniline	100	U	193-39-5	Indeno(1,2,3-cd)Pyrene	20	U
131-11-3	Dimethyl Phthalate	20	U	53-70-3	Dibenzo(a,h)Anthracene	20	U
[illegible]-96-8	Acenaphthylene	20	U	191-24-2	Benzo(g,h,i)Perylene	20	U
				99-09-2	3-Nitroaniline	100	U

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75656
Sample ID: GW-W2

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 11-7-87
Date Analyzed: 12-1-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): NA

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/l		CAS #		ug/l	
108-95-2	Phenol	20	U	83-32-9	Acenaphthene	20	U
111-44-4	bis(2-Chloroethyl)Ether	20	U	51-28-5	2,4-Dinitrophenol	100	U
95-57-8	2-Chlorophenol	20	U	100-02-7	4-Nitrophenol	100	U
541-73-1	1,3-Dichlorobenzene	20	U	132-64-9	Dibenzofuran	20	U
106-46-7	1,4-Dichlorobenzene	20	U	121-14-2	2,4-Dinitrotoluene	20	U
100-51-6	Benzyl Alcohol	20	U	606-20-2	2,6-Dinitrotoluene	20	U
[illegible]-50-1	1,2-Dichlorobenzene	20	U	84-66-2	Diethylphthalate	20	U
95-48-7	2-Methylphenol	20	U	7005-72-3	4-Chlorophenyl-phenylether	20	U
39638-32-9	bis(2-chloroisopropyl)Ether	20	U	86-73-7	Fluorene	20	U
106-44-5	4-Methylphenol	20	U	100-01-6	4-Nitroaniline	100	U
621-64-7	N-Nitroso-Di-n-Propylamine	20	U	534-52-1	4,6-Dinitro-2-Methylphenol	100	U
67-72-1	Hexachloroethane	20	U	86-30-6	N-Nitrosodiphenylamine(1)	20	U
98-95-3	Nitrobenzene	20	U	101-55-3	4-Bromophenyl-phenlyether	20	U
78-59-1	Isophorone	20	U	118-74-1	Hexachlorobenzene	20	U
88-75-5	2-Nitrophenol	20	U	87-86-5	Pentachlorophenol	100	U
105-67-9	2,4-Dimethylphenol	20	U	85-01-8	Phenanthrene	20	U
65-85-0	Benzoic Acid	20	U	120-12-7	Anthracene	20	U
111-91-1	bis(2-Chloroethoxy)Methane	20	U	84-74-2	Di-n-Butylphthalate	100	
120-83-2	2,4-Dichlorophenol	20	U	206-44-0	Fluoranthene	20	U
120-82-1	1,2,4-Trichlorobenzene	20	U	129-00-0	Pyrene	20	U
91-20-3	Naphthalene	20	U	85-68-7	Butylbenzylphthalate	20	U
106-47-8	4-Chloroaniline	20	U	91-94-1	3,3'-Dichlorobenzidine	40	U
87-68-3	Hexachlorobutadiene	20	U	56-55-3	Benzo(a)Anthracene	20	U
59-50-7	4-Chloro-3-Methylphenol	20	U	117-81-7	bis(2-Ethylhexyl)Phthalate	50	
91-57-6	2-Methylnaphthalene	20	U	218-01-9	Chrysene	20	U
77-47-4	Hexachlorocyclopentadiene	20	U	117-84-0	Di-n-Octyl Phthalate	20	U
88-06-2	2,4,6-Trichlorophenol	20	U	205-99-2	Benzo(b)Fluoranthene	20	U
95-95-4	2,4,5-Trichlorophenol	100	U	207-08-9	Benzo(k)Fluoranthene	20	U
91-58-7	2-Chloronaphthalene	20	U	50-32-8	Benzo(a)Pyrene	20	U
88-74-4	2-Nitroaniline	100	U	193-39-5	Indeno(1,2,3-cd)Pyrene	20	U
131-11-3	Dimethyl Phthalate	20	U	53-70-3	Dibenzo(a,h)Anthracene	20	U
[illegible]6-96-8	Acenaphthylene	20	U	191-24-2	Benzo(g,h,i)Perylene	20	U
				99-09-2	3-Nitroaniline	100	U

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES
b Number: 75656
ple ID: GW-43B

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 11-7-87
Date Analyzed: 12-1-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): NA

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/l		CAS #		ug/l	
108-95-2	Phenol	20	U	83-32-9	Acenaphthene	20	U
111-44-4	bis(2-Chloroethyl)Ether	20	U	51-28-5	2,4-Dinitrophenol	100	U
95-57-8	2-Chlorophenol	20	U	100-02-7	4-Nitrophenol	100	U
541-73-1	1,3-Dichlorobenzene	20	U	132-64-9	Dibenzofuran	20	U
106-46-7	1,4-Dichlorobenzene	20	U	121-14-2	2,4-Dinitrotoluene	20	U
100-51-6	Benzyl Alcohol	20	U	606-20-2	2,6-Dinitrotoluene	20	U
-50-1	1,2-Dichlorobenzene	20	U	84-66-2	Diethylphthalate	20	U
95-48-7	2-Methylphenol	20	U	7005-72-3	4-Chlorophenyl-phenylether	20	U
39638-32-9	bis(2-chloroisopropyl)Ether	20	U	86-73-7	Fluorene	20	U
106-44-5	4-Methylphenol	20	U	100-01-6	4-Nitroaniline	100	U
621-64-7	N-Nitroso-Di-n-Propylamine	20	U	534-52-1	4,6-Dinitro-2-Methylphenol	100	U
67-72-1	Hexachloroethane	20	U	86-30-6	N-Nitrosodiphenylamine(1)	20	U
98-95-3	Nitrobenzene	20	U	101-55-3	4-Bromophenyl-phenylether	20	U
78-59-1	Isophorone	20	U	118-74-1	Hexachlorobenzene	20	U
88-75-5	2-Nitrophenol	20	U	87-86-5	Pentachlorophenol	100	U
105-67-9	2,4-Dimethylphenol	20	U	85-01-8	Phenanthrene	20	U
65-85-0	Benzoic Acid	20	U	120-12-7	Anthracene	20	U
111-91-1	bis(2-Chloroethoxy)Methane	20	U	84-74-2	Di-n-Butylphthalate	120	
120-83-2	2,4-Dichlorophenol	20	U	206-44-0	Fluoranthene	20	U
120-82-1	1,2,4-Trichlorobenzene	20	U	129-00-0	Pyrene	20	U
91-20-3	Naphthalene	20	U	85-68-7	Butylbenzylphthalate	20	U
106-47-8	4-Chloroaniline	20	U	91-94-1	3,3'-Dichlorobenzidine	40	U
87-68-3	Hexachlorobutadiene	20	U	56-55-3	Benzo(a)Anthracene	20	U
59-50-7	4-Chloro-3-Methylphenol	20	U	117-81-7	bis(2-Ethylhexyl)Phthalate	24	
91-57-6	2-Methylnaphthalene	20	U	218-01-9	Chrysene	20	U
77-47-4	Hexachlorocyclopentadiene	20	U	117-84-0	Di-n-Octyl Phthalate	20	U
88-06-2	2,4,6-Trichlorophenol	20	U	205-99-2	Benzo(b)Fluoranthene	20	U
95-95-4	2,4,5-Trichlorophenol	100	U	207-08-9	Benzo(k)Fluoranthene	20	U
91-58-7	2-Chloronaphthalene	20	U	50-32-8	Benzo(a)Pyrene	20	U
88-74-4	2-Nitroaniline	100	U	193-39-5	Indeno(1,2,3-cd)Pyrene	20	U
131-11-3	Dimethyl Phthalate	20	U	53-70-3	Dibenzo(a,h)Anthracene	20	U
208-96-8	Acenaphthylene	20	U	191-24-2	Benzo(g,h,i)Perylene	20	U
				99-09-2	3-Nitroaniline	100	U

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75656
Sample ID: GW-W4D

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 11-7-87
Date Analyzed: 12-1-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): NA

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/l		CAS #		ug/l	
108-95-2	Phenol	20	U	83-32-9	Acenaphthene	20	U
111-44-4	bis(2-Chloroethyl)Ether	20	U	51-28-5	2,4-Dinitrophenol	100	U
95-57-8	2-Chlorophenol	20	U	100-02-7	4-Nitrophenol	100	U
541-73-1	1,3-Dichlorobenzene	20	U	132-64-9	Dibenzofuran	20	U
106-46-7	1,4-Dichlorobenzene	20	U	121-14-2	2,4-Dinitrotoluene	20	U
100-51-6	Benzyl Alcohol	20	U	606-20-2	2,6-Dinitrotoluene	20	U
95-50-1	1,2-Dichlorobenzene	28		84-66-2	Diethylphthalate	20	U
95-48-7	2-Methylphenol	20	U	7005-72-3	4-Chlorophenyl-phenylether	20	U
39638-32-9	bis(2-chloroisopropyl)Ether	20	U	86-73-7	Fluorene	20	U
106-44-5	4-Methylphenol	20	U	100-01-6	4-Nitroaniline	100	U
621-64-7	N-Nitroso-Di-n-Propylamine	20	U	534-52-1	4,6-Dinitro-2-Methylphenol	100	U
67-72-1	Hexachloroethane	20	U	86-30-6	N-Nitrosodiphenylamine(1)	20	U
98-95-3	Nitrobenzene	20	U	101-55-3	4-Bromophenyl-phenylether	20	U
78-59-1	Isophorone	20	U	118-74-1	Hexachlorobenzene	20	U
88-75-5	2-Nitrophenol	20	U	87-86-5	Pentachlorophenol	100	U
105-67-9	2,4-Dimethylphenol	20	U	85-01-8	Phenanthrene	20	U
65-85-0	Benzoic Acid	20	U	120-12-7	Anthracene	20	U
111-91-1	bis(2-Chloroethoxy)Methane	20	U	84-74-2	Di-n-Butylphthalate	74	
120-83-2	2,4-Dichlorophenol	20	U	206-44-0	Fluoranthene	20	U
120-82-1	1,2,4-Trichlorobenzene	20	U	129-00-0	Pyrene	20	U
91-20-3	Naphthalene	20	U	85-68-7	Butylbenzylphthalate	20	U
106-47-8	4-Chloroaniline	20	U	91-94-1	3,3'-Dichlorobenzidine	40	U
87-68-3	Hexachlorobutadiene	20	U	56-55-3	Benzo(a)Anthracene	20	U
59-50-7	4-Chloro-3-Methylphenol	20	U	117-81-7	bis(2-Ethylhexyl)Phthalate	16	J
91-57-6	2-Methylnaphthalene	20	U	218-01-9	Chrysene	20	U
77-47-4	Hexachlorocyclopentadiene	20	U	117-84-0	Di-n-Octyl Phthalate	20	U
88-06-2	2,4,6-Trichlorophenol	20	U	205-99-2	Benzo(b)Fluoranthene	20	U
95-95-4	2,4,5-Trichlorophenol	100	U	207-08-9	Benzo(k)Fluoranthene	20	U
91-58-7	2-Chloronaphthalene	20	U	50-32-8	Benzo(a)Pyrene	20	U
88-74-4	2-Nitroaniline	100	U	193-39-5	Indeno(1,2,3-cd)Pyrene	20	U
131-11-3	Dimethyl Phthalate	20	U	53-70-3	Dibenzo(a,h)Anthracene	20	U
208-96-8	Acenaphthylene	20	U	191-24-2	Benzo(g,h,i)Perylene	20	U
				99-09-2	3-Nitroaniline	100	U

(1) Cannot be separated from diphenylamine

ient: CENTURY LABORATORIES
Job Number: 75656
Sample ID: GW-W6

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 11-7-87
Date Analyzed: 12-2-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): NA

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/l	
108-95-2	Phenol	20	U
111-44-4	bis(2-Chloroethyl)Ether	20	U
95-57-8	2-Chlorophenol	20	U
541-73-1	1,3-Dichlorobenzene	20	U
106-46-7	1,4-Dichlorobenzene	20	U
100-51-6	Benzyl Alcohol	20	U
95-50-1	1,2-Dichlorobenzene	20	U
95-48-7	2-Methylphenol	20	U
39638-32-9	bis(2-chloroisopropyl)Ether	20	U
106-44-5	4-Methylphenol	20	U
621-64-7	N-Nitroso-Di-n-Propylamine	20	U
67-72-1	Hexachloroethane	20	U
98-95-3	Nitrobenzene	20	U
78-59-1	Isophorone	20	U
88-75-5	2-Nitrophenol	20	U
105-67-9	2,4-Dimethylphenol	20	U
65-85-0	Benzoic Acid	20	U
111-91-1	bis(2-Chloroethoxy)Methane	20	U
120-83-2	2,4-Dichlorophenol	20	U
120-82-1	1,2,4-Trichlorobenzene	20	U
91-20-3	Naphthalene	20	U
106-47-8	4-Chloroaniline	20	U
87-68-3	Hexachlorobutadiene	20	U
59-50-7	4-Chloro-3-Methylphenol	20	U
91-57-6	2-Methylnaphthalene	20	U
77-47-4	Hexachlorocyclopentadiene	20	U
88-06-2	2,4,6-Trichlorophenol	20	U
95-95-4	2,4,5-Trichlorophenol	100	U
91-58-7	2-Chloronaphthalene	20	U
88-74-4	2-Nitroaniline	100	U
131-11-3	Dimethyl Phthalate	20	U
208-96-8	Acenaphthylene	20	U

CAS #		ug/l	
83-32-9	Acenaphthene	20	U
51-28-5	2,4-Dinitrophenol	100	U
100-02-7	4-Nitrophenol	100	U
132-64-9	Dibenzofuran	20	U
121-14-2	2,4-Dinitrotoluene	20	U
606-20-2	2,6-Dinitrotoluene	20	U
84-66-2	Diethylphthalate	20	U
7005-72-3	4-Chlorophenyl-phenylether	20	U
86-73-7	Fluorene	20	U
100-01-6	4-Nitroaniline	100	U
534-52-1	4,6-Dinitro-2-Methylphenol	100	U
86-30-6	N-Nitrosodiphenylamine(1)	20	U
101-55-3	4-Bromophenyl-phenylether	20	U
118-74-1	Hexachlorobenzene	20	U
87-86-5	Pentachlorophenol	100	U
85-01-8	Phenanthrene	20	U
120-12-7	Anthracene	20	U
84-74-2	Di-n-Butylphthalate	20	U
206-44-0	Fluoranthene	20	U
129-00-0	Pyrene	20	U
85-68-7	Butylbenzylphthalate	20	U
91-94-1	3,3'-Dichlorobenzidine	40	U
56-55-3	Benzo(a)Anthracene	20	U
117-81-7	bis(2-Ethylhexyl)Phthalate	160	
218-01-9	Chrysene	20	U
117-84-0	Di-n-Octyl Phthalate	20	U
205-99-2	Benzo(b)Fluoranthene	20	U
207-08-9	Benzo(k)Fluoranthene	20	U
50-32-8	Benzo(a)Pyrene	20	U
193-39-5	Indeno(1,2,3-cd)Pyrene	20	U
53-70-3	Dibenzo(a,h)Anthracene	20	U
191-24-2	Benzo(g,h,i)Perylene	20	U
99-09-2	3-Nitroaniline	100	U

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES
Job Number: 10119
Sample ID: GW-W1-2 (10119-1)

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 03-15-88
Date Analyzed: 03-18-88
Conc/Dil Factor: 1
Percent Moisture (Decanted): NA

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: Yes

CAS #		ug/l	
108-95-2	Phenol	20	U
111-44-4	bis(2-Chloroethyl)Ether	20	U
95-57-8	2-Chlorophenol	20	U
541-73-1	1,3-Dichlorobenzene	20	U
106-46-7	1,4-Dichlorobenzene	20	U
100-51-6	Benzyl Alcohol	20	U
95-50-1	1,2-Dichlorobenzene	20	U
95-48-7	2-Methylphenol	20	U
39638-32-9	bis(2-chloroisopropyl)Ether	20	U
106-44-5	4-Methylphenol	20	U
621-64-7	N-Nitroso-Di-n-Propylamine	20	U
67-72-1	Hexachloroethane	20	U
98-95-3	Nitrobenzene	20	U
78-59-1	Isophorone	20	U
88-75-5	2-Nitrophenol	20	U
105-67-9	2,4-Dimethylphenol	20	U
65-85-0	Benzoic Acid	20	U
111-91-1	bis(2-Chloroethoxy)Methane	20	U
120-83-2	2,4-Dichlorophenol	20	U
120-82-1	1,2,4-Trichlorobenzene	20	U
91-20-3	Naphthalene	20	U
106-47-8	4-Chloroaniline	20	U
87-68-3	Hexachlorobutadiene	20	U
59-50-7	4-Chloro-3-Methylphenol	20	U
91-57-6	2-Methylnaphthalene	20	U
77-47-4	Hexachlorocyclopentadiene	20	U
88-06-2	2,4,6-Trichlorophenol	20	U
95-95-4	2,4,5-Trichlorophenol	100	U
91-58-7	2-Chloronaphthalene	20	U
88-74-4	2-Nitroaniline	100	U
131-11-3	Dimethyl Phthalate	20	U
208-96-8	Acenaphthylene	20	U

CAS #		ug/l	
83-32-9	Acenaphthene	20	U
51-28-5	2,4-Dinitrophenol	100	U
100-02-7	4-Nitrophenol	100	U
132-64-9	Dibenzofuran	20	U
121-14-2	2,4-Dinitrotoluene	20	U
606-20-2	2,6-Dinitrotoluene	20	U
84-66-2	Diethylphthalate	20	U
7005-72-3	4-Chlorophenyl-phenylether	20	U
86-73-7	Fluorene	20	U
100-01-6	4-Nitroaniline	100	U
534-52-1	4,6-Dinitro-2-Methylphenol	100	U
86-30-6	N-Nitrosodiphenylamine(1)	20	U
101-55-3	4-Bromophenyl-phenlyether	20	U
118-74-1	Hexachlorobenzene	20	U
87-86-5	Pentachlorophenol	100	U
85-01-8	Phenanthrene	20	U
120-12-7	Anthracene	20	U
84-74-2	Di-n-Butylphthalate	2	J
206-44-0	Fluoranthene	20	U
129-00-0	Pyrene	20	U
85-68-7	Butylbenzylphthalate	20	U
91-94-1	3,3'-Dichlorobenzidine	40	U
56-55-3	Benzo(a)Anthracene	20	U
117-81-7	bis(2-Ethylhexyl)Phthalate	20	
218-01-9	Chrysene	20	U
117-84-0	Di-n-Octyl Phthalate	20	U
205-99-2	Benzo(b)Fluoranthene	20	U
207-08-9	Benzo(k)Fluoranthene	20	U
50-32-8	Benzo(a)Pyrene	20	U
193-39-5	Indeno(1,2,3-cd)Pyrene	20	U
53-70-3	Dibenzo(a,h)Anthracene	20	U
191-24-2	Benzo(g,h,i)Perylene	20	U
99-09-2	3-Nitroaniline	100	U

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES
Job Number: 10115
Sample ID: ~~GW-W3A~~-2 (10115-2)

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 03-15-88
Date Analyzed: 03-23-88
Conc/Dil Factor: 1
Percent Moisture (Decanted): NA

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: Yes

CAS #		ug/l	
108-95-2	Phenol	20	U
111-44-4	bis(2-Chloroethyl)Ether	20	U
95-57-8	2-Chlorophenol	20	U
541-73-1	1,3-Dichlorobenzene	20	U
106-46-7	1,4-Dichlorobenzene	20	U
100-51-6	Benzyl Alcohol	20	U
95-50-1	1,2-Dichlorobenzene	20	U
95-48-7	2-Methylphenol	20	U
39638-32-9	bis(2-chloroisopropyl)Ether	20	U
106-44-5	4-Methylphenol	20	U
621-64-7	N-Nitroso-Di-n-Propylamine	20	U
67-72-1	Hexachloroethane	20	U
98-95-3	Nitrobenzene	20	U
78-59-1	Isophorone	20	U
88-75-5	2-Nitrophenol	20	U
105-67-9	2,4-Dimethylphenol	20	U
65-85-0	Benzoic Acid	20	U
111-91-1	bis(2-Chloroethoxy)Methane	20	U
120-83-2	2,4-Dichlorophenol	20	U
120-82-1	1,2,4-Trichlorobenzene	20	U
91-20-3	Naphthalene	2	J
106-47-8	4-Chloroaniline	20	U
87-68-3	Hexachlorobutadiene	20	U
59-50-7	4-Chloro-3-Methylphenol	20	U
91-57-6	2-Methylnaphthalene	20	U
77-47-4	Hexachlorocyclopentadiene	20	U
88-06-2	2,4,6-Trichlorophenol	20	U
95-95-4	2,4,5-Trichlorophenol	100	U
91-58-7	2-Chloronaphthalene	20	U
88-74-4	2-Nitroaniline	100	U
131-11-3	Dimethyl Phthalate	20	U
208-96-8	Acenaphthylene	20	U

CAS #		ug/l	
83-32-9	Acenaphthene	20	U
51-28-5	2,4-Dinitrophenol	100	U
100-02-7	4-Nitrophenol	100	U
132-64-9	Dibenzofuran	20	U
121-14-2	2,4-Dinitrotoluene	20	U
606-20-2	2,6-Dinitrotoluene	20	U
84-66-2	Diethylphthalate	20	U
7005-72-3	4-Chlorophenyl-phenylether	20	U
86-73-7	Fluorene	20	U
100-01-6	4-Nitroaniline	100	U
534-52-1	4,6-Dinitro-2-Methylphenol	100	U
86-30-6	N-Nitrosodiphenylamine(1)	20	U
101-55-3	4-Bromophenyl-phenlyether	20	U
118-74-1	Hexachlorobenzene	20	U
87-86-5	Pentachlorophenol	100	U
85-01-8	Phenanthrene	20	U
120-12-7	Anthracene	20	U
84-74-2	Di-n-Butylphthalate	4	J
206-44-0	Fluoranthene	20	U
129-00-0	Pyrene	20	U
85-68-7	Butylbenzylphthalate	20	U
91-94-1	3,3'-Dichlorobenzidine	40	U
56-55-3	Benzo(a)Anthracene	20	U
117-81-7	bis(2-Ethylhexyl)Phthalate	30	
218-01-9	Chrysene	20	U
117-84-0	Di-n-Octyl Phthalate	20	U
205-99-2	Benzo(b)Fluoranthene	20	U
207-08-9	Benzo(k)Fluoranthene	20	U
50-32-8	Benzo(a)Pyrene	20	U
193-39-5	Indeno(1,2,3-cd)Pyrene	20	U
53-70-3	Dibenzo(a,h)Anthracene	20	U
191-24-2	Benzo(g,h,i)Perylene	20	U
99-09-2	3-Nitroaniline	100	U

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES
Job Number: 10115
Sample ID: GW-W3B-2 (10115-1)

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 03-15-88
Date Analyzed: 03-23-88
Conc/Dil Factor: 1
Percent Moisture (Decanted): NA

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: Yes

CAS #		ug/l		CAS #		ug/l	
108-95-2	Phenol	20	U	83-32-9	Acenaphthene	20	U
111-44-4	bis(2-Chloroethyl)Ether	20	U	51-28-5	2,4-Dinitrophenol	100	U
95-57-8	2-Chlorophenol	20	U	100-02-7	4-Nitrophenol	100	U
541-73-1	1,3-Dichlorobenzene	20	U	132-64-9	Dibenzofuran	20	U
106-46-7	1,4-Dichlorobenzene	20	U	121-14-2	2,4-Dinitrotoluene	20	U
100-51-6	Benzyl Alcohol	20	U	606-20-2	2,6-Dinitrotoluene	20	U
95-50-1	1,2-Dichlorobenzene	20	U	84-66-2	Diethylphthalate	20	U
95-48-7	2-Methylphenol	20	U	7005-72-3	4-Chlorophenyl-phenylether	20	U
39638-32-9	bis(2-chloroisopropyl)Ether	20	U	86-73-7	Fluorene	20	U
106-44-5	4-Methylphenol	20	U	100-01-6	4-Nitroaniline	100	U
621-64-7	N-Nitroso-Di-n-Propylamine	20	U	534-52-1	4,6-Dinitro-2-Methylphenol	100	U
67-72-1	Hexachloroethane	20	U	86-30-6	N-Nitrosodiphenylamine(1)	20	U
98-95-3	Nitrobenzene	20	U	101-55-3	4-Bromophenyl-phenlyether	20	U
78-59-1	Isophorone	20	U	118-74-1	Hexachlorobenzene	20	U
88-75-5	2-Nitrophenol	20	U	87-86-5	Pentachlorophenol	100	U
105-67-9	2,4-Dimethylphenol	20	U	85-01-8	Phenanthrene	20	U
65-85-0	Benzoic Acid	20	U	120-12-7	Anthracene	20	U
111-91-1	bis(2-Chloroethoxy)Methane	20	U	84-74-2	Di-n-Butylphthalate	2	J
120-83-2	2,4-Dichlorophenol	20	U	206-44-0	Fluoranthene	20	U
120-82-1	1,2,4-Trichlorobenzene	20	U	129-00-0	Pyrene	20	U
91-20-3	Naphthalene	20	U	85-68-7	Butylbenzylphthalate	20	U
106-47-8	4-Chloroaniline	20	U	91-94-1	3,3'-Dichlorobenzidine	40	U
87-68-3	Hexachlorobutadiene	20	U	56-55-3	Benzo(a)Anthracene	20	U
59-50-7	4-Chloro-3-Methylphenol	20	U	117-81-7	bis(2-Ethylhexyl)Phthalate	30	
91-57-6	2-Methylnaphthalene	20	U	218-01-9	Chrysene	20	U
77-47-4	Hexachlorocyclopentadiene	20	U	117-84-0	Di-n-Octyl Phthalate	20	U
88-06-2	2,4,6-Trichlorophenol	20	U	205-99-2	Benzo(b)Fluoranthene	20	U
95-95-4	2,4,5-Trichlorophenol	100	U	207-08-9	Benzo(k)Fluoranthene	20	U
91-58-7	2-Chloronaphthalene	20	U	50-32-8	Benzo(a)Pyrene	20	U
88-74-4	2-Nitroaniline	100	U	193-39-5	Indeno(1,2,3-cd)Pyrene	20	U
131-11-3	Dimethyl Phthalate	20	U	53-70-3	Dibenzo(a,h)Anthracene	20	U
208-96-8	Acenaphthylene	20	U	191-24-2	Benzo(g,h,i)Perylene	20	U
				99-09-2	3-Nitroaniline	100	U

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES
Job Number: 10115
Sample ID: GW-W5-2 (10115-3)

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 03-15-88
Date Analyzed: 03-23-88
Conc/Dil Factor: 1
Percent Moisture (Decanted): NA

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: Yes

CAS #		ug/l	
108-95-2	Phenol	20	U
111-44-4	bis(2-Chloroethyl)Ether	20	U
95-57-8	2-Chlorophenol	20	U
541-73-1	1,3-Dichlorobenzene	20	U
106-46-7	1,4-Dichlorobenzene	20	U
100-51-6	Benzyl Alcohol	20	U
95-50-1	1,2-Dichlorobenzene	20	U
95-48-7	2-Methylphenol	20	U
39638-32-9	bis(2-chloroisopropyl)Ether	20	U
106-44-5	4-Methylphenol	20	U
621-64-7	N-Nitroso-Di-n-Propylamine	20	U
67-72-1	Hexachloroethane	20	U
98-95-3	Nitrobenzene	20	U
78-59-1	Isophorone	20	U
88-75-5	2-Nitrophenol	20	U
105-67-9	2,4-Dimethylphenol	20	U
65-85-0	Benzoic Acid	20	U
111-91-1	bis(2-Chloroethoxy)Methane	20	U
120-83-2	2,4-Dichlorophenol	20	U
120-82-1	1,2,4-Trichlorobenzene	20	U
91-20-3	Naphthalene	20	U
106-47-8	4-Chloroaniline	20	U
87-68-3	Hexachlorobutadiene	20	U
59-50-7	4-Chloro-3-Methylphenol	20	U
91-57-6	2-Methylnaphthalene	20	U
77-47-4	Hexachlorocyclopentadiene	20	U
88-06-2	2,4,6-Trichlorophenol	20	U
95-95-4	2,4,5-Trichlorophenol	100	U
91-58-7	2-Chloronaphthalene	20	U
88-74-4	2-Nitroaniline	100	U
131-11-3	Dimethyl Phthalate	20	U
208-96-8	Acenaphthylene	20	U

CAS #		ug/l	
83-32-9	Acenaphthene	20	U
51-28-5	2,4-Dinitrophenol	100	U
100-02-7	4-Nitrophenol	100	U
132-64-9	Dibenzofuran	20	U
121-14-2	2,4-Dinitrotoluene	20	U
606-20-2	2,6-Dinitrotoluene	20	U
84-66-2	Diethylphthalate	2	J
7005-72-3	4-Chlorophenyl-phenylether	20	U
86-73-7	Fluorene	20	U
100-01-6	4-Nitroaniline	100	U
534-52-1	4,6-Dinitro-2-Methylphenol	100	U
86-30-6	N-Nitrosodiphenylamine(1)	20	U
101-55-3	4-Bromophenyl-phenlyether	20	U
118-74-1	Hexachlorobenzene	20	U
87-86-5	Pentachlorophenol	100	U
85-01-8	Phenanthrene	20	U
120-12-7	Anthracene	20	U
84-74-2	Di-n-Butylphthalate	2	J
206-44-0	Fluoranthene	20	U
129-00-0	Pyrene	20	U
85-68-7	Butylbenzylphthalate	20	U
91-94-1	3,3'-Dichlorobenzidine	40	U
56-55-3	Benzo(a)Anthracene	20	U
117-81-7	bis(2-Ethylhexyl)Phthalate	22	
218-01-9	Chrysene	20	U
117-84-0	Di-n-Octyl Phthalate	20	U
205-99-2	Benzo(b)Fluoranthene	20	U
207-08-9	Benzo(k)Fluoranthene	20	U
50-32-8	Benzo(a)Pyrene	20	U
193-39-5	Indeno(1,2,3-cd)Pyrene	20	U
53-70-3	Dibenzo(a,h)Anthracene	20	U
191-24-2	Benzo(g,h,i)Perylene	20	U
99-09-2	3-Nitroaniline	100	U

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75644
Sample ID: SW-A1

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 11-5-87
Date Analyzed: 11-15-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): NA

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/l	
108-95-2	Phenol	20	U
111-44-4	bis(2-Chloroethyl)Ether	20	U
95-57-8	2-Chlorophenol	20	U
541-73-1	1,3-Dichlorobenzene	20	U
106-46-7	1,4-Dichlorobenzene	20	U
100-51-6	Benzyl Alcohol	20	U
95-50-1	1,2-Dichlorobenzene	20	U
95-48-7	2-Methylphenol	20	U
39638-32-9	bis(2-chloroisopropyl)Ether	20	U
106-44-5	4-Methylphenol	20	U
621-64-7	N-Nitroso-Di-n-Propylamine	20	U
67-72-1	Hexachloroethane	20	U
98-95-3	Nitrobenzene	20	U
78-59-1	Isophorone	20	U
88-75-5	2-Nitrophenol	20	U
105-67-9	2,4-Dimethylphenol	20	U
65-85-0	Benzoic Acid	20	U
111-91-1	bis(2-Chloroethoxy)Methane	20	U
120-83-2	2,4-Dichlorophenol	20	U
120-82-1	1,2,4-Trichlorobenzene	20	U
91-20-3	Naphthalene	20	U
106-47-8	4-Chloroaniline	20	U
87-68-3	Hexachlorobutadiene	20	U
59-50-7	4-Chloro-3-Methylphenol	20	U
91-57-6	2-Methylnaphthalene	20	U
77-47-4	Hexachlorocyclopentadiene	20	U
88-06-2	2,4,6-Trichlorophenol	20	U
95-95-4	2,4,5-Trichlorophenol	100	U
91-58-7	2-Chloronaphthalene	20	U
88-74-4	2-Nitroaniline	100	U
131-11-3	Dimethyl Phthalate	20	U
208-96-8	Acenaphthylene	20	U

CAS #		ug/l	
83-32-9	Acenaphthene	20	U
51-28-5	2,4-Dinitrophenol	100	U
100-02-7	4-Nitrophenol	100	U
132-64-9	Dibenzofuran	20	U
121-14-2	2,4-Dinitrotoluene	20	U
606-20-2	2,6-Dinitrotoluene	20	U
84-66-2	Diethylphthalate	20	U
7005-72-3	4-Chlorophenyl-phenylether	20	U
86-73-7	Fluorene	20	U
100-01-6	4-Nitroaniline	100	U
534-52-1	4,6-Dinitro-2-Methylphenol	100	U
86-30-6	N-Nitrosodiphenylamine(1)	20	U
101-55-3	4-Bromophenyl-phenlyether	20	U
118-74-1	Hexachlorobenzene	20	U
87-86-5	Pentachlorophenol	100	U
85-01-8	Phenanthrene	20	U
120-12-7	Anthracene	20	U
84-74-2	Di-n-Butylphthalate	20	U
206-44-0	Fluoranthene	20	U
129-00-0	Pyrene	20	U
85-68-7	Butylbenzylphthalate	20	U
91-94-1	3,3'-Dichlorobenzidine	40	U
56-55-3	Benzo(a)Anthracene	20	U
117-81-7	bis(2-Ethylhexyl)Phthalate	420	
218-01-9	Chrysene	20	U
117-84-0	Di-n-Octyl Phthalate	20	U
205-99-2	Benzo(b)Fluoranthene	20	U
207-08-9	Benzo(k)Fluoranthene	20	U
50-32-8	Benzo(a)Pyrene	20	U
193-39-5	Indeno(1,2,3-cd)Pyrene	20	U
53-70-3	Dibenzo(a,h)Anthracene	20	U
191-24-2	Benzo(g,h,i)Perylene	20	U
99-09-2	3-Nitroaniline	100	U

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75644
Sample ID: SW-D-1

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 11-5-87
Date Analyzed: 11-15-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): NA

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/l		CAS #		ug/l	
108-95-2	Phenol	20	U	83-32-9	Acenaphthene	20	U
111-44-4	bis(2-Chloroethyl)Ether	20	U	51-28-5	2,4-Dinitrophenol	100	U
95-57-8	2-Chlorophenol	20	U	100-02-7	4-Nitrophenol	100	U
541-73-1	1,3-Dichlorobenzene	20	U	132-64-9	Dibenzofuran	20	U
106-46-7	1,4-Dichlorobenzene	20	U	121-14-2	2,4-Dinitrotoluene	20	U
100-51-6	Benzyl Alcohol	20	U	606-20-2	2,6-Dinitrotoluene	20	U
95-50-1	1,2-Dichlorobenzene	20	U	84-66-2	Diethylphthalate	20	U
95-48-7	2-Methylphenol	20	U	7005-72-3	4-Chlorophenyl-phenylether	20	U
39638-32-9	bis(2-chloroisopropyl)Ether	20	U	86-73-7	Fluorene	20	U
106-44-5	4-Methylphenol	20	U	100-01-6	4-Nitroaniline	100	U
621-64-7	N-Nitroso-Di-n-Propylamine	20	U	534-52-1	4,6-Dinitro-2-Methylphenol	100	U
67-72-1	Hexachloroethane	20	U	86-30-6	N-Nitrosodiphenylamine(1)	20	U
98-95-3	Nitrobenzene	20	U	101-55-3	4-Bromophenyl-phenlyether	20	U
78-59-1	Isophorone	20	U	118-74-1	Hexachlorobenzene	20	U
88-75-5	2-Nitrophenol	20	U	87-86-5	Pentachlorophenol	100	U
105-67-9	2,4-Dimethylphenol	20	U	85-01-8	Phenanthrene	20	U
65-85-0	Benzoic Acid	20	U	120-12-7	Anthracene	20	U
111-91-1	bis(2-Chloroethoxy)Methane	20	U	84-74-2	Di-n-Butylphthalate	20	U
120-83-2	2,4-Dichlorophenol	20	U	206-44-0	Fluoranthene	20	U
120-82-1	1,2,4-Trichlorobenzene	20	U	129-00-0	Pyrene	20	U
91-20-3	Naphthalene	20	U	85-68-7	Butylbenzylphthalate	20	U
106-47-8	4-Chloroaniline	20	U	91-94-1	3,3'-Dichlorobenzidine	40	U
87-68-3	Hexachlorobutadiene	20	U	56-55-3	Benzo(a)Anthracene	20	U
59-50-7	4-Chloro-3-Methylphenol	20	U	117-81-7	bis(2-Ethylhexyl)Phthalate	94	
91-57-6	2-Methylnaphthalene	20	U	218-01-9	Chrysene	20	U
77-47-4	Hexachlorocyclopentadiene	20	U	117-84-0	Di-n-Octyl Phthalate	20	U
88-06-2	2,4,6-Trichlorophenol	20	U	205-99-2	Benzo(b)Fluoranthene	20	U
95-95-4	2,4,5-Trichlorophenol	100	U	207-08-9	Benzo(k)Fluoranthene	20	U
91-58-7	2-Chloronaphthalene	20	U	50-32-8	Benzo(a)Pyrene	20	U
88-74-4	2-Nitroaniline	100	U	193-39-5	Indeno(1,2,3-cd)Pyrene	20	U
131-11-3	Dimethyl Phthalate	20	U	53-70-3	Dibenzo(a,h)Anthracene	20	U
208-96-8	Acenaphthylene	20	U	191-24-2	Benzo(g,h,i)Perylene	20	U
				99-09-2	3-Nitroaniline	100	U

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75644
Sample ID: SD-E2

United States Testing Company, Inc.
Organics Analysis Data Sheet

Semivolatile Compounds

Concentration: LOW
Date Extracted/Prepared: 11-5-87
Date Analyzed: 11-18-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 23

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
108-95-2	Phenol	430	U
111-44-4	bis(2-Chloroethyl)Ether	430	U
95-57-8	2-Chlorophenol	430	U
541-73-1	1,3-Dichlorobenzene	430	U
106-46-7	1,4-Dichlorobenzene	430	U
100-51-6	Benzyl Alcohol	430	U
95-50-1	1,2-Dichlorobenzene	430	U
95-48-7	2-Methylphenol	430	U
39638-32-9	bis(2-chloroisopropyl)Ether	430	U
106-44-5	4-Methylphenol	430	U
621-64-7	N-Nitroso-Di-n-Propylamine	430	U
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
65-85-0	Benzoic Acid	430	U
111-91-1	bis(2-Chloroethoxy)Methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
120-82-1	1,2,4-Trichlorobenzene	430	U
91-20-3	Naphthalene	170	J
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
59-50-7	4-Chloro-3-Methylphenol	430	U
91-57-6	2-Methylnaphthalene	87	J
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	2200	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	2200	U
131-11-3	Dimethyl Phthalate	430	U
208-96-8	Acenaphthylene	43	J

CAS#		ug/kg	
83-32-9	Acenaphthene	430	U
51-28-5	2,4-Dinitrophenol	2200	U
100-02-7	4-Nitrophenol	2200	U
132-64-9	Dibenzofuran	130	J
121-14-2	2,4-Dinitrotoluene	430	U
606-20-2	2,6-Dinitrotoluene	430	U
84-66-2	Diethylphthalate	43	J
7005-72-3	4-Chlorophenyl-phenylether	430	U
86-73-7	Fluorene	170	J
100-01-6	4-Nitroaniline	2200	U
534-52-1	4,6-Dinitro-2-Methylphenol	2200	U
86-30-6	N-Nitrosodiphenylamine(1)	430	U
101-55-3	4-Bromophenyl-phenlyether	430	U
118-74-1	Hexachlorobenzene	430	U
87-86-5	Pentachlorophenol	2200	U
85-01-8	Phenanthrene	1400	
120-12-7	Anthracene	350	J
84-74-2	Di-n-Butylphthalate	260	J
206-44-0	Fluoranthene	2000	
129-00-0	Pyrene	1100	
85-68-7	Butylbenzylphthalate	87	J
91-94-1	3,3'-Dichlorobenzidine	870	U
56-55-3	Benzo(a)Anthracene	780	
117-81-7	bis(2-Ethylhexyl)Phthalate	1100	
218-01-9	Chrysene	780	
117-84-0	Di-n-Octyl Phthalate	430	U
205-99-2	Benzo(b)Fluoranthene	670	
207-08-9	Benzo(k)Fluoranthene	430	U
50-32-8	Benzo(a)Pyrene	650	
193-39-5	Indeno(1,2,3-cd)Pyrene	130	J
53-70-3	Dibenzo(a,h)Anthracene	130	J
191-24-2	Benzo(g,h,i)Perylene	430	U
99-09-2	3-Nitroaniline	2200	U

(1) Cannot be separated from diphenylamine

Client: CENTURY LABORATORIES
Job Number: 75598
Sample ID: S-B-2-1

Organics Analysis Data Sheet

Pesticide/PCBs

Concentration: Low
Date Extracted/Prepared: 10-20-87
Date Analyzed: 11-7-87
Conc/Dil Factor: 10
Percent Moisture (Decanted): 9

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
319-84-6	Alpha-BHC	37	U
319-85-7	Beta-BHC	37	U
319-86-8	Delta-BHC	37	U
58-89-9	Gamma-BHC (Lindane)	37	U
76-44-8	Heptachlor	37	U
309-00-2	Aldrin	37	U
1024-57-3	Heptachlor Epoxide	37	U
959-98-8	Endosulfan I	37	U
60-57-1	Dieldrin	73	U
72-55-9	4,4'-DDE	73	U
72-20-8	Endrin	73	U
33213-65-9	Endosulfan II	73	U
72-54-8	4,4'-DDD	73	U
1031-07-8	Endosulfan Sulfate	73	U
50-29-3	4,4'-DDT	73	U
72-43-5	Methoxychlor	370	U
53494-70-5	Endrin Ketone	73	U
57-74-9	Chlordane	370	U
8001-35-2	Toxaphene	370	U
12674-11-2	Aroclor-1016	370	U
11104-28-2	Aroclor-1221	370	U
11141-16-5	Aroclor-1232	370	U
53469-21-9	Aroclor-1242	370	U
12672-29-6	Aroclor-1248	370	U
11097-69-1	Aroclor-1254	730	U
11096-82-5	Aroclor-1260	730	U

Vi = Volume of extract injected (ul)
Vs = Volume of water extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs: or Ws: 30 Vt: 20 Vi: 4

Client: CENTURY LABORATORIES
Job Number: 75598
Sample ID: S-B-2-6

Organics Analysis Data Sheet

Pesticide/PCBs

Concentration: LOW
Date Extracted/Prepared: 10-20-87
Date Analyzed: 11-7-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 14

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
319-84-6	Alpha-BHC	3.9	U
319-85-7	Beta-BHC	3.9	U
319-86-8	Delta-BHC	3.9	U
58-89-9	Gamma-BHC (Lindane)	.78	J
76-44-8	Heptachlor	8.5	
309-00-2	Aldrin	3.9	U
1024-57-3	Heptachlor Epoxide	3.9	U
959-98-8	Endosulfan I	3.9	U
60-57-1	Dieldrin	7.8	U
72-55-9	4,4'-DDE	7.8	U
72-20-8	Endrin	7.8	U
33213-65-9	Endosulfan II	7.8	U
72-54-8	4,4'-DDD	7.8	U
1031-07-8	Endosulfan Sulfate	7.8	U
50-29-3	4,4'-DDT	7.8	U
72-43-5	Methoxychlor	39	U
53494-70-5	Endrin Ketone	7.8	U
57-74-9	Chlordane	39	U
8001-35-2	Toxaphene	39	U
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	78	J
11096-82-5	Aroclor-1260	78	U

Vi = Volume of extract injected (ul)
Vs = Volume of water extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs: or Ws: 30 Vt: 20 Vi: 4

Client: CENTURY LABORATORIES
Job Number: 75598
Sample ID: S-B-2-8

Organics Analysis Data Sheet

Pesticide/PCBs

Concentration: Low
Date Extracted/Prepared: 10-20-87
Date Analyzed: 11-7-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 10

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
319-84-6	Alpha-BHC	3.7	U
319-85-7	Beta-BHC	3.7	U
319-86-8	Delta-BHC	3.7	U
58-89-9	Gamma-BHC (Lindane)	3.7	U
76-44-8	Heptachlor	3.7	U
309-00-2	Aldrin	3.7	U
1024-57-3	Heptachlor Epoxide	3.7	U
959-98-8	Endosulfan I	3.7	U
60-57-1	Dieldrin	7.4	U
72-55-9	4,4'-DDE	7.4	U
72-20-8	Endrin	7.4	U
33213-65-9	Endosulfan II	7.4	U
72-54-8	4,4'-DDD	7.4	U
1031-07-8	Endosulfan Sulfate	7.4	U
50-29-3	4,4'-DDT	7.4	U
72-43-5	Methoxychlor	37	U
53494-70-5	Endrin Ketone	7.4	U
57-74-9	Chlordane	37	U
8001-35-2	Toxaphene	37	U
12674-11-2	Aroclor-1016	37	U
11104-28-2	Aroclor-1221	37	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	74	U
11096-82-5	Aroclor-1260	74	U

Vi = Volume of extract injected (ul)
Vs = Volume of water extracted (ml)
ws = weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs: or ws: 30 Vt: 20 Vi: 4

Client: CENTURY LABORATORIES
Job Number: 75621
Sample ID: S-W-38-2

Organics Analysis Data Sheet

Pesticide/PCBs

Concentration: Low
Date Extracted/Prepared: 10-31-87
Date Analyzed: 11-8-87
Conc/Dil Factor: 5
Percent Moisture (Decanted): 15

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
319-84-6	Alpha-BHC	3.9	U
319-85-7	Beta-BHC	3.9	U
319-86-8	Delta-BHC	3.9	U
58-89-9	Gamma-BHC (Lindane)	3.9	U
76-44-8	Heptachlor	3.9	U
309-00-2	Aldrin	3.9	U
1024-57-3	Heptachlor Epoxide	3.9	U
959-98-8	Endosulfan I	3.9	U
60-57-1	Dieldrin	7.8	U
72-55-9	4,4'-DDE	7.8	U
72-20-8	Endrin	7.8	U
33213-65-9	Endosulfan II	7.8	U
72-54-8	4,4'-DDD	7.8	U
1031-07-8	Endosulfan Sulfate	7.8	U
50-29-3	4,4'-DDT	7.8	U
72-43-5	Methoxychlor	39	U
53494-70-5	Endrin Ketone	7.8	U
57-74-9	Chlordane	39	U
8001-35-2	Toxaphene	39	U
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	78	U
11096-82-5	Aroclor-1260	78	U

Vi = Volume of extract injected (ul)
Vs = Volume of water extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs: or Ws: 30 Vt: 20 Vi: 4

Client: CENTURY LABORATORIES
Job Number: 75621
Sample ID: S-W-3B-39

Organics Analysis Data Sheet

Pesticide/PCBs

Concentration: Low
Date Extracted/Prepared: 10-31-87
Date Analyzed: 11-9-87
Conc/Dil Factor: 1000
Percent Moisture (Decanted): 17

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
319-84-6	Alpha-BHC	4000	U
319-85-7	Beta-BHC	4000	U
319-86-8	Delta-BHC	4000	U
58-89-9	Gamma-BHC (Lindane)	4000	U
76-44-8	Heptachlor	4000	U
309-00-2	Aldrin	4000	U
1024-57-3	Heptachlor Epoxide	4000	U
959-98-8	Endosulfan I	4000	U
60-57-1	Dieldrin	8000	U
72-55-9	4,4'-DDE	8000	U
72-20-8	Endrin	8000	U
33213-65-9	Endosulfan II	8000	U
72-54-8	4,4'-DDD	8000	U
1031-07-8	Endosulfan Sulfate	8000	U
50-29-3	4,4'-DDT	8000	U
72-43-5	Methoxychlor	40000	U
53494-70-5	Endrin Ketone	8000	U
57-74-9	Chlordane	40000	U
8001-35-2	Toxaphene	40000	U
12674-11-2	Aroclor-1016	40000	U
11104-28-2	Aroclor-1221	40000	U
11141-16-5	Aroclor-1232	40000	U
53469-21-9	Aroclor-1242	40000	U
12672-29-6	Aroclor-1248	40000	U
11097-69-1	Aroclor-1254	80000	U
11096-82-5	Aroclor-1260	80000	U

Vi = Volume of extract injected (ul)
Vs = Volume of water extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs: or Ws: 30 Vt: 20 Vi: 4

Client: CENTURY LABORATORIES
Job Number: 75621
Sample ID: S-W-3B-5

Organics Analysis Data Sheet

Pesticide/PCBs

Concentration: Low
Date Extracted/Prepared: 10-31-87
Date Analyzed: 11-6-87
Conc/Dil Factor: 100
Percent Moisture (Decanted): 9

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
319-84-6	Alpha-BHC	370	U
319-85-7	Beta-BHC	370	U
319-86-8	Delta-BHC	370	U
58-89-9	Gamma-BHC (Lindane)	370	U
76-44-8	Heptachlor	370	U
309-00-2	Aldrin	370	U
1024-57-3	Heptachlor Epoxide	370	U
959-98-8	Endosulfan I	370	U
60-57-1	Dieldrin	730	U
72-55-9	4,4'-DDE	730	U
72-20-8	Endrin	730	U
33213-65-9	Endosulfan II	730	U
72-54-8	4,4'-DDD	730	U
1031-07-8	Endosulfan Sulfate	730	U
50-29-3	4,4'-DDT	730	U
72-43-5	Methoxychlor	3700	U
53494-70-5	Endrin Ketone	730	U
57-74-9	Chlordane	3700	U
8001-35-2	Toxaphene	3700	U
12674-11-2	Aroclor-1016	3700	U
11104-28-2	Aroclor-1221	3700	U
11141-16-5	Aroclor-1232	3700	U
53469-21-9	Aroclor-1242	3700	U
12672-29-6	Aroclor-1248	3700	U
11097-69-1	Aroclor-1254	7300	U
11096-82-5	Aroclor-1260	7300	U

Vi = Volume of extract injected (ul)
Vs = Volume of water extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs: or Ws: 30 Vt: 20 Vi: 4

Client: CENTURY LABORATORIES
Job Number: 75632
Sample ID: S-W-3B-7

Organics Analysis Data Sheet

Pesticide/PCBs

Concentration: Low
Date Extracted/Prepared: 11-1-87
Date Analyzed: 11-17-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 16

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
319-84-6	Alpha-BHC	4	U
319-85-7	Beta-BHC	2.4	J
319-86-8	Delta-BHC	4	U
58-89-9	Gamma-BHC (Lindane)	4	U
76-44-8	Heptachlor	4	U
309-00-2	Aldrin	4	U
1024-57-3	Heptachlor Epoxide	4	U
959-98-8	Endosulfan I	4	U
60-57-1	Dieldrin	7.9	U
72-55-9	4,4'-DDE	7.9	U
72-20-8	Endrin	7.9	U
33213-65-9	Endosulfan II	7.9	U
72-54-8	4,4'-DDD	7.9	U
1031-07-8	Endosulfan Sulfate	7.9	U
50-29-3	4,4'-DDT	7.9	U
72-43-5	Methoxychlor	40	U
53494-70-5	Endrin Ketone	7.9	U
57-74-9	Chlordane	40	U
8001-35-2	Toxaphene	40	U
12674-11-2	Aroclor-1016	40	U
11104-28-2	Aroclor-1221	40	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	40	U
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	79	U
11096-82-5	Aroclor-1260	79	U

Vi = Volume of extract injected (ul)
Vs = Volume of water extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs: or Ws: 30 Vt: 20 Vi: 4

Client: CENTURY LABORATORIES
Job Number: 75632
Sample ID: S-W-3B-9

Organics Analysis Data Sheet

Pesticide/PCBs

Concentration: Low
Date Extracted/Prepared: 11-1-87
Date Analyzed: 11-17-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 16

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
319-84-6	Alpha-BHC	4	U
319-85-7	Beta-BHC	15	
319-86-8	Delta-BHC	4	U
58-89-9	Gamma-BHC (Lindane)	4	U
76-44-8	Heptachlor	4	U
309-00-2	Aldrin	4	U
1024-57-3	Heptachlor Epoxide	4	U
959-98-8	Endosulfan I	4	U
60-57-1	Dieldrin	7.9	U
72-55-9	4,4'-DDE	7.9	U
72-20-8	Endrin	7.9	U
33213-65-9	Endosulfan II	7.9	U
72-54-8	4,4'-DDD	7.9	U
1031-07-8	Endosulfan Sulfate	7.9	U
50-29-3	4,4'-DDT	7.9	U
72-43-5	Methoxychlor	40	U
53494-70-5	Endrin Ketone	7.9	U
57-74-9	Chlordane	40	U
8001-35-2	Toxaphene	40	U
12674-11-2	Aroclor-1016	40	U
11104-28-2	Aroclor-1221	40	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	40	U
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	79	U
11096-82-5	Aroclor-1260	79	U

Vi = Volume of extract injected (ul)
Vs = Volume of water extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs: or Ws: 30 Vt: 20 Vi: 4

Client: CENTURY LABORATORIES
Job Number: 75632
Sample ID: S-W-3B-11

Organics Analysis Data Sheet

Pesticide/PCBs

Concentration: Low
Date Extracted/Prepared: 11-1-87
Date Analyzed: 11-17-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 15

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
319-84-6	Alpha-BHC	3.9	U
319-85-7	Beta-BHC	7.8	
319-86-8	Delta-BHC	3.9	U
58-89-9	Gamma-BHC (Lindane)	3.9	U
76-44-8	Heptachlor	3.9	U
309-00-2	Aldrin	3.9	U
1024-57-3	Heptachlor Epoxide	3.9	U
959-98-8	Endosulfan I	3.9	U
60-57-1	Dieldrin	7.8	U
72-55-9	4,4'-DDE	7.8	U
72-20-8	Endrin	7.8	U
33213-65-9	Endosulfan II	7.8	U
72-54-8	4,4'-DDD	7.8	U
1031-07-8	Endosulfan Sulfate	7.8	U
50-29-3	4,4'-DDT	7.8	U
72-43-5	Methoxychlor	39	U
53494-70-5	Endrin Ketone	7.8	U
57-74-9	Chlordane	39	U
8001-35-2	Toxaphene	39	U
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	78	U
11096-82-5	Aroclor-1260	78	U

Vi = Volume of extract injected (ul)
Vs = Volume of water extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs: or Ws: 30 Vt: 20 Vi: 4

Client: CENTURY LABORATORIES INC.
Job Number: 75577
Sample ID: S-W-1-1

Organics Analysis Data Sheet

Pesticide/PCBs

Concentration: Low
Date Extracted/Prepared: 10-14-87
Date Analyzed: 10-24-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 9

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
319-84-6	Alpha-BHC	3.7	U
319-85-7	Beta-BHC	3.7	U
319-86-8	Delta-BHC	3.7	U
58-89-9	Gamma-BHC (Lindane)	3.7	U
76-44-8	Heptachlor	3.7	U
309-00-2	Aldrin	3.7	U
1024-57-3	Heptachlor Epoxide	3.7	U
959-98-8	Endosulfan I	3.7	U
60-57-1	Dieldrin	7.3	U
72-55-9	4,4'-DDE	7.3	U
72-20-8	Endrin	7.3	U
33213-65-9	Endosulfan II	7.3	U
72-54-8	4,4'-DDD	7.3	U
1031-07-8	Endosulfan Sulfate	7.3	U
50-29-3	4,4'-DDT	7.3	U
72-43-5	Methoxychlor	37	U
53494-70-5	Endrin Ketone	7.3	U
57-74-9	Chlordane	37	U
8001-35-2	Toxaphene	37	U
12674-11-2	Aroclor-1016	37	U
11104-28-2	Aroclor-1221	37	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	73	U
11096-82-5	Aroclor-1260	73	U

Vi = Volume of extract injected (ul)
Vs = Volume of water extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs: or Ws: 30 Vt: 20 Vi: 4

Client: CENTURY LABORATORIES INC.
Job Number: 75577
Sample ID: S-W-1-3

Organics Analysis Data Sheet

Pesticide/PCBs

Concentration: Low
Date Extracted/Prepared: 10-14-87
Date Analyzed: 10-24-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 11

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
319-84-6	Alpha-BHC	3.7	U
319-85-7	Beta-BHC	3.7	U
319-86-8	Delta-BHC	3.7	U
58-89-9	Gamma-BHC (Lindane)	3.7	U
76-44-8	Heptachlor	3.7	U
309-00-2	Aldrin	3.7	U
1024-57-3	Heptachlor Epoxide	3.7	U
959-98-8	Endosulfan I	3.7	U
60-57-1	Dieldrin	7.5	U
72-55-9	4,4'-DDE	7.5	U
72-20-8	Endrin	7.5	U
33213-65-9	Endosulfan II	7.5	U
72-54-8	4,4'-DDD	7.5	U
1031-07-8	Endosulfan Sulfate	7.5	U
50-29-3	4,4'-DDT	7.5	U
72-43-5	Methoxychlor	37	U
53494-70-5	Endrin Ketone	7.5	U
57-74-9	Chlordane	37	U
8001-35-2	Toxaphene	37	U
12674-11-2	Aroclor-1016	37	U
11104-28-2	Aroclor-1221	37	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	75	U
11096-82-5	Aroclor-1260	75	U

Vi = Volume of extract injected (ul)
Vs = Volume of water extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs: or Ws: 30 Vt: 20 Vi: 4

Client: CENTURY LABORATORIES INC.
Job Number: 75577
Sample ID: S-W-1-5

Organics Analysis Data Sheet

Pesticide/PCBs

Concentration: Low
Date Extracted/Prepared: 10-14-87
Date Analyzed: 10-24-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): 13

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/kg	
319-84-6	Alpha-BHC	3.8	U
319-85-7	Beta-BHC	3.8	U
319-86-8	Delta-BHC	3.8	U
58-89-9	Gamma-BHC (Lindane)	3.8	U
76-44-8	Heptachlor	3.8	U
309-00-2	Aldrin	3.8	U
1024-57-3	Heptachlor Epoxide	3.8	U
959-98-8	Endosulfan I	3.8	U
60-57-1	Dieldrin	7.7	U
72-55-9	4,4'-DDE	7.7	U
72-20-8	Endrin	7.7	U
33213-65-9	Endosulfan II	7.7	U
72-54-8	4,4'-DDD	7.7	U
1031-07-8	Endosulfan Sulfate	7.7	U
50-29-3	4,4'-DDT	7.7	U
72-43-5	Methoxychlor	38	U
53494-70-5	Endrin Ketone	7.7	U
57-74-9	Chlordane	38	U
8001-35-2	Toxaphene	38	U
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	36	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	77	U
11096-82-5	Aroclor-1260	77	U

Vi = Volume of extract injected (ul)
Vs = Volume of water extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs: or Ws: 30 Vt: 20 Vi: 4

Client: CENTURY LABORATORIES
Job Number: 75656
Sample ID: GW-WB

Organics Analysis Data Sheet

Pesticide/PCBs

Concentration: Low
Date Extracted/Prepared: 11-7-87
Date Analyzed: 11-27-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): NA

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/l	
319-84-6	Alpha-BHC	.05	U
319-85-7	Beta-BHC	.05	U
319-86-8	Delta-BHC	.05	U
58-89-9	Gamma-BHC (Lindane)	.05	U
76-44-8	Heptachlor	.05	U
309-00-2	Aldrin	.05	U
1024-57-3	Heptachlor Epoxide	.05	U
959-98-8	Endosulfan I	.05	U
60-57-1	Dieldrin	.1	U
72-55-9	4,4'-DDE	.1	U
72-20-8	Endrin	.1	U
33213-65-9	Endosulfan II	.1	U
72-54-8	4,4'-DDD	.1	U
1031-07-8	Endosulfan Sulfate	.1	U
50-29-3	4,4'-DDT	.1	U
72-43-5	Methoxychlor	.5	U
53494-70-5	Endrin Ketone	.1	U
57-74-9	Chlordane	.5	U
8001-35-2	Toxaphene	.5	U
12674-11-2	Aroclor-1016	.5	U
11104-28-2	Aroclor-1221	.5	U
11141-16-5	Aroclor-1232	.5	U
53469-21-9	Aroclor-1242	.5	U
12672-29-6	Aroclor-1248	.5	U
11097-69-1	Aroclor-1254	1	U
11096-82-5	Aroclor-1260	1	U

Vi = Volume of extract injected (ul)
Vs = Volume of water extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs: 1000 or Ws: Vt: 10 Vi: 4

Client: CENTURY LABORATORIES
Job Number: 75656
Sample ID: GW-W2

Organics Analysis Data Sheet

Pesticide/PCBs

Concentration: Low
Date Extracted/Prepared: 11-7-87
Date Analyzed: 11-27-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): NA

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/l	
319-84-6	Alpha-BHC	.05	U
319-85-7	Beta-BHC	.05	U
319-86-8	Delta-BHC	.05	U
58-89-9	Gamma-BHC (Lindane)	.05	U
76-44-8	Heptachlor	.05	U
309-00-2	Aldrin	.05	U
1024-57-3	Heptachlor Epoxide	.05	U
959-98-8	Endosulfan I	.05	U
60-57-1	Dieldrin	.1	U
72-55-9	4,4'-DDE	.1	U
72-20-8	Endrin	.1	U
33213-65-9	Endosulfan II	.1	U
72-54-8	4,4'-DDD	.1	U
1031-07-8	Endosulfan Sulfate	.1	U
50-29-3	4,4'-DDT	.1	U
72-43-5	Methoxychlor	.5	U
53494-70-5	Endrin Ketone	.1	U
57-74-9	Chlordane	.5	U
8001-35-2	Toxaphene	.5	U
12674-11-2	Aroclor-1016	.5	U
11104-28-2	Aroclor-1221	.5	U
11141-16-5	Aroclor-1232	.5	U
53469-21-9	Aroclor-1242	.5	U
12672-29-6	Aroclor-1248	.5	U
11097-69-1	Aroclor-1254	1	U
11096-82-5	Aroclor-1260	1	U

Vi = Volume of extract injected (ul)
Vs = Volume of water extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs: 1000 or Ws: Vt: 10 Vi: 4

Client: CENTURY LABORATORIES
Job Number: 75656
Sample ID: GW-W3B

Organics Analysis Data Sheet

Pesticide/PCBs

Concentration: Low
Date Extracted/Prepared: 11-7-87
Date Analyzed: 11-27-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): NA

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/l	
319-84-6	Alpha-BHC	.05	U
319-85-7	Beta-BHC	.05	U
319-86-8	Delta-BHC	.05	U
58-89-9	Gamma-BHC (Lindane)	.05	U
76-44-8	Heptachlor	.05	U
309-00-2	Aldrin	.05	U
1024-57-3	Heptachlor Epoxide	.05	U
959-98-8	Endosulfan I	.05	U
60-57-1	Dieldrin	.1	U
72-55-9	4,4'-DDE	.1	U
72-20-8	Endrin	.1	U
33213-65-9	Endosulfan II	.1	U
72-54-8	4,4'-DDD	.1	U
1031-07-8	Endosulfan Sulfate	.1	U
50-29-3	4,4'-DDT	.1	U
72-43-5	Methoxychlor	.5	U
53494-70-5	Endrin Ketone	.1	U
57-74-9	Chlordane	.5	U
8001-35-2	Toxaphene	.5	U
12674-11-2	Aroclor-1016	.5	U
11104-28-2	Aroclor-1221	.5	U
11141-16-5	Aroclor-1232	.5	U
53469-21-9	Aroclor-1242	.5	U
12672-29-6	Aroclor-1248	.5	U
11097-69-1	Aroclor-1254	1	U
11096-82-5	Aroclor-1260	1	U

Vi = Volume of extract injected (ul)
Vs = Volume of water extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs: 1000 or Ws: Vt: 10 Vi: 4

Client: CENTURY LABORATORIES
Lab Number: 75656
Sample ID: GW-W4D

Organics Analysis Data Sheet

Pesticide/PCBs

Concentration: Low
Date Extracted/Prepared: 11-7-87
Date Analyzed: 11-27-87
Conc/Dil Factor: 1
Percent Moisture (Decanted): NA

GPC Cleanup: No
Separatory Funnel Extraction: No
Continuous Liquid-Liquid Extraction: No

CAS #		ug/l	
319-84-6	Alpha-BHC	.05	U
319-85-7	Beta-BHC	.05	U
319-86-8	Delta-BHC	.05	U
58-89-9	Gamma-BHC (Lindane)	.05	U
76-44-8	Heptachlor	.05	U
309-00-2	Aldrin	.05	U
1024-57-3	Heptachlor Epoxide	.05	U
959-98-8	Endosulfan I	.05	U
60-57-1	Dieldrin	.1	U
72-55-9	4,4'-DDE	.1	U
72-20-8	Endrin	.1	U
33213-65-9	Endosulfan II	.1	U
72-54-8	4,4'-DDD	.1	U
1031-07-8	Endosulfan Sulfate	.1	U
50-29-3	4,4'-DDT	.1	U
72-43-5	Methoxychlor	.5	U
53494-70-5	Endrin Ketone	.1	U
57-74-9	Chlordane	.5	U
8001-35-2	Toxaphene	.5	U
12674-11-2	Aroclor-1016	.5	U
11104-28-2	Aroclor-1221	.5	U
11141-16-5	Aroclor-1232	.5	U
53469-21-9	Aroclor-1242	.5	U
12672-29-6	Aroclor-1248	.5	U
11097-69-1	Aroclor-1254	1	U
11096-82-5	Aroclor-1260	1	U

Vi = Volume of extract injected (ul)
Vs = Volume of water extracted (ml)
Ws = Weight of sample extracted (g)
Vt = Volume of total extract (ul)

Vs: 1000 or Ws: Vt: 10 Vi: 4

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD-A2-2

Lab Name: U.S.T. CO. CLIENT .: CENTURY LABS

Lab Code: US TEST Case No.: 10130 SAS No.: NA SDG No.: ~~A259~~ NA

Matrix: (soil/water) SOIL Lab Sample ID: 10130-1X10

Sample wt/vol: 30.1 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 03/14/88

% Moisture: not dec. 6 dec. Date Extracted: 03/18/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/22/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	85	U
319-85-7	beta-BHC	85	U
319-86-8	delta-BHC	85	U
58-89-9	gamma-BHC (Lindane)	85	U
76-44-8	Heptachlor	85	U
309-00-2	Aldrin	85	U
1024-57-3	Heptachlor epoxide	85	U
959-98-8	Endosulfan I	85	U
60-57-1	Dieldrin	170	U
72-55-9	4,4'-DDE	170	U
72-20-8	Endrin	170	U
33213-65-9	Endosulfan II	170	U
72-54-8	4,4'-DDD	170	U
1031-07-8	Endosulfan sulfate	170	U
50-29-3	4,4'-DDT	170	U
72-43-5	Methoxychlor	850	U
53494-70-5	Endrin ketone	170	U
5103-71-9	alpha-Chlordane	850	U
5103-74-2	gamma-Chlordane	850	U
8001-35-2	Toxaphene	1700	U
12674-11-2	Aroclor-1016	850	U
11104-28-2	Aroclor-1221	850	U
11141-16-5	Aroclor-1232	850	U
53469-21-9	Aroclor-1242	850	U
12672-29-6	Aroclor-1248	850	U
11097-69-1	Aroclor-1254	1700	U
11096-82-5	Aroclor-1260	1700	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD-A4-2

ab Name: U.S.T. CO. CLIENT: CENTURY LABS

Lab Code: US TEST Case No.: 10130 SAS No.: NA SDG No.: ~~A330~~ NA

atrix: (soil/water) SOIL Lab Sample ID: 10130-3X5

ample wt/vol: 30.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 03/14/88

Moisture: not dec. 29 dec. Date Extracted: 03/18/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/22/88

PC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 5.00

CAS-NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	56	U
319-85-7	beta-BHC	56	U
319-86-8	delta-BHC	56	U
58-89-9	gamma-BHC (Lindane)	56	U
76-44-8	Heptachlor	56	U
309-00-2	Aldrin	56	U
1024-57-3	Heptachlor epoxide	56	U
959-98-8	Endosulfan I	56	U
60-57-1	Dieldrin	110	U
72-55-9	4,4'-DDE	110	U
72-20-8	Endrin	110	U
33213-65-9	Endosulfan II	110	U
72-54-8	4,4'-DDD	110	U
1031-07-8	Endosulfan sulfate	110	U
50-29-3	4,4'-DDT	110	U
72-43-5	Methoxychlor	560	U
53494-70-5	Endrin ketone	110	U
5103-71-9	alpha-Chlordane	560	U
5103-74-2	gamma-Chlordane	560	U
8001-35-2	Toxaphene	1100	U
12674-11-2	Aroclor-1016	560	U
11104-28-2	Aroclor-1221	560	U
11141-16-5	Aroclor-1232	560	U
53469-21-9	Aroclor-1242	560	U
12672-29-6	Aroclor-1248	560	U
11097-69-1	Aroclor-1254	1100	U
11096-82-5	Aroclor-1260	1100	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD-B1-2

Lab Name: U.S.T. CO. CLIENT: CENTURY LABS

Lab Code: US TEST Case No.: 10130 SAS No.: NA SDG No.: ~~AJ36~~ NA

Matrix: (soil/water) SOIL Lab Sample ID: 10130-5X5

Sample wt/vol: 30.7 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 03/14/88

% Moisture: not dec. 18 dec. Date Extracted: 03/18/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/22/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	48	U
319-85-7	beta-BHC	48	U
319-86-8	delta-BHC	48	U
58-89-9	gamma-BHC (Lindane)	48	U
76-44-8	Heptachlor	48	U
309-00-2	Aldrin	48	U
1024-57-3	Heptachlor epoxide	48	U
959-98-8	Endosulfan I	48	U
60-57-1	Dieldrin	95	U
72-55-9	4,4'-DDE	95	U
72-20-8	Endrin	95	U
33213-65-9	Endosulfan II	95	U
72-54-8	4,4'-DDD	95	U
1031-07-8	Endosulfan sulfate	95	U
50-29-3	4,4'-DDT	95	U
72-43-5	Methoxychlor	480	U
53494-70-5	Endrin ketone	95	U
5103-71-9	alpha-Chlordane	480	U
5103-74-2	gamma-Chlordane	480	U
8001-35-2	Toxaphene	950	U
12674-11-2	Aroclor-1016	480	U
11104-28-2	Aroclor-1221	480	U
11141-16-5	Aroclor-1232	480	U
53469-21-9	Aroclor-1242	480	U
12672-29-6	Aroclor-1248	480	U
11097-69-1	Aroclor-1254	950	U
11096-82-5	Aroclor-1260	950	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD-B3-2

Lab Name: U.S.T. CO. CLIENT: CENTURY LABS

Lab Code: US TEST Case No.: 10130 SAS No.: NA SDG No.: ~~A030~~ NA

Matrix: (soil/water) SOIL Lab Sample ID: 10130-7X50

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 03/14/88

% Moisture: not dec. 12 dec. ____ Date Extracted: 03/18/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/22/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 50.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	450	U
319-85-7	beta-BHC	450	U
319-86-8	delta-BHC	450	U
58-89-9	gamma-BHC (Lindane)	450	U
76-44-8	Heptachlor	450	U
309-00-2	Aldrin	450	U
1024-57-3	Heptachlor epoxide	450	U
959-98-8	Endosulfan I	450	U
60-57-1	Dieldrin	910	U
72-55-9	4,4'-DDE	910	U
72-20-8	Endrin	910	U
33213-65-9	Endosulfan II	910	U
72-54-8	4,4'-DDD	910	U
1031-07-8	Endosulfan sulfate	910	U
50-29-3	4,4'-DDT	910	U
72-43-5	Methoxychlor	4500	U
53494-70-5	Endrin ketone	910	U
5103-71-9	alpha-Chlordane	4500	U
5103-74-2	gamma-Chlordane	4500	U
8001-35-2	Toxaphene	9100	U
12674-11-2	Aroclor-1016	4500	U
11104-28-2	Aroclor-1221	4500	U
11141-16-5	Aroclor-1232	4500	U
53469-21-9	Aroclor-1242	4500	U
12672-29-6	Aroclor-1248	4500	U
11097-69-1	Aroclor-1254	9100	U
11096-82-5	Aroclor-1260	9100	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD-B3-2D

Lab Name: U.S.T. CO. CLIENT: CENTURY LABS

Lab Code: US TEST Case No.: 10130 SAS No.: NA SDG No.: ~~A190~~ NA

Matrix: (soil/water) SOIL Lab Sample ID: 10130-26

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 03/14/88

% Moisture: not dec. 12 dec. ____ Date Extracted: 03/18/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/23/88

GPC Cleanup: (Y/N) N pH: 7.1 Dilution Factor: 5.00

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

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	45	U
319-85-7	beta-BHC	45	U
319-86-8	delta-BHC	45	U
58-89-9	gamma-BHC (Lindane)	45	U
76-44-8	Heptachlor	45	U
309-00-2	Aldrin	45	U
1024-57-3	Heptachlor epoxide	45	U
959-98-8	Endosulfan I	45	U
60-57-1	Dieldrin	91	U
72-55-9	4,4'-DDE	91	U
72-20-8	Endrin	91	U
33213-65-9	Endosulfan II	91	U
72-54-8	4,4'-DDD	91	U
1031-07-8	Endosulfan sulfate	91	U
50-29-3	4,4'-DDT	91	U
72-43-5	Methoxychlor	450	U
53494-70-5	Endrin ketone	91	U
5103-71-9	alpha-Chlordane	450	U
5103-74-2	gamma-Chlordane	450	U
8001-35-2	Toxaphene	910	U
12674-11-2	Aroclor-1016	450	U
11104-28-2	Aroclor-1221	450	U
11141-16-5	Aroclor-1232	450	U
53469-21-9	Aroclor-1242	450	U
12672-29-6	Aroclor-1248	450	U
11097-69-1	Aroclor-1254	910	U
11096-82-5	Aroclor-1260	910	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD-B4-2

Lab Name: U.S.T. CO. CLIENT: CENTURY LABS

Lab Code: US TEST Case No.: 10130 SAS No.: NA SDG No.: ~~A330~~ NA

Matrix: (soil/water) SOIL Lab Sample ID: 10130-BX5

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 03/14/88

% Moisture: not dec. 19 dec. Date Extracted: 03/18/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/22/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	49	U
319-85-7	beta-BHC	49	U
319-86-8	delta-BHC	49	U
58-89-9	gamma-BHC (Lindane)	49	U
76-44-8	Heptachlor	49	U
309-00-2	Aldrin	49	U
1024-57-3	Heptachlor epoxide	49	U
959-98-8	Endosulfan I	49	U
60-57-1	Dieldrin	99	U
72-55-9	4,4'-DDE	99	U
72-20-8	Endrin	99	U
33213-65-9	Endosulfan II	99	U
72-54-8	4,4'-DDD	99	U
1031-07-8	Endosulfan sulfate	99	U
50-29-3	4,4'-DDT	99	U
72-43-5	Methoxychlor	490	U
53494-70-5	Endrin ketone	99	U
5103-71-9	alpha-Chlordane	490	U
5103-74-2	gamma-Chlordane	490	U
8001-35-2	Toxaphene	990	U
12674-11-2	Aroclor-1016	490	U
11104-28-2	Aroclor-1221	490	U
11141-16-5	Aroclor-1232	490	U
53469-21-9	Aroclor-1242	490	U
12672-29-6	Aroclor-1248	490	U
11097-69-1	Aroclor-1254	990	U
11096-82-5	Aroclor-1260	990	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD-C1-2

Lab Name: U.S.T. CO. CLIENT: CENTURY LABS

Lab Code: US TEST Case No.: 10130 SAS No.: NA SDG No.: ~~A330~~ NA

Matrix: (soil/water) SOIL Lab Sample ID: 10130-9X5

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 03/14/88

% Moisture: not dec. 14 dec. Date Extracted: 03/18/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/22/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	47	U
319-85-7	beta-BHC	47	U
319-86-8	delta-BHC	47	U
58-89-9	gamma-BHC (Lindane)	47	U
76-44-8	Heptachlor	47	U
309-00-2	Aldrin	47	U
1024-57-3	Heptachlor epoxide	47	U
959-98-8	Endosulfan I	47	U
60-57-1	Dieldrin	93	U
72-55-9	4,4'-DDE	93	U
72-20-8	Endrin	93	U
33213-65-9	Endosulfan II	93	U
72-54-8	4,4'-DDD	93	U
1031-07-8	Endosulfan sulfate	93	U
50-29-3	4,4'-DDT	93	U
72-43-5	Methoxychlor	470	U
53494-70-5	Endrin ketone	93	U
5103-71-9	alpha-Chlordane	470	U
5103-74-2	gamma-Chlordane	470	U
8001-35-2	Toxaphene	930	U
12674-11-2	Aroclor-1016	470	U
11104-28-2	Aroclor-1221	470	U
11141-16-5	Aroclor-1232	470	U
53469-21-9	Aroclor-1242	470	U
12672-29-6	Aroclor-1248	470	U
11097-69-1	Aroclor-1254	930	U
11096-82-5	Aroclor-1260	930	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD-C2-2

Lab Name: U.S.T. CO. CLIENT: CENTURY LABS

Lab Code: US TEST Case No.: 10130 SAS No.: NA SDG No.: ~~A220~~ NA

Matrix: (soil/water) SOIL Lab Sample ID: 10130-10X5

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 03/14/88

% Moisture: not dec. 9 dec. ____ Date Extracted: 03/18/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/22/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	44	U
319-85-7	beta-BHC	44	U
319-86-8	delta-BHC	44	U
58-89-9	gamma-BHC (Lindane)	44	U
76-44-8	Heptachlor	44	U
309-00-2	Aldrin	44	U
1024-57-3	Heptachlor epoxide	44	U
959-98-8	Endosulfan I	44	U
60-57-1	Dieldrin	88	U
72-55-9	4,4'-DDE	88	U
72-20-8	Endrin	88	U
33213-65-9	Endosulfan II	88	U
72-54-8	4,4'-DDD	88	U
1031-07-8	Endosulfan sulfate	88	U
50-29-3	4,4'-DDT	88	U
72-43-5	Methoxychlor	440	U
53494-70-5	Endrin ketone	88	U
5103-71-9	alpha-Chlordane	440	U
5103-74-2	gamma-Chlordane	440	U
8001-35-2	Toxaphene	880	U
12674-11-2	Aroclor-1016	440	U
11104-28-2	Aroclor-1221	440	U
11141-16-5	Aroclor-1232	440	U
53469-21-9	Aroclor-1242	440	U
12672-29-6	Aroclor-1248	440	U
11097-69-1	Aroclor-1254	880	U
11096-82-5	Aroclor-1260	880	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD-03-2

Lab Name: U.S.T. CO. CLIENT, CENTURY LABS

Lab Code: US TEST Case No.: 10130 SAS No.: NA SDG No.: ~~1330~~ NA

Matrix: (soil/water) SOIL Lab Sample ID: 10130-11X50

Sample wt/vol: 30.1 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 03/14/88

% Moisture: not dec. 11 dec. Date Extracted: 03/18/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/23/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 50.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	450	U
319-85-7	beta-BHC	450	U
319-86-8	delta-BHC	450	U
58-89-9	gamma-BHC (Lindane)	450	U
76-44-8	Heptachlor	450	U
309-00-2	Aldrin	450	U
1024-57-3	Heptachlor epoxide	450	U
959-98-8	Endosulfan I	450	U
60-57-1	Dieldrin	900	U
72-55-9	4,4'-DDE	900	U
72-20-8	Endrin	900	U
33213-65-9	Endosulfan II	900	U
72-54-8	4,4'-DDD	900	U
1031-07-8	Endosulfan sulfate	900	U
50-29-3	4,4'-DDT	900	U
72-43-5	Methoxychlor	4500	U
53494-70-5	Endrin ketone	900	U
5103-71-9	alpha-Chlordane	4500	U
5103-74-2	gamma-Chlordane	4500	U
8001-35-2	Toxaphene	9000	U
12674-11-2	Aroclor-1016	4500	U
11104-28-2	Aroclor-1221	4500	U
11141-16-5	Aroclor-1232	4500	U
53469-21-9	Aroclor-1242	4500	U
12672-29-6	Aroclor-1248	4500	U
11097-69-1	Aroclor-1254	9000	U
11096-82-5	Aroclor-1260	9000	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BD-C4-2

Lab Name: U.S.T. CO. CLIENT: CENTURY LABS

Lab Code: US TEST Case No.: 10130 SAS No.: NA SDG No.: ~~10130~~ NA

Matrix: (soil/water) SOIL Lab Sample ID: 10130-12X5

Sample wt/vol: 30.1 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 03/14/88

% Moisture: not dec. 8 dec. Date Extracted: 03/18/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/22/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	43	U
319-85-7	beta-BHC	43	U
319-86-8	delta-BHC	43	U
58-89-9	gamma-BHC (Lindane)	43	U
76-44-8	Heptachlor	43	U
309-00-2	Aldrin	43	U
1024-57-3	Heptachlor epoxide	43	U
959-98-8	Endosulfan I	43	U
60-57-1	Dieldrin	87	U
72-55-9	4,4'-DDE	87	U
72-20-8	Endrin	87	U
33213-65-9	Endosulfan II	87	U
72-54-8	4,4'-DDD	87	U
1031-07-8	Endosulfan sulfate	87	U
50-29-3	4,4'-DDT	87	U
72-43-5	Methoxychlor	430	U
53494-70-5	Endrin ketone	87	U
5103-71-9	alpha-Chlordane	430	U
5103-74-2	gamma-Chlordane	430	U
8001-35-2	Toxaphene	870	U
12674-11-2	Aroclor-1016	430	U
11104-28-2	Aroclor-1221	430	U
11141-16-5	Aroclor-1232	430	U
53469-21-9	Aroclor-1242	430	U
12672-29-6	Aroclor-1248	430	U
11097-69-1	Aroclor-1254	870	U
11096-82-5	Aroclor-1260	870	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD-D1-2

Lab Name: U.S.T. CO. CLIENT: CENTURY LABS

Lab Code: US TEST Case No.: 10130 SAS No.: NA SDG No.: ~~[illegible]~~ NA

Matrix: (soil/water) SOIL Lab Sample ID: 10130-13X5

Sample wt/vol: 30.1 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 03/14/88

% Moisture: not dec. 59 dec. Date Extracted: 03/18/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/22/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	97	U
319-85-7	beta-BHC	97	U
319-86-8	delta-BHC	97	U
58-89-9	gamma-BHC (Lindane)	97	U
76-44-8	Heptachlor	97	U
309-00-2	Aldrin	97	U
1024-57-3	Heptachlor epoxide	97	U
959-98-8	Endosulfan I	97	U
60-57-1	Dieldrin	190	U
72-55-9	4,4'-DDE	190	U
72-20-8	Endrin	190	U
33213-65-9	Endosulfan II	190	U
72-54-8	4,4'-DDD	190	U
1031-07-8	Endosulfan sulfate	190	U
50-29-3	4,4'-DDT	190	U
72-43-5	Methoxychlor	970	U
53494-70-5	Endrin ketone	190	U
5103-71-9	alpha-Chlordane	970	U
5103-74-2	gamma-Chlordane	970	U
8001-35-2	Toxaphene	1900	U
12674-11-2	Aroclor-1016	970	U
11104-28-2	Aroclor-1221	970	U
11141-16-5	Aroclor-1232	970	U
53469-21-9	Aroclor-1242	970	U
12672-29-6	Aroclor-1248	970	U
11097-69-1	Aroclor-1254	420	J
11096-82-5	Aroclor-1260	1900	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD-D2-2

Lab Name: U.S.T. CO. CLIENT: CENTURY LABS

Lab Code: US TEST Case No.: 10130 SAS No.: NA SDG No.: ~~A123~~ NA

Matrix: (soil/water) SOIL Lab Sample ID: 10130-14X5

Sample wt/vol: 30.1 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 03/14/88

% Moisture: not dec. 6 dec. Date Extracted: 03/18/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/23/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	42	U
319-85-7	beta-BHC	42	U
319-86-8	delta-BHC	42	U
58-89-9	gamma-BHC (Lindane)	42	U
76-44-8	Heptachlor	42	U
309-00-2	Aldrin	42	U
1024-57-3	Heptachlor epoxide	42	U
959-98-8	Endosulfan I	42	U
60-57-1	Dieldrin	85	U
72-55-9	4,4'-DDE	85	U
72-20-8	Endrin	85	U
33213-65-9	Endosulfan II	85	U
72-54-8	4,4'-DDD	85	U
1031-07-8	Endosulfan sulfate	85	U
50-29-3	4,4'-DDT	85	U
72-43-5	Methoxychlor	420	U
53494-70-5	Endrin ketone	85	U
5103-71-9	alpha-Chlordane	420	U
5103-74-2	gamma-Chlordane	420	U
8001-35-2	Toxaphene	850	U
12674-11-2	Aroclor-1016	420	U
11104-28-2	Aroclor-1221	420	U
11141-16-5	Aroclor-1232	420	U
53469-21-9	Aroclor-1242	1200	
12672-29-6	Aroclor-1248	420	U
11097-69-1	Aroclor-1254	1500	
11096-82-5	Aroclor-1260	850	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD-D3-2

Lab Name: U.S.T. CO. - CLIENT: CENTURY LABS

Lab Code: US TEST Case No.: 10130 SAS No.: NA SDG No.: NA

Matrix: (soil/water) SOIL Lab Sample ID: 10130-15X5

Sample wt/vol: 30.1 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 03/14/88

% Moisture: not dec. 6 dec. Date Extracted: 03/18/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/23/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	42	U
319-85-7	beta-BHC	42	U
319-86-8	delta-BHC	42	U
58-89-9	gamma-BHC (Lindane)	42	U
76-44-8	Heptachlor	42	U
309-00-2	Aldrin	42	U
1024-57-3	Heptachlor epoxide	42	U
959-98-8	Endosulfan I	42	U
60-57-1	Dieldrin	85	U
72-55-9	4,4'-DDE	85	U
72-20-8	Endrin	85	U
33213-65-9	Endosulfan II	85	U
72-54-8	4,4'-DDD	85	U
1031-07-8	Endosulfan sulfate	85	U
50-29-3	4,4'-DDT	85	U
72-43-5	Methoxychlor	420	U
53494-70-5	Endrin ketone	85	U
5103-71-9	alpha-Chlordane	420	U
5103-74-2	gamma-Chlordane	420	U
8001-35-2	Toxaphene	850	U
12674-11-2	Aroclor-1016	420	U
11104-28-2	Aroclor-1221	420	U
11141-16-5	Aroclor-1232	420	U
53469-21-9	Aroclor-1242	420	U
12672-29-6	Aroclor-1248	420	U
11097-69-1	Aroclor-1254	850	U
11096-82-5	Aroclor-1260	850	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD-D4-2

Lab Name: U.S.T. CO. CLIENT: CENTURY LABS

Lab Code: US TEST Case No.: 10130 SAS No.: NA SDG No.: NA

Matrix: (soil/water) SOIL Lab Sample ID: 10130-1655

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 03/14/88

% Moisture: not dec. 18 dec. Date Extracted: 03/18/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/23/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	49	U
319-85-7	beta-BHC	49	U
319-86-8	delta-BHC	49	U
58-89-9	gamma-BHC (Lindane)	49	U
76-44-8	heptachlor	49	U
309-00-2	Aldrin	49	U
1024-57-3	Heptachlor epoxide	49	U
959-98-8	Endosulfan I	49	U
60-57-1	Dieldrin	98	U
72-55-9	4,4'-DDE	98	U
72-20-8	Endrin	98	U
33213-65-9	Endosulfan II	98	U
72-54-8	4,4'-DDD	98	U
1031-07-8	Endosulfan sulfate	98	U
50-29-3	4,4'-DDT	98	U
72-43-5	Methoxychlor	490	U
53494-70-5	Endrin ketone	98	U
5103-71-9	alpha-Chlordane	490	U
5103-74-2	gamma-Chlordane	490	U
8001-35-2	Toxaphene	980	U
12674-11-2	Aroclor-1016	490	U
11104-28-2	Aroclor-1221	490	U
11141-16-5	Aroclor-1232	490	U
53469-21-9	Aroclor-1242	490	U
12672-29-6	Aroclor-1248	490	U
11097-69-1	Aroclor-1254	980	U
11096-82-5	Aroclor-1260	980	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD-E1-2

Lab Name: U.S.T. CO. CLIENT: CENTURY LABS

Lab Code: US TEST Case No.: 10130 SAS No.: NA SDG No.: ~~[illegible]~~ NA

Matrix: (soil/water) SOIL Lab Sample ID: 10130-17X5

Sample wt/vol: 30.3 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 03/14/88

% Moisture: not dec. 19 dec. ____ Date Extracted: 03/18/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/22/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	49	U
319-85-7	beta-BHC	49	U
319-86-8	delta-BHC	49	U
58-89-9	gamma-BHC (Lindane)	49	U
76-44-8	Heptachlor	49	U
309-00-2	Aldrin	49	U
1024-57-3	Heptachlor epoxide	49	U
959-98-8	Endosulfan I	49	U
60-57-1	Dieldrin	98	U
72-55-9	4,4'-DDE	98	U
72-20-8	Endrin	98	U
33213-65-9	Endosulfan II	98	U
72-54-8	4,4'-DDD	98	U
1031-07-8	Endosulfan sulfate	98	U
50-29-3	4,4'-DDT	98	U
72-43-5	Methoxychlor	490	U
53494-70-5	Endrin ketone	98	U
5103-71-9	alpha-Chlordane	490	U
5103-74-2	gamma-Chlordane	490	U
8001-35-2	Toxaphene	980	U
12674-11-2	Aroclor-1016	490	U
11104-28-2	Aroclor-1221	490	U
11141-16-5	Aroclor-1232	490	U
53469-21-9	Aroclor-1242	490	U
12672-29-6	Aroclor-1248	490	U
11097-69-1	Aroclor-1254	980	U
11096-82-5	Aroclor-1260	980	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD-E2-2

Lab Name: U.S.T. CO. CLIENT: CENTURY LABS

Lab Code: US TEST Case No.: 10130 SAS No.: NA SDG No.: ~~10130~~ NA

Matrix: (soil/water) SOIL Lab Sample ID: 10130-18 x5

Sample wt/vol: 30.3 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 03/14/88

% Moisture: not dec. 14 dec. ____ Date Extracted: 03/18/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/22/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	46	U
319-85-7	beta-BHC	46	U
319-86-8	delta-BHC	46	U
58-89-9	gamma-BHC (Lindane)	46	U
76-44-8	Heptachlor	46	U
309-00-2	Aldrin	46	U
1024-57-3	Heptachlor epoxide	46	U
959-98-8	Endosulfan I	46	U
60-57-1	Dieldrin	92	U
72-55-9	4,4'-DDE	92	U
72-20-8	Endrin	92	U
33213-65-9	Endosulfan II	92	U
72-54-8	4,4'-DDD	92	U
1031-07-8	Endosulfan sulfate	92	U
50-29-3	4,4'-DDT	92	U
72-43-5	Methoxychlor	460	U
53494-70-5	Endrin ketone	92	U
5103-71-9	alpha-Chlordane	460	U
5103-74-2	gamma-Chlordane	460	U
8001-35-2	Toxaphene	920	U
12674-11-2	Aroclor-1016	460	U
11104-28-2	Aroclor-1221	460	U
11141-16-5	Aroclor-1232	460	U
53469-21-9	Aroclor-1242	460	U
12672-29-6	Aroclor-1248	460	U
11097-69-1	Aroclor-1254	920	U
11096-82-5	Aroclor-1260	920	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD-E2-2D

Lab Name: U.S.T. CO. CLIENT: CENTURY LABS

Lab Code: US TEST Case No.: 10130 SAS No.: NA SDG No.: ~~[illegible]~~ NA

Matrix: (soil/water) SOIL Lab Sample ID: 10130-21 X5

Sample wt/vol: 30.3 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 03/14/88

% Moisture: not dec. 15 dec. ____ Date Extracted: 03/18/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/22/88

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	47	U
319-85-7	beta-BHC	47	U
319-86-8	delta-BHC	47	U
58-89-9	gamma-BHC (Lindane)	47	U
76-44-8	Heptachlor	47	U
309-00-2	Aldrin	47	U
1024-57-3	Heptachlor epoxide	47	U
959-98-8	Endosulfan I	47	U
60-57-1	Dieldrin	93	U
72-55-9	4,4'-DDE	93	U
72-20-8	Endrin	93	U
33213-65-9	Endosulfan II	93	U
72-54-8	4,4'-DDD	93	U
1031-07-8	Endosulfan sulfate	93	U
50-29-3	4,4'-DDT	93	U
72-43-5	Methoxychlor	470	U
53494-70-5	Endrin ketone	93	U
5103-71-9	alpha-Chlordane	470	U
5103-74-2	gamma-Chlordane	470	U
8001-35-2	Toxaphene	930	U
12674-11-2	Aroclor-1016	470	U
11104-28-2	Aroclor-1221	470	U
11141-16-5	Aroclor-1232	470	U
53469-21-9	Aroclor-1242	470	U
12672-29-6	Aroclor-1248	470	U
11097-69-1	Aroclor-1254	930	U
11096-82-5	Aroclor-1260	930	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD-E3-2

Lab Name: U.S.T. CO. CLIENT: CENTURY LABS

Lab Code: US TEST Case No.: 10130 SAS No.: NA SDG No.: NA

Matrix: (soil/water) SOIL Lab Sample ID: 10130-19x5

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 03/14/88

% Moisture: not dec. 8 dec. ____ Date Extracted: 03/18/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/22/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 5.00

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

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	43	U
319-85-7	beta-BHC	43	U
319-86-8	delta-BHC	43	U
58-89-9	gamma-BHC (Lindane)	43	U
76-44-8	Heptachlor	43	U
309-00-2	Aldrin	43	U
1024-57-3	Heptachlor epoxide	43	U
959-98-8	Endosulfan I	43	U
60-57-1	Dieldrin	87	U
72-55-9	4,4'-DDE	87	U
72-20-8	Endrin	87	U
33213-65-9	Endosulfan II	87	U
72-54-8	4,4'-DDD	87	U
1031-07-8	Endosulfan sulfate	87	U
50-29-3	4,4'-DDT	87	U
72-43-5	Methoxychlor	430	U
53494-70-5	Endrin ketone	87	U
5103-71-9	alpha-Chlordane	430	U
5103-74-2	gamma-Chlordane	430	U
8001-35-2	Toxaphene	870	U
12674-11-2	Aroclor-1016	430	U
11104-28-2	Aroclor-1221	430	U
11141-16-5	Aroclor-1232	430	U
53469-21-9	Aroclor-1242	430	U
12672-29-6	Aroclor-1248	430	U
11097-69-1	Aroclor-1254	870	U
11096-82-5	Aroclor-1260	870	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

LAB SAMPLE NO.

SD-E4-2

Lab Name: U.S.T. CO. CLIENT: CENTURY LABS

Lab Code: US TEST Case No.: 10130 SAS No.: NA SDG No.: NA

Matrix: (soil/water) SOIL Lab Sample ID: 10130-20X5

Sample wt/vol: 30.7 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 03/14/88

% Moisture: not dec. 10 dec. ____ Date Extracted: 03/18/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/22/88

GPC Cleanup: (Y/N) N pH: 7.1 Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	43	U
319-85-7	beta-BHC	43	U
319-86-8	delta-BHC	43	U
58-89-9	gamma-BHC (Lindane)	43	U
76-44-8	Heptachlor	43	U
309-00-2	Aldrin	43	U
1024-57-3	Heptachlor epoxide	43	U
959-98-8	Endosulfan I	43	U
60-57-1	Dieldrin	87	U
72-55-9	4,4'-DDE	87	U
72-20-8	Endrin	87	U
33213-65-9	Endosulfan II	87	U
72-54-8	4,4'-DDD	87	U
1031-07-8	Endosulfan sulfate	87	U
50-29-3	4,4'-DDT	87	U
72-43-5	Methoxychlor	430	U
53494-70-5	Endrin ketone	87	U
5103-71-9	alpha-Chlordane	430	U
5103-74-2	gamma-Chlordane	430	U
8001-35-2	Toxaphene	870	U
12674-11-2	Aroclor-1016	430	U
11104-28-2	Aroclor-1221	430	U
11141-16-5	Aroclor-1232	430	U
53469-21-9	Aroclor-1242	430	U
12672-29-6	Aroclor-1248	430	U
11097-69-1	Aroclor-1254	870	U
11096-82-5	Aroclor-1260	870	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD-F1-2

Lab Name: U.S.T. CO. CLIENT: CENTURY LABS

Lab Code: US TEST Case No.: 10130 SAS No.: NA SDG No.: ~~A130~~ NA

Matrix: (soil/water) SOIL Lab Sample ID: 10130-22x5

Sample wt/vol: 30.2 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 03/14/88

% Moisture: not dec. 17 dec. Date Extracted: 03/18/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/23/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	48	U
319-85-7	beta-BHC	48	U
319-86-8	delta-BHC	48	U
58-89-9	gamma-BHC (Lindane)	48	U
76-44-8	Heptachlor	48	U
309-00-2	Aldrin	48	U
1024-57-3	Heptachlor epoxide	48	U
959-98-8	Endosulfan I	48	U
60-57-1	Dieldrin	96	U
72-55-9	4,4'-DDE	96	U
72-20-8	Endrin	96	U
33213-65-9	Endosulfan II	96	U
72-54-8	4,4'-DDD	96	U
1031-07-8	Endosulfan sulfate	96	U
50-29-3	4,4'-DDT	96	U
72-43-5	Methoxychlor	480	U
53494-70-5	Endrin ketone	96	U
5103-71-9	alpha-Chlordane	480	U
5103-74-2	gamma-Chlordane	480	U
8001-35-2	Toxaphene	960	U
12674-11-2	Aroclor-1016	480	U
11104-28-2	Aroclor-1221	480	U
11141-16-5	Aroclor-1232	480	U
53469-21-9	Aroclor-1242	480	U
12672-29-6	Aroclor-1248	480	U
11097-69-1	Aroclor-1254	960	U
11096-82-5	Aroclor-1260	960	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD-F2-2

Lab Name: U.S.T. CO. CLIENT: CENTURY LABS

Lab Code: US TEST Case No.: 10130 SAS No.: NA SDG No.: ~~[illegible]~~ NA

Matrix: (soil/water) SOIL Lab Sample ID: 10130-23x5

Sample wt/vol: 30.6 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 03/14/88

% Moisture: not dec. 12 dec. ____ Date Extracted: 03/18/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/22/88

GPC Cleanup: (Y/N) N pH: 7.1 Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	45	U
319-85-7	beta-BHC	45	U
319-86-8	delta-BHC	45	U
58-89-9	gamma-BHC (Lindane)	45	U
76-44-8	Heptachlor	45	U
309-00-2	Aldrin	45	U
1024-57-3	Heptachlor epoxide	45	U
959-98-8	Endosulfan I	45	U
60-57-1	Dieldrin	89	U
72-55-9	4,4'-DDE	89	U
72-20-8	Endrin	89	U
33213-65-9	Endosulfan II	89	U
72-54-8	4,4'-DDD	89	U
1031-07-8	Endosulfan sulfate	89	U
50-29-3	4,4'-DDT	89	U
72-43-5	Methoxychlor	450	U
53494-70-5	Endrin ketone	89	U
5103-71-9	alpha-Chlordane	450	U
5103-74-2	gamma-Chlordane	450	U
8001-35-2	Toxaphene	890	U
12674-11-2	Aroclor-1016	450	U
11104-28-2	Aroclor-1221	450	U
11141-16-5	Aroclor-1232	450	U
53469-21-9	Aroclor-1242	450	U
12672-29-6	Aroclor-1248	450	U
11097-69-1	Aroclor-1254	890	U
11096-82-5	Aroclor-1260	890	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD-F3-2

Lab Name: U.S.T. CO. CLIENT: CENTURY LABS

Lab Code: US TEST Case No.: 10130 SAS No.: NA SDG No.: ~~A120~~ NA

Matrix: (soil/water) SOIL Lab Sample ID: 10130-24 x5

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 03/14/88

% Moisture: not dec. 15 dec. ____ Date Extracted: 03/18/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/23/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	47	U
319-85-7	beta-BHC	47	U
319-86-8	delta-BHC	47	U
58-89-9	gamma-BHC (Lindane)	47	U
76-44-8	Heptachlor	47	U
309-00-2	Aldrin	47	U
1024-57-3	Heptachlor epoxide	47	U
959-98-8	Endosulfan I	47	U
60-57-1	Dieldrin	94	U
72-55-9	4,4'-DDE	94	U
72-20-8	Endrin	94	U
33213-65-9	Endosulfan II	94	U
72-54-8	4,4'-DDD	94	U
1031-07-8	Endosulfan sulfate	94	U
50-29-3	4,4'-DDT	94	U
72-43-5	Methoxychlor	470	U
53494-70-5	Endrin ketone	94	U
5103-71-9	alpha-Chlordane	470	U
5103-74-2	gamma-Chlordane	470	U
8001-35-2	Toxaphene	940	U
12674-11-2	Aroclor-1016	470	U
11104-28-2	Aroclor-1221	470	U
11141-16-5	Aroclor-1232	470	U
53469-21-9	Aroclor-1242	470	U
12672-29-6	Aroclor-1248	470	U
11097-69-1	Aroclor-1254	82	J
11096-82-5	Aroclor-1260	940	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD-F4-2

Lab Name: U.S.T. CO. CLIENT: CENTURY LABS

Lab Code: US TEST Case No.: 10130 SAS No.: NA SDG No.: ~~[illegible]~~ NA

Matrix: (soil/water) SOIL Lab Sample ID: 10130-25 X 20

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 03/14/88

% Moisture: not dec. 61 dec. ____ Date Extracted: 03/18/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/23/88

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 20.0

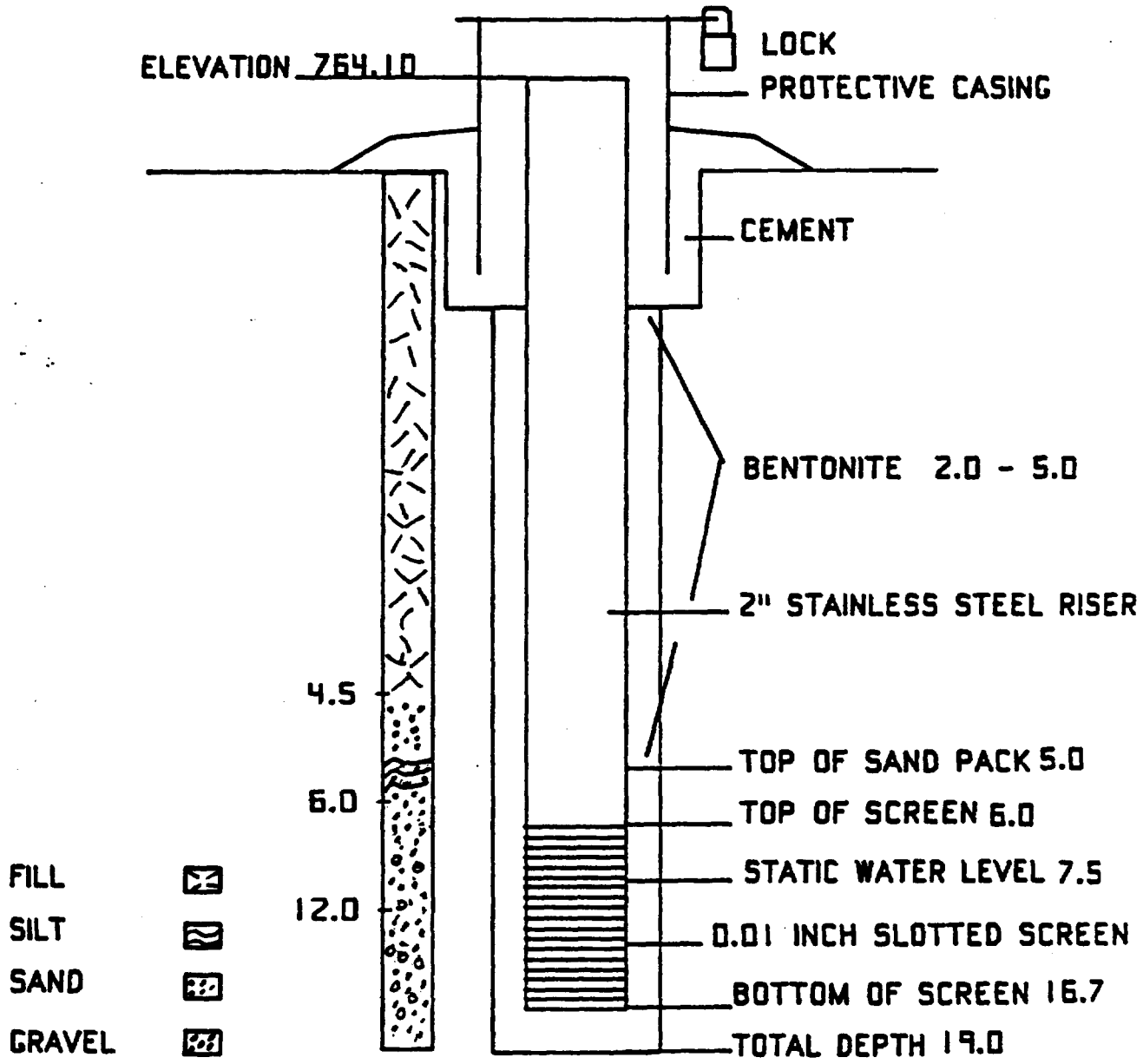
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	410	U
319-85-7	beta-BHC	410	U
319-86-8	delta-BHC	410	U
58-89-9	gamma-BHC (Lindane)	410	U
76-44-8	Heptachlor	410	U
309-00-2	Aldrin	410	U
1024-57-3	Heptachlor epoxide	410	U
959-98-8	Endosulfan I	410	U
60-57-1	Dieldrin	820	U
72-55-9	4,4'-DDE	820	U
72-20-8	Endrin	820	U
33213-65-9	Endosulfan II	820	U
72-54-8	4,4'-DDD	820	U
1031-07-8	Endosulfan sulfate	820	U
50-29-3	4,4'-DDT	820	U
72-43-5	Methoxychlor	4100	U
53494-70-5	Endrin ketone	820	U
5103-71-9	alpha-Chlordane	4100	U
5103-74-2	gamma-Chlordane	4100	U
8001-35-2	Toxaphene	8200	U
12674-11-2	Aroclor-1016	4100	U
11104-28-2	Aroclor-1221	4100	U
11141-16-5	Aroclor-1232	4100	U
53469-21-9	Aroclor-1242	16000	
12672-29-6	Aroclor-1248	4100	U
11097-69-1	Aroclor-1254	8200	U
11096-82-5	Aroclor-1260	4700	J

APPENDIX VI

Monitoring Well Construction Diagrams and Slug Test Data

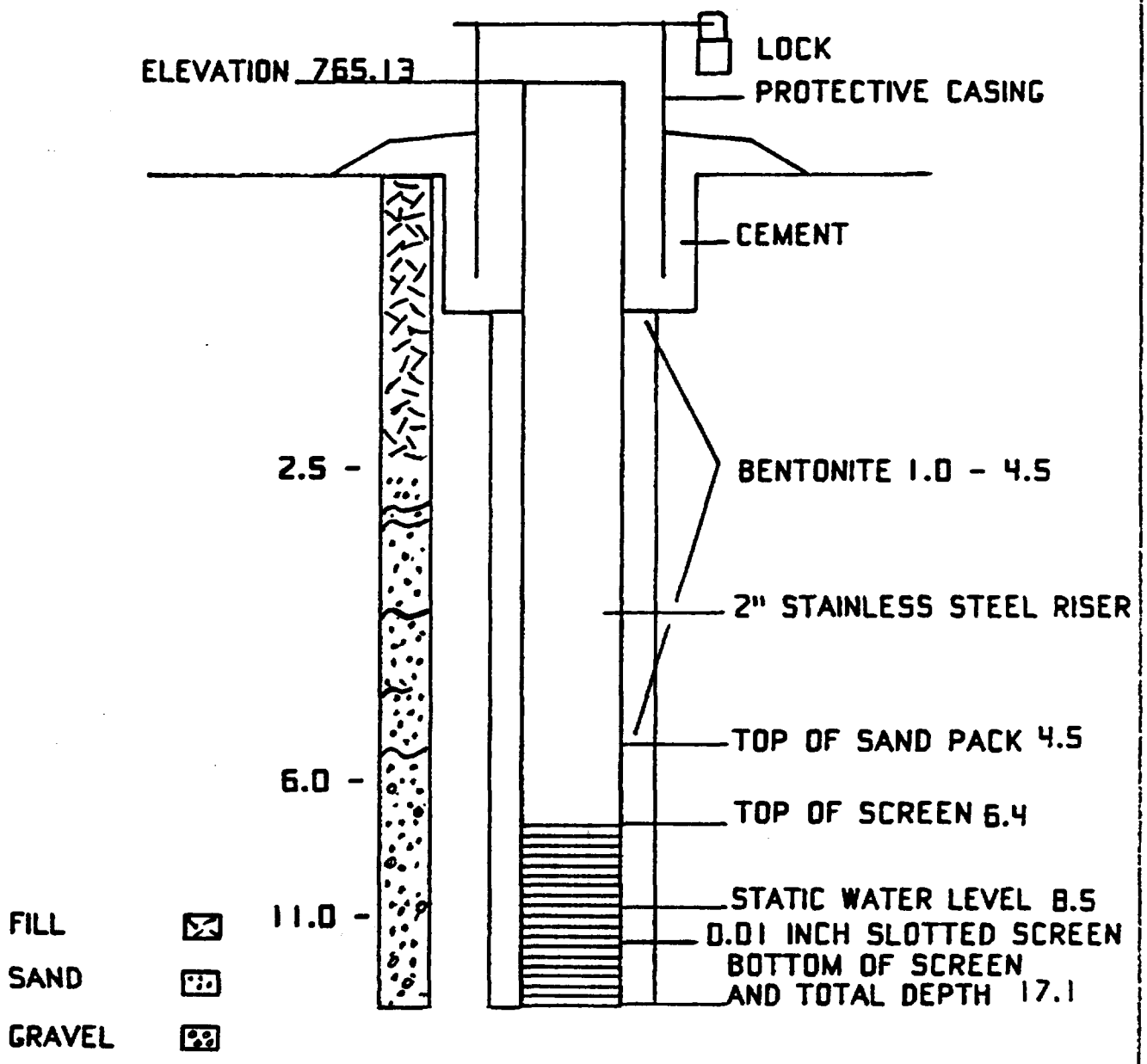
Well Construction Diagram For Monitoring Well W-1

Well Construction Details (Not to scale) 10/07/87
AUTO ION
FRED C. HART ASSOCIATES, INC



Well Construction Diagram For Monitoring Well W-2

Well Construction Details
(Not to scale) 10/23/87
AUTO ION
FRED C. HART ASSOCIATES, INC

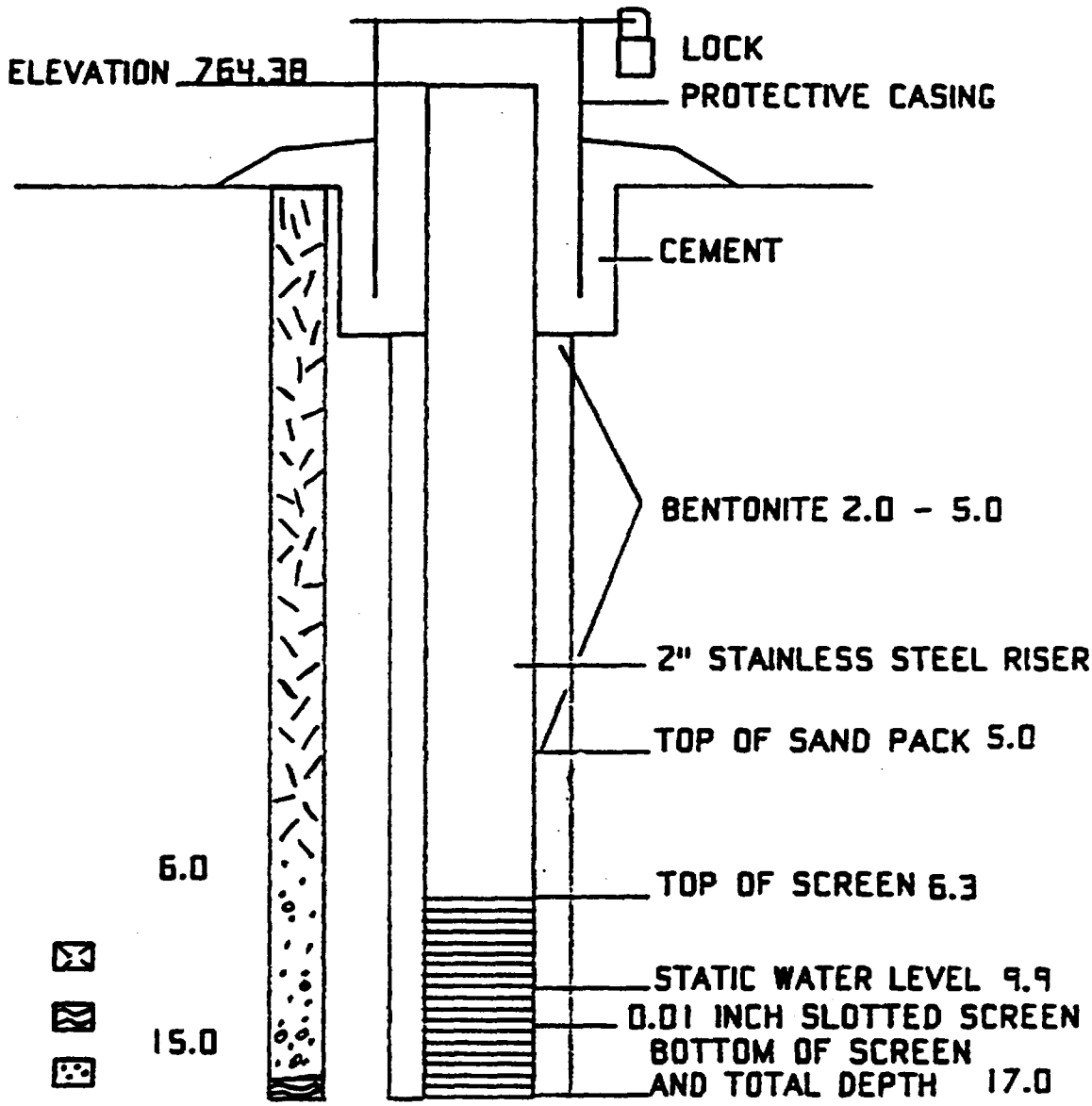


Well Construction Diagram For Monitoring Well W-3a

Well Construction Details
(Not to scale) 10/22/87

AUTO ION

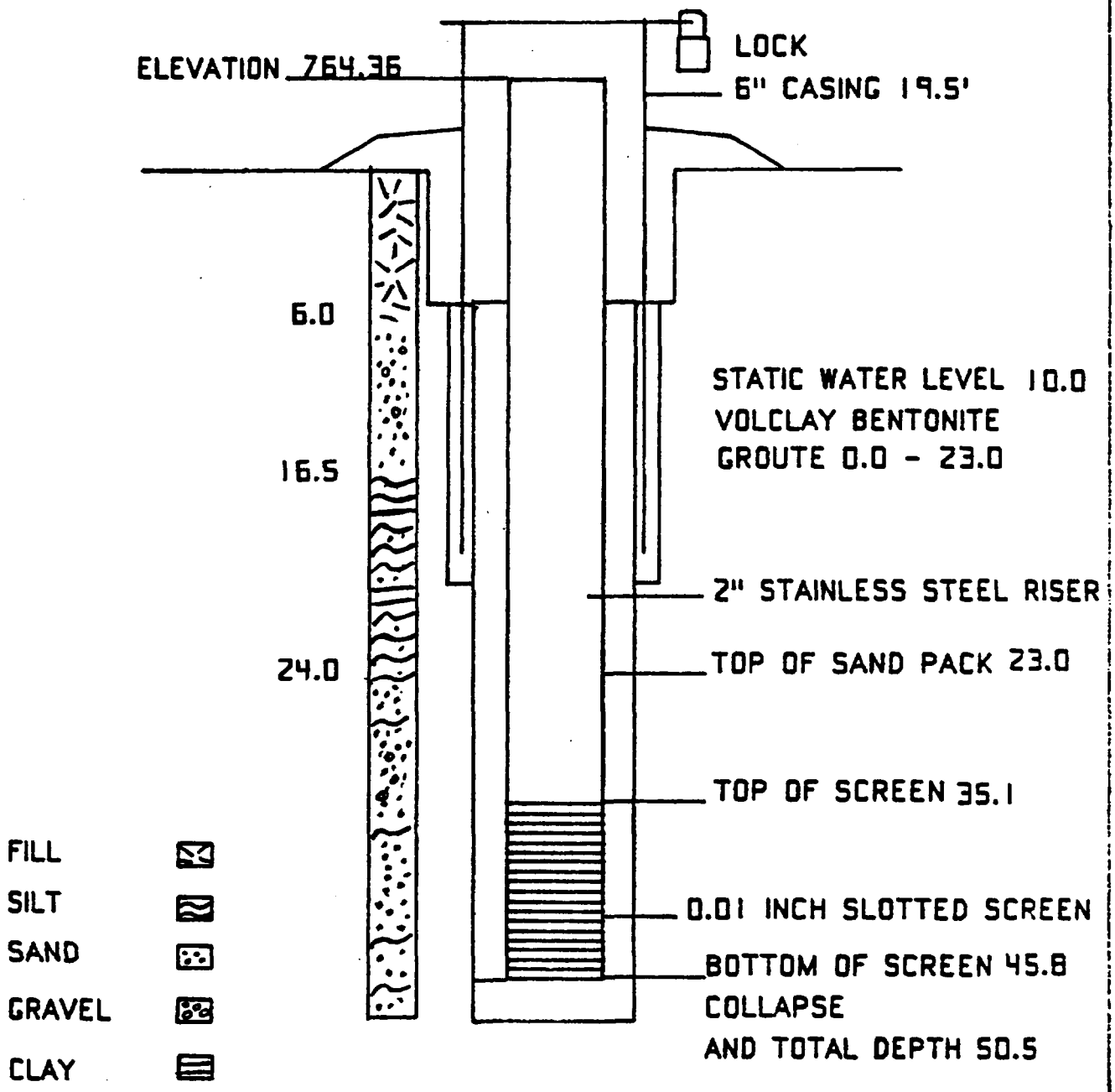
FRED C. HART ASSOCIATES, INC



FILL
SILT
SAND
GRAVEL
CLAY

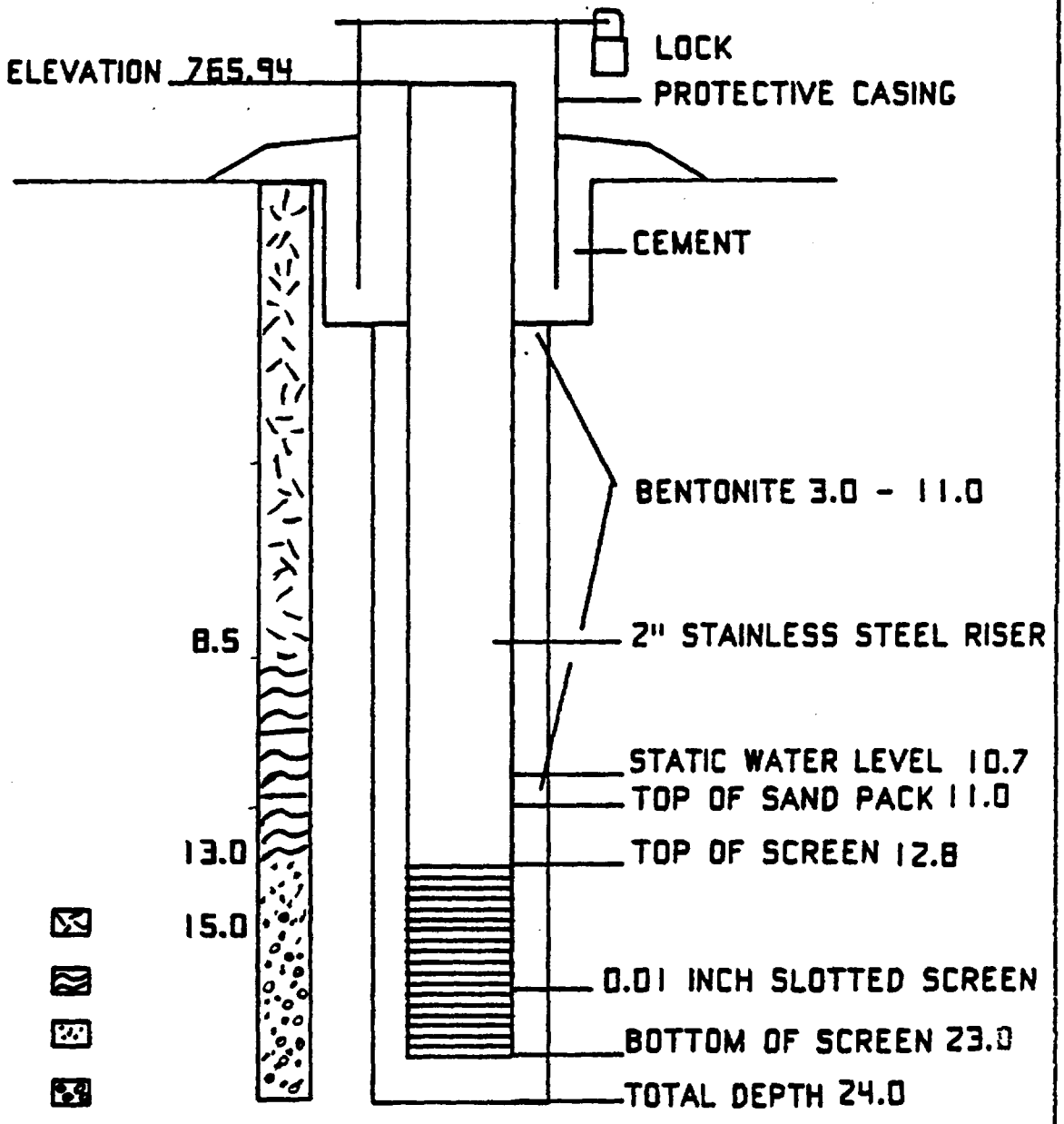
Well Construction Diagram For Monitoring Well W-3b

Well Construction Details
(Not to scale) 10/28/87
AUTO ION
FRED C. HART ASSOCIATES, INC



Well Construction Diagram For Monitoring Well W-6

Well Construction Details
(Not to scale) 10/14/87
AUTO ION
FRED C. HART ASSOCIATES, INC



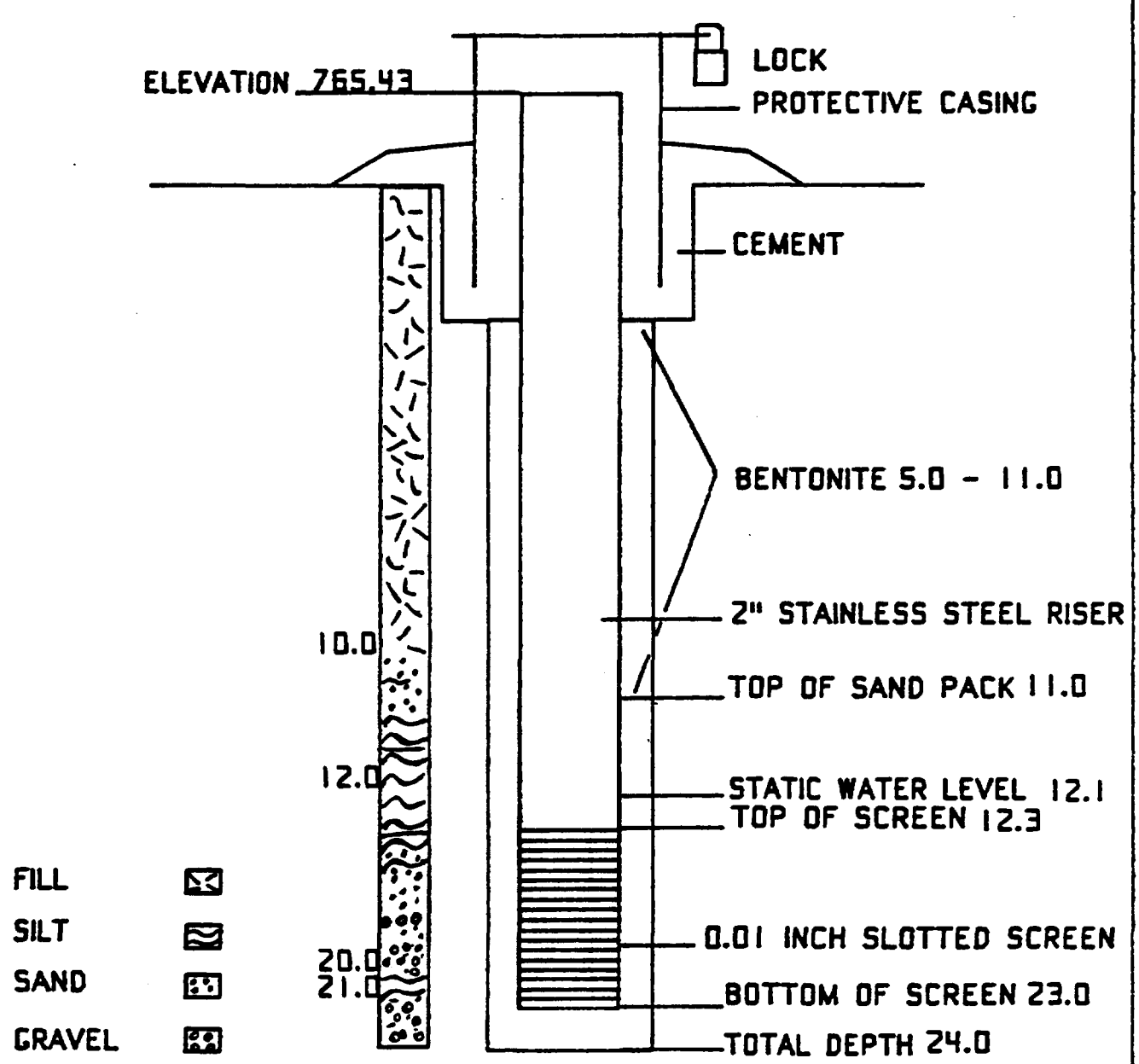
FILL
SILT
SAND
GRAVEL
CLAY

Well Construction Diagram For Monitoring Well W-4

Well Construction Details
(Not to scale) 10/15/87

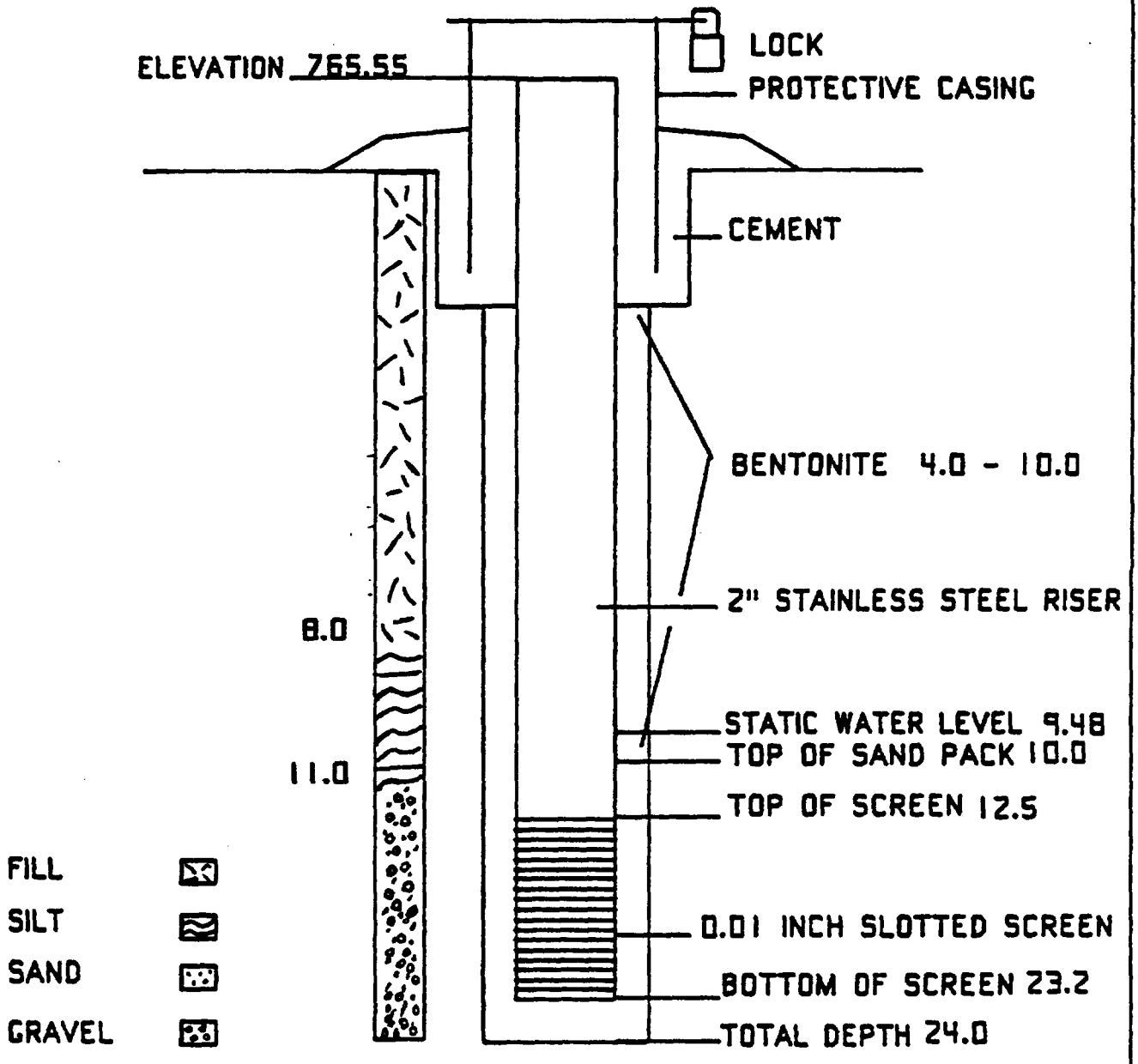
AUTO ION

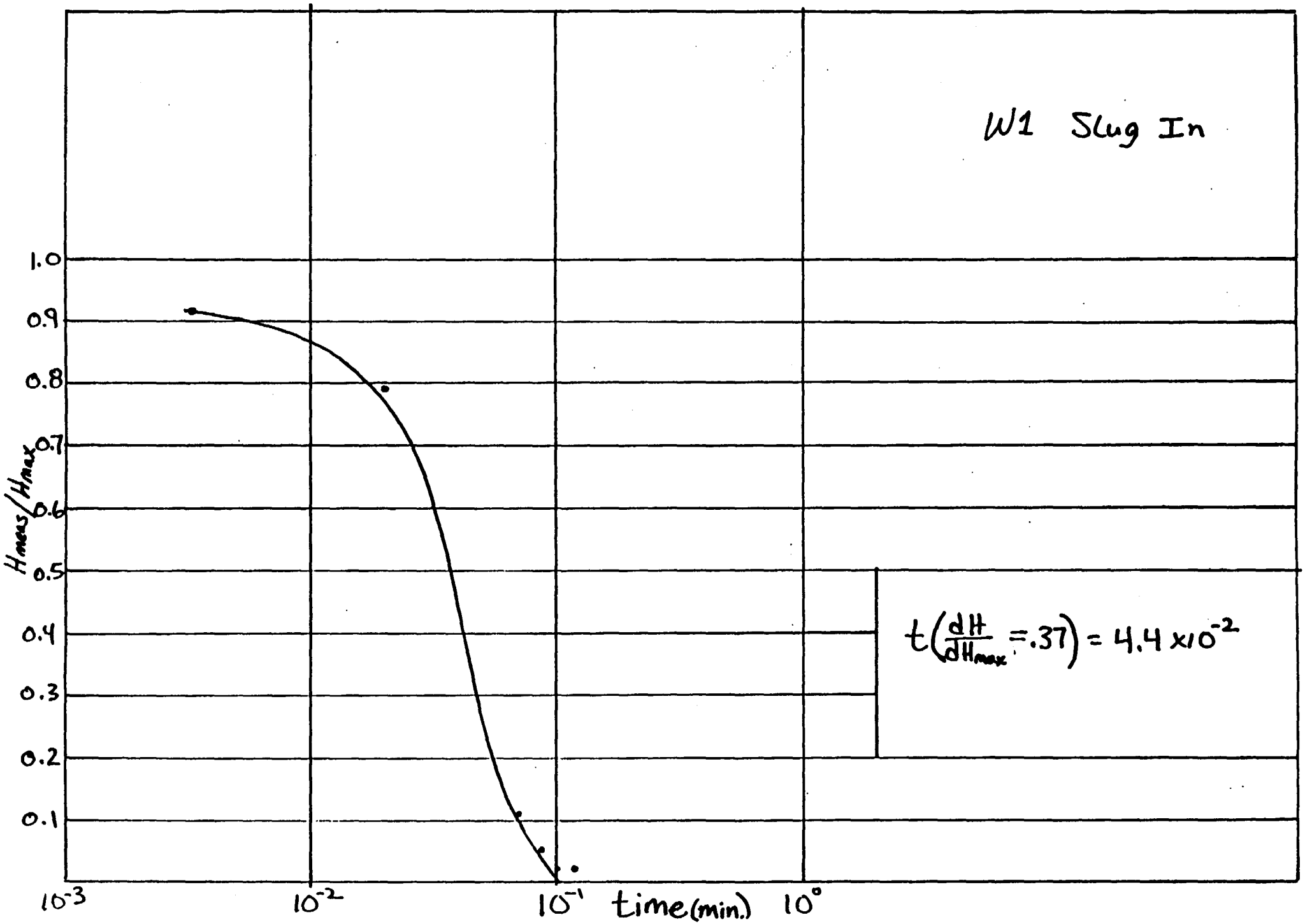
FRED C. HART ASSOCIATES, INC

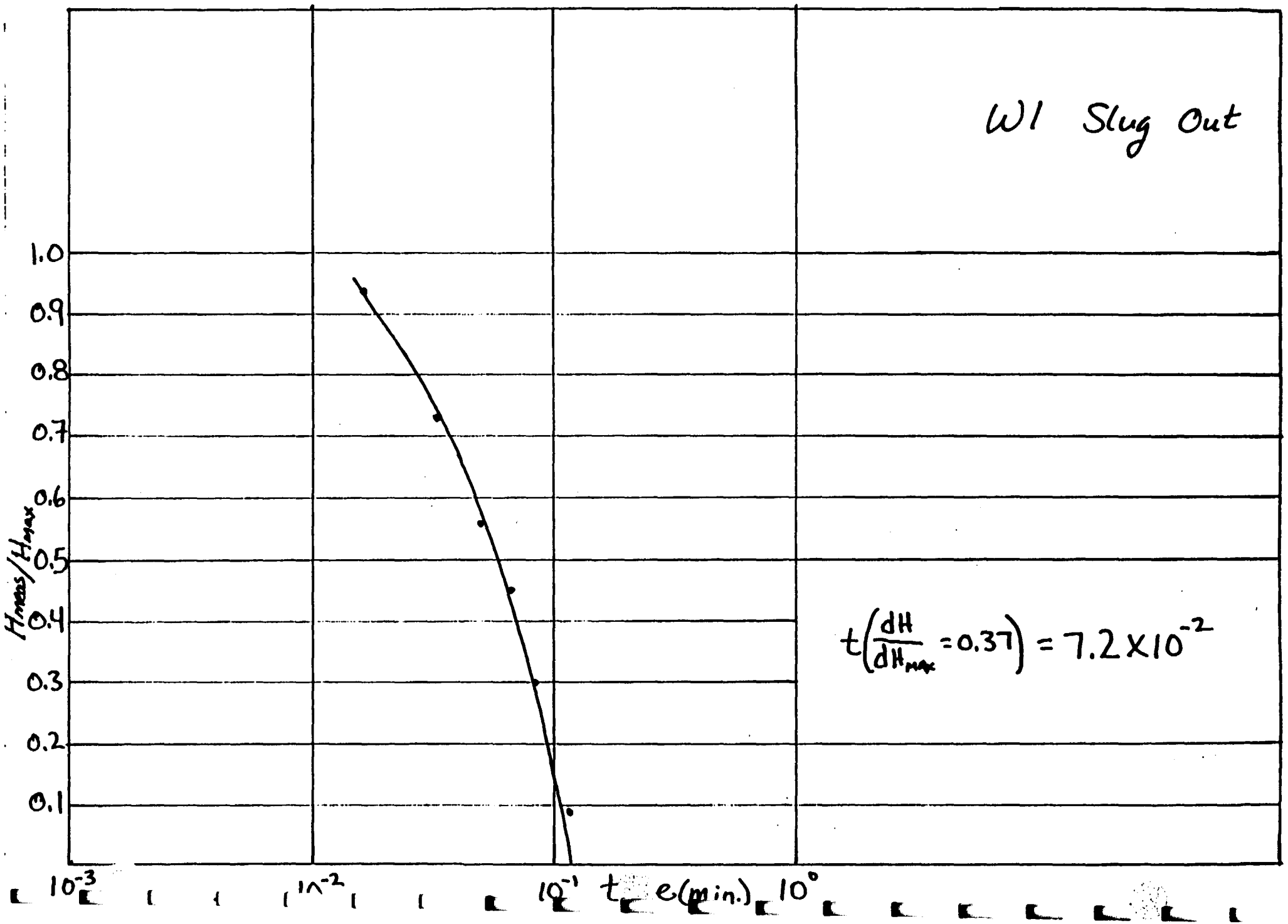


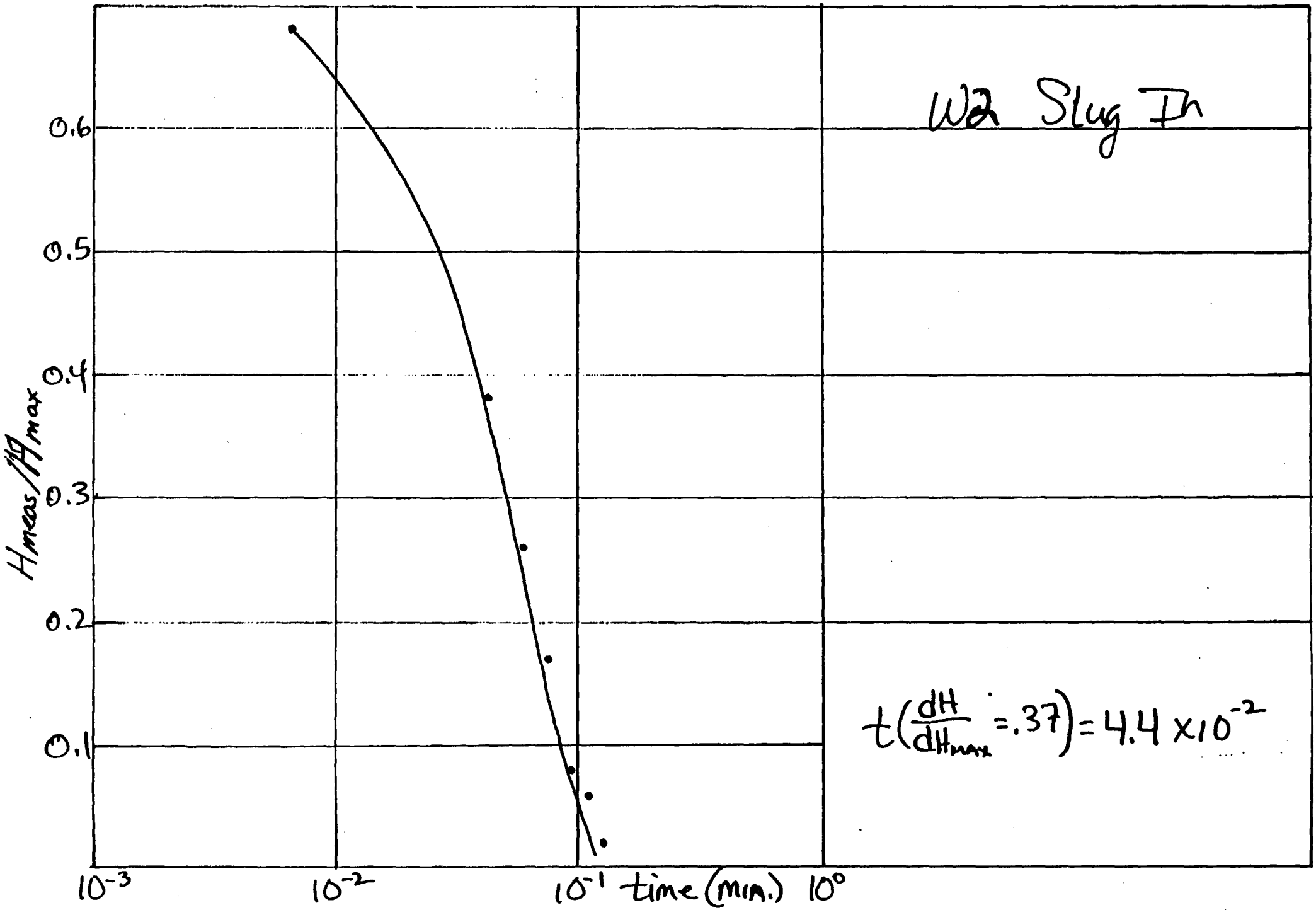
Well Construction Diagram For Monitoring Well W-5

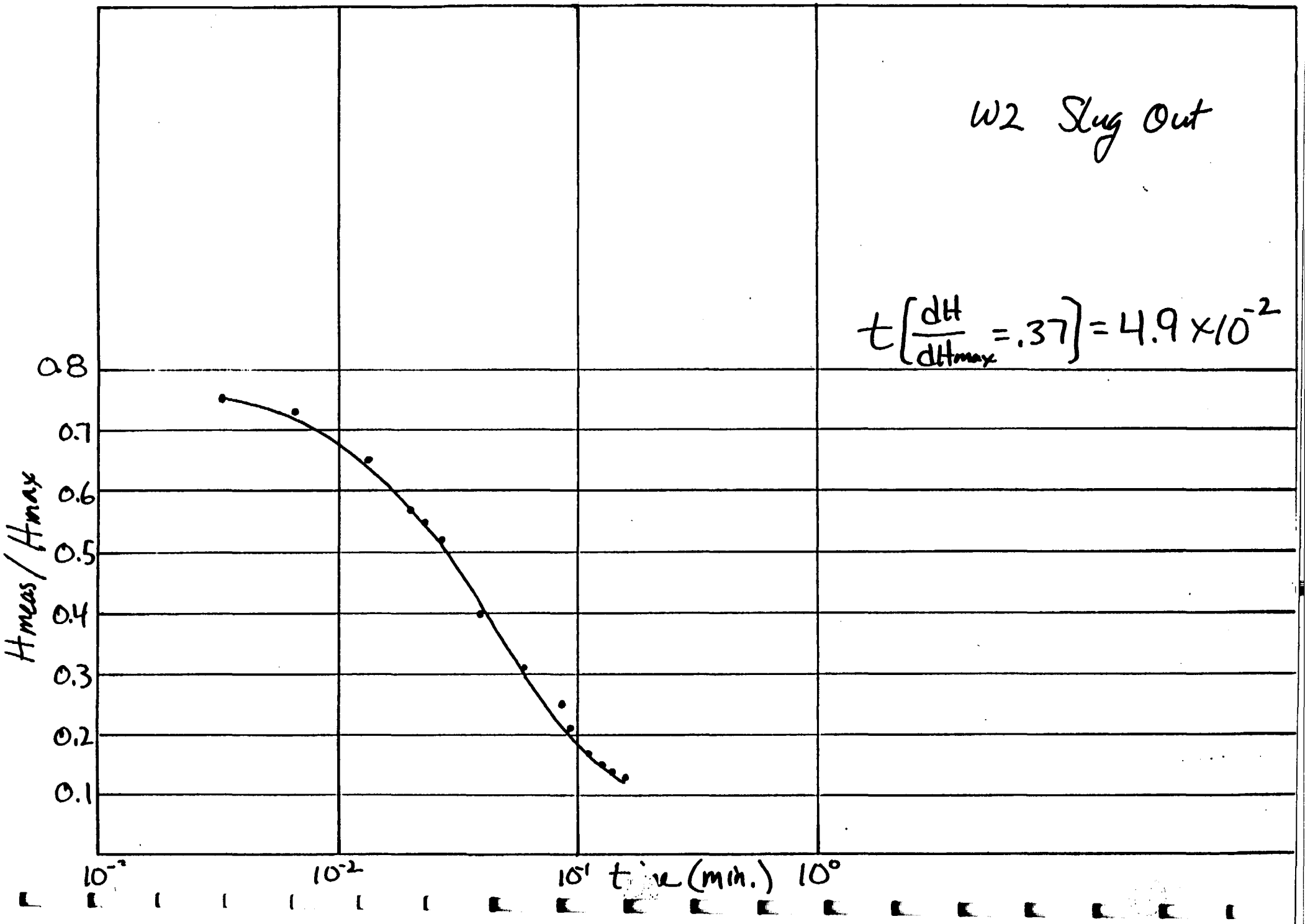
Well Construction Details (Not to scale) 10/14/87
AUTO ION
FRED C. HART ASSOCIATES, INC

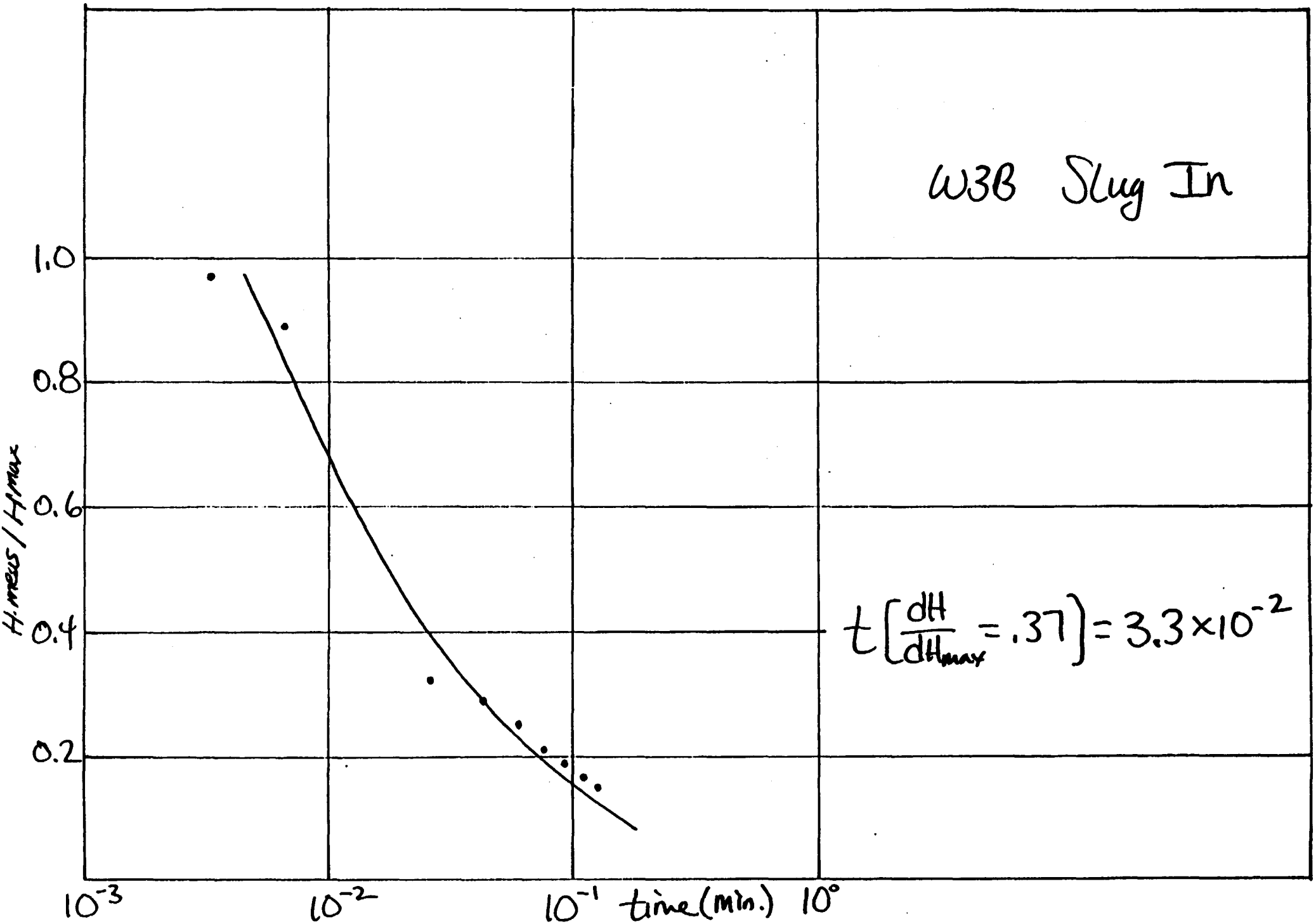


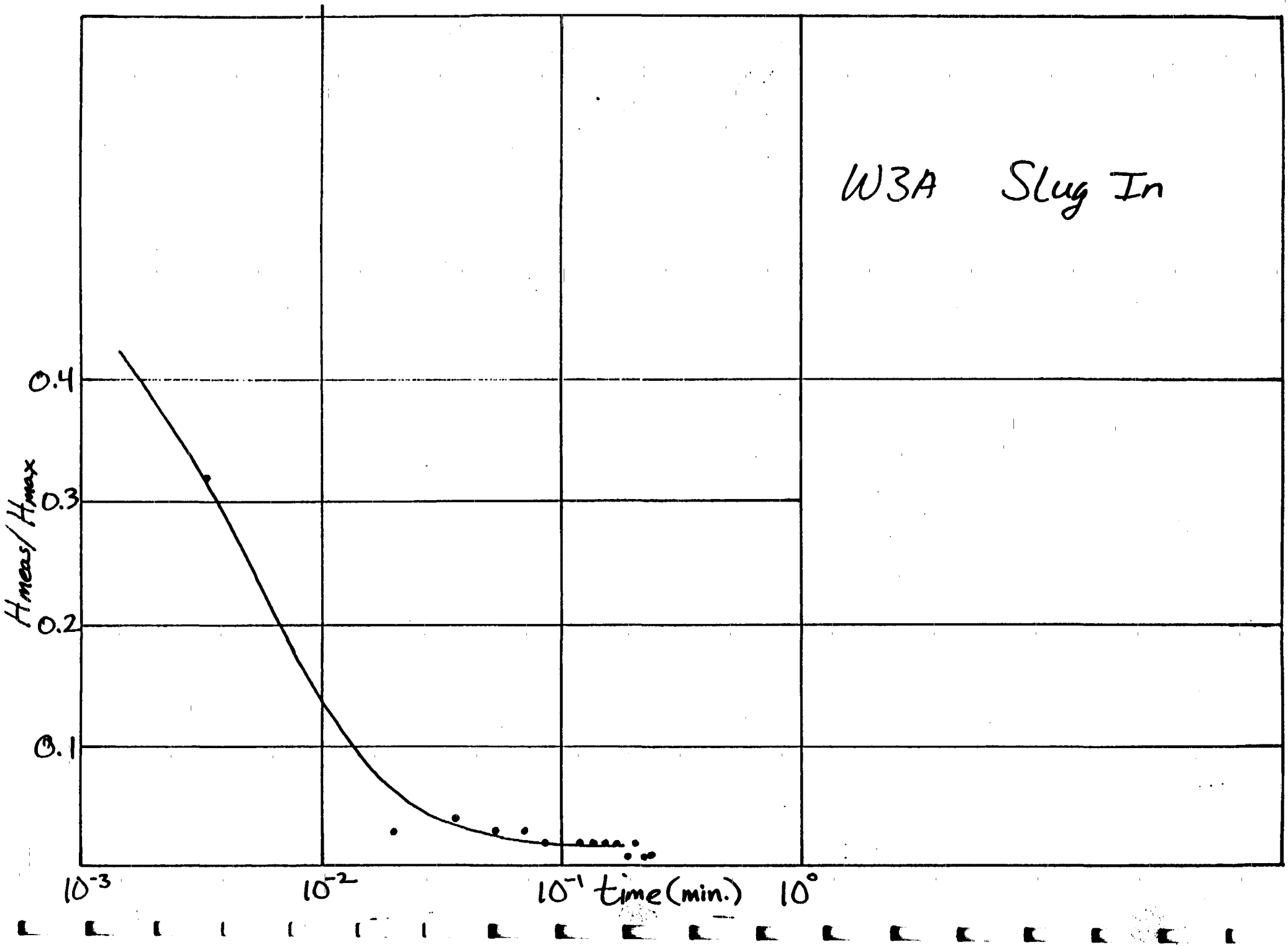

W1 Slug In
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
Hmeas/Hmax
10-3
10-2
10-1
time(min.)
10°
t(dH/dHmax = .37) = 4.4 x10-2

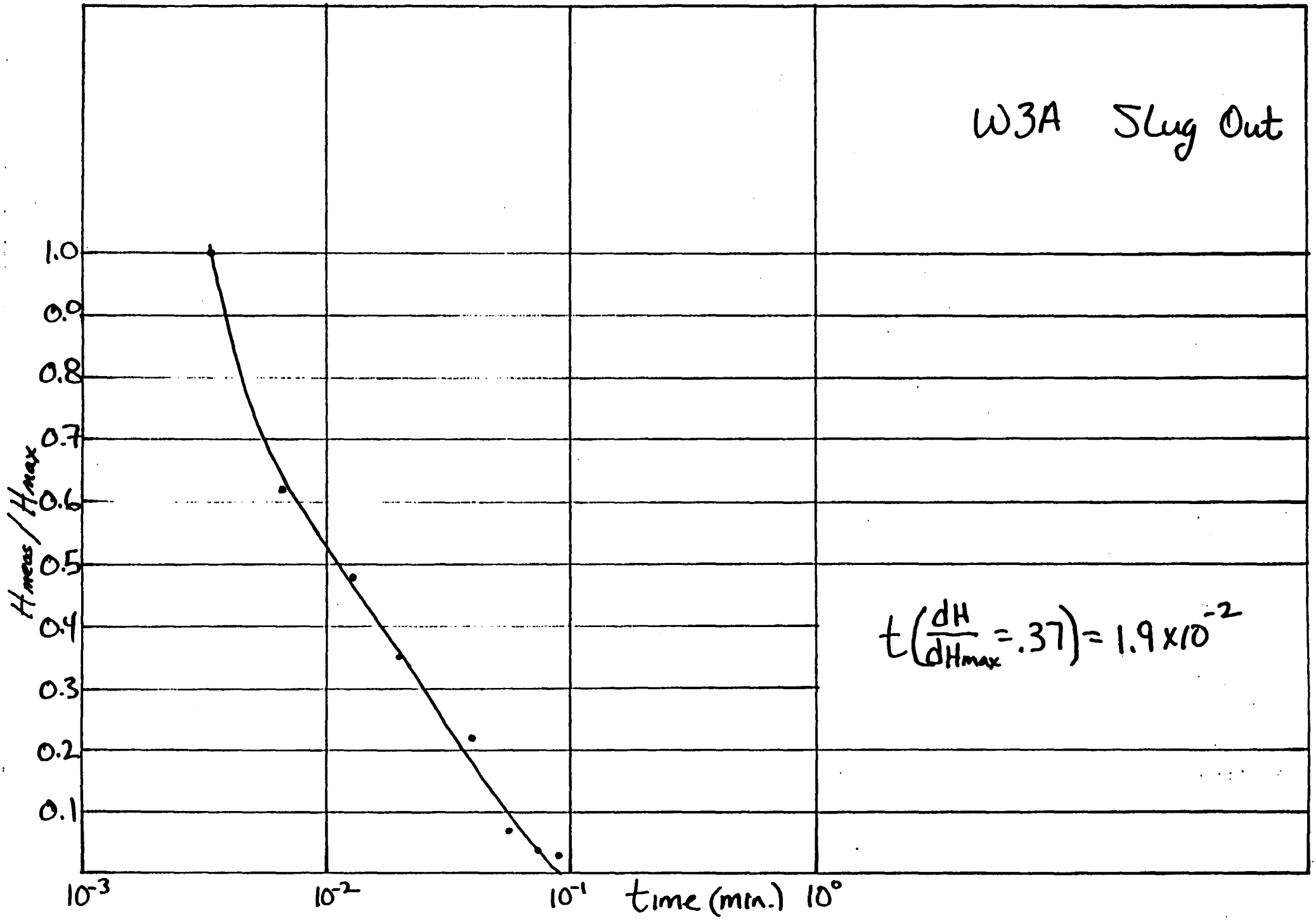

W1 Slug Out
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
H_{meas}/H_{max}
10^{-3}
10^{-2}
10^{-1}
10^{0}
t e(min.)
$t\left(\frac{dH}{dH_{max}} = 0.37\right) = 7.2 \times 10^{-2}$

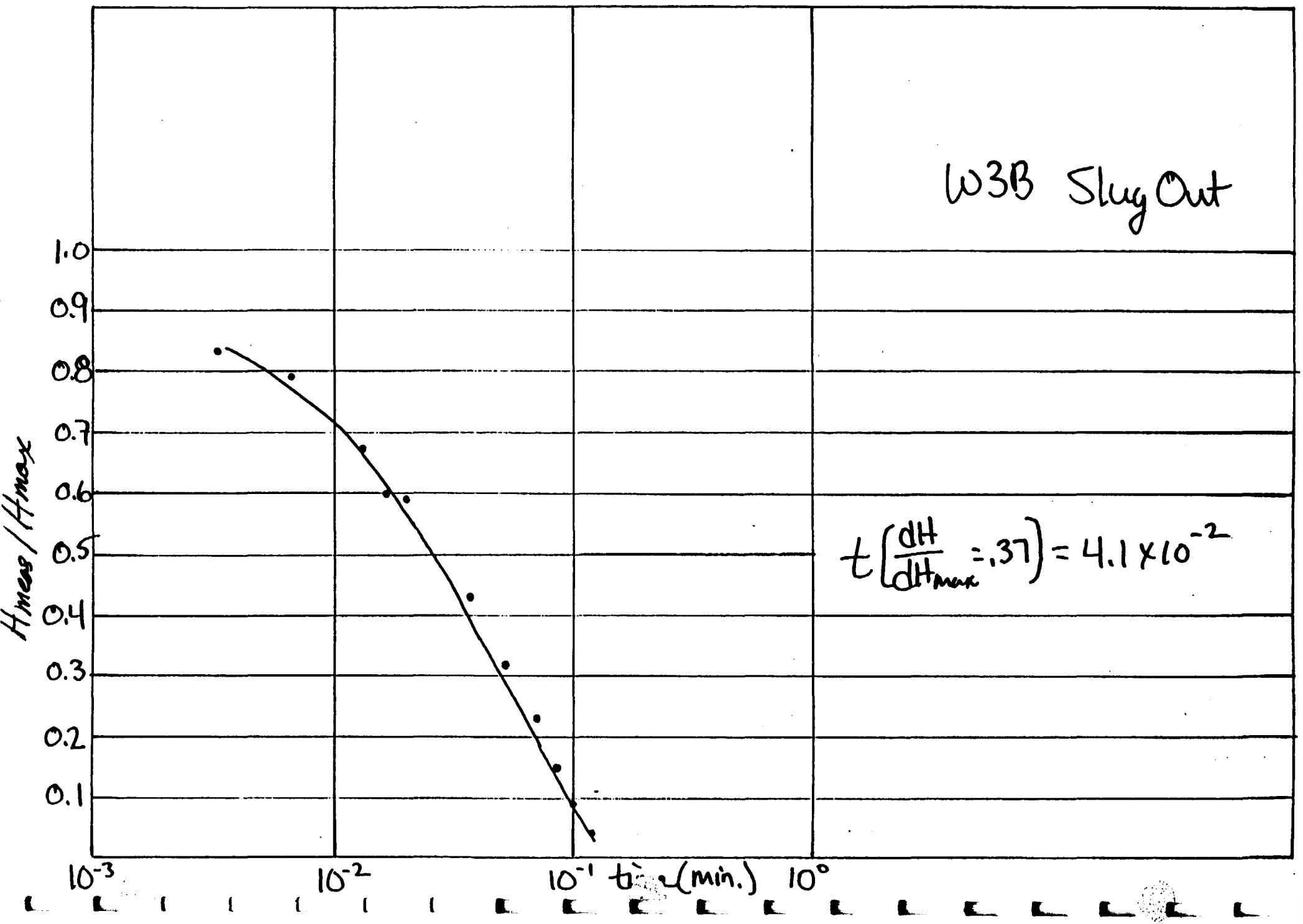

W2 Slug Th
0.6
0.5
0.4
0.3
0.2
0.1
Hmeas/Hmax
10^-3
10^-2
10^-1
10^0
time (min.)
t(dH/dHmax = .37) = 4.4 x 10^-2

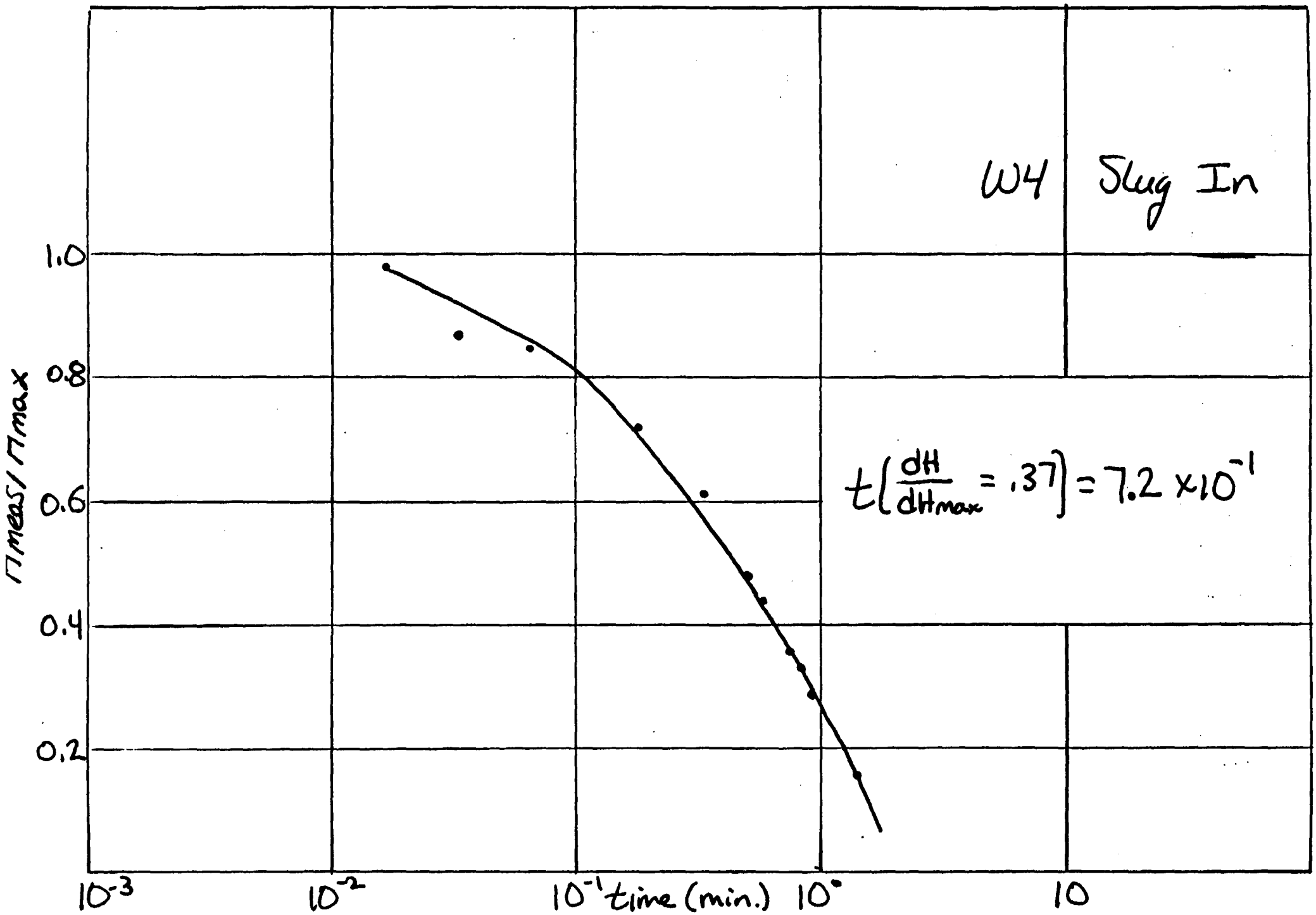

W2 Slug Out
$t\left[\frac{dH}{dH_{max}} = .37\right] = 4.9 \times 10^{-2}$
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
H_{meas}/H_{max}
10^{-3}
10^{-2}
10^{-1}
time (min.)
10^{0}

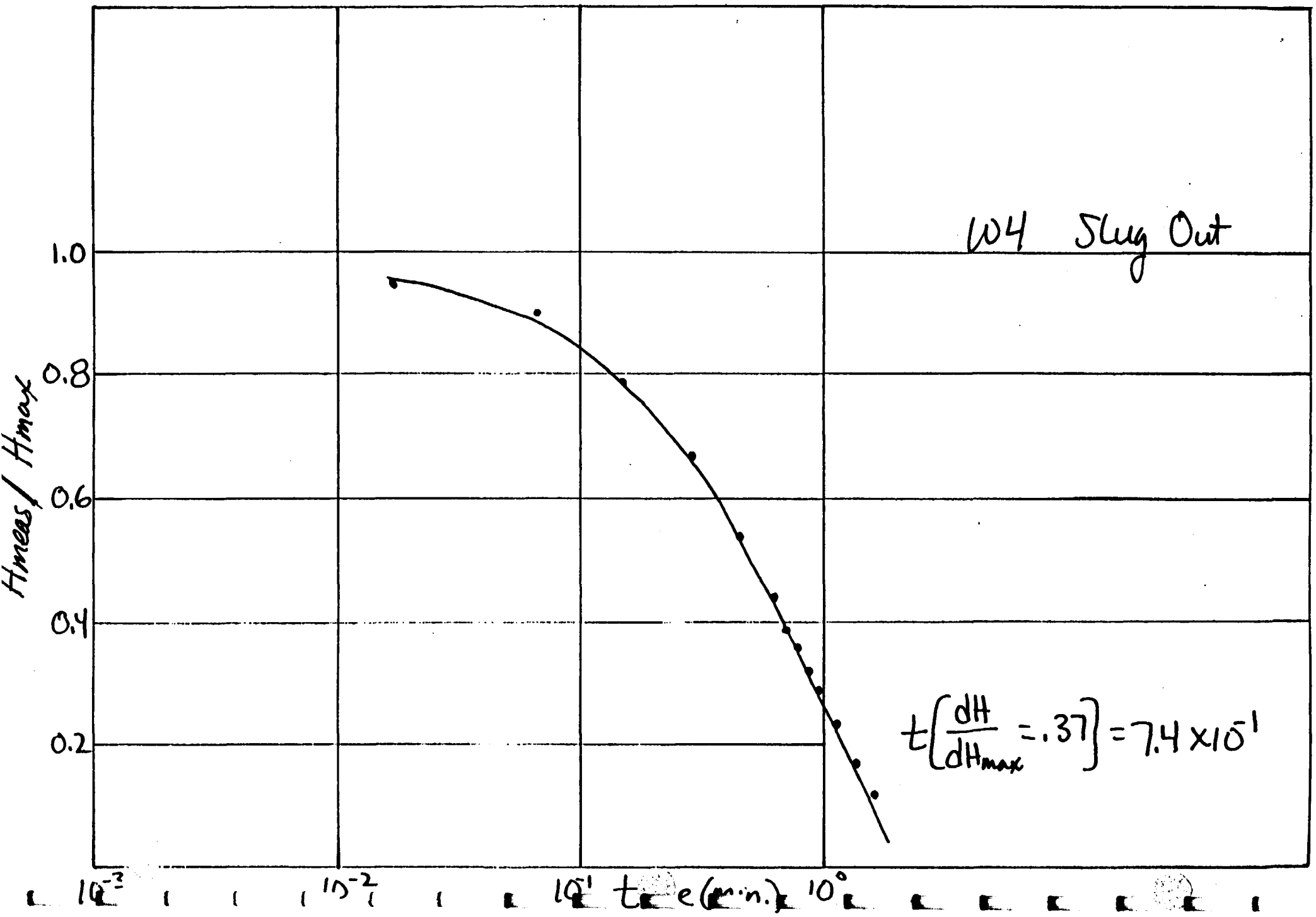

W3B Slug In
1.0
0.8
0.6
0.4
0.2
H meas / H max
$t\left[\frac{dH}{dH_{max}} = .37\right] = 3.3 \times 10^{-2}$
10^{-3}
10^{-2}
10^{-1}
time (min.)
10^{0}

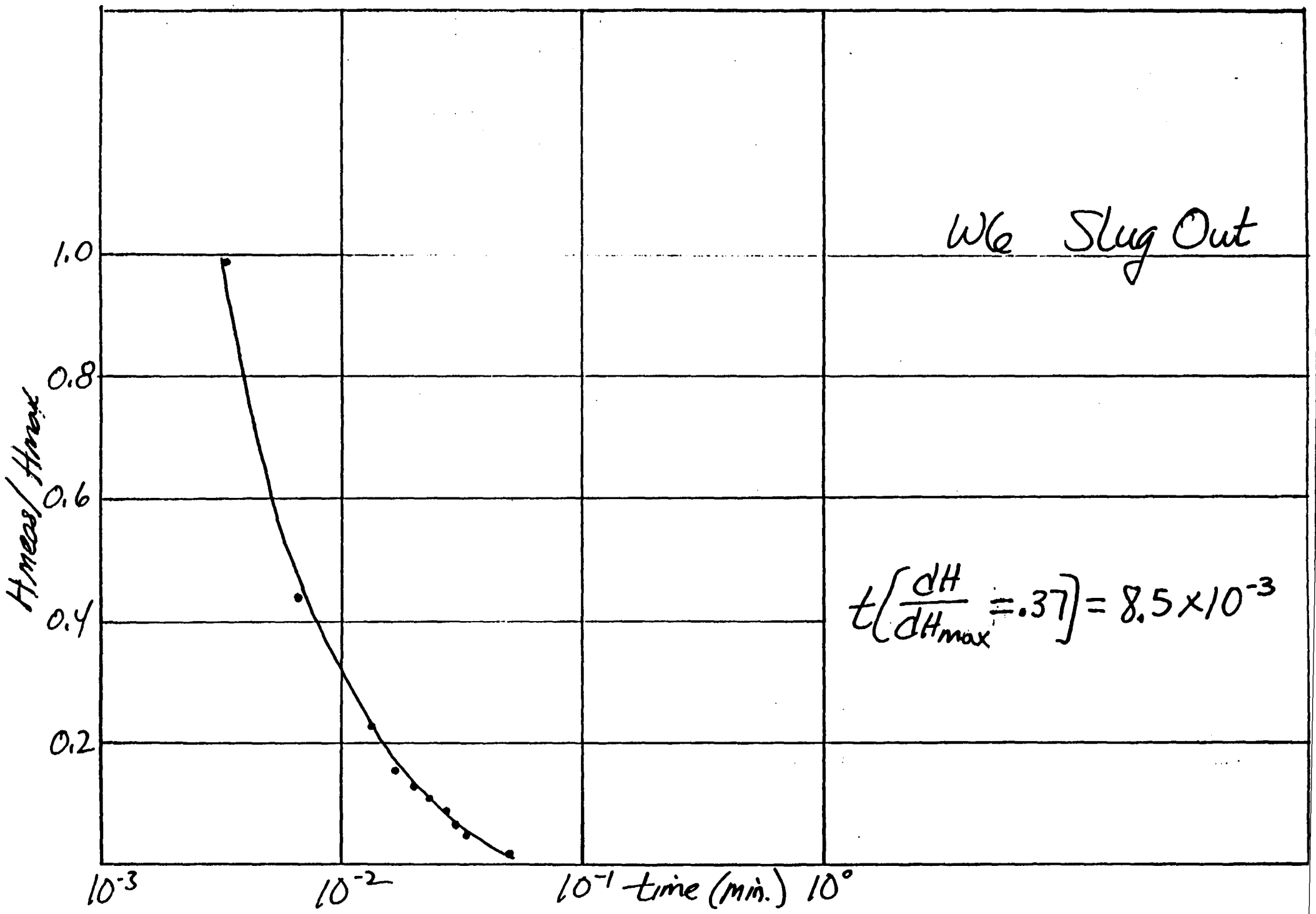

W3A Slug In
0.4
0.3
0.2
0.1
H_{meas}/H_{max}
10^{-3}
10^{-2}
10^{-1}
time (min.)
10^{0}


W3A Slug Out
$t\left(\frac{dH}{dH_{max}} = .37\right) = 1.9 \times 10^{-2}$
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
H_{meas}/H_{max}
10^{-3}
10^{-2}
10^{-1}
time (min.)
10^{0}


W3B Slug Out
$t\left(\frac{dH}{dH_{max}} = .37\right) = 4.1 \times 10^{-2}$
H_{meas}/H_{max}
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
10^{-3}
10^{-2}
10^{-1}
time (min.)
10^{0}


W4
Slug In
$t\left(\frac{dH}{dH_{max}} = .37\right) = 7.2 \times 10^{-1}$
1.0
0.8
0.6
0.4
0.2
H_{meas}/H_{max}
10^{-3}
10^{-2}
10^{-1}
time (min.)
10^{0}
10


W4 Slug Out
1.0
0.8
0.6
0.4
0.2
Hmeas / Hmax
10^{-3}
10^{-2}
10^{-1}
10^{0}
time (min.)
$t\left[\frac{dH}{dH_{max}} = .37\right] = 7.4 \times 10^{-1}$


W6 Slug Out
$t\left[\frac{dH}{dH_{max}} = .37\right] = 8.5 \times 10^{-3}$
1.0
0.8
0.6
0.4
0.2
H_{meas}/H_{max}
10^{-3}
10^{-2}
10^{-1}
time (min.)
10^{0}

APPENDIX VII

NPDES Permits

Permit No. MI0023299

MICHIGAN WATER RESOURCES COMMISSION
AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 U.S.C. 1251 et seq; the "Act"), Michigan Act 98, Public Acts of 1913, as amended, being sections 325.201 through 325.214 of the Compiled Laws of Michigan, and the Michigan Water Resources Commission Act, as amended, (Act 245, Public Acts of 1929, as amended being sections 323.1 through 323.13 of the Compiled Laws of Michigan, the Michigan Act")

the City of Kalamazoo

is authorized to discharge from a facility located at 1415 North Harrison, Kalamazoo, Michigan

designated as the Kalamazoo WWTP

to the receiving water named the Kalamazoo River in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I and II hereof.

This permit modification takes effect immediately upon the date of modification. Any person who feels aggrieved by the modifications herein may file a sworn petition with the Commission setting forth the conditions of the permit which are being challenged and specifying the grounds for the challenge. The Commission may reject any petition filed more than 60 days after modification as being untimely. Upon granting of a contested case to the applicant, the Commission shall review the permit to determine which contested terms shall be stayed until the Commission takes its final action. All other conditions of the permit remain in full effect. If the contested condition is a modification of a previous permit condition and the Commission determines the contested condition shall be stayed, then such previous condition remains in effect until the Commission takes final action. During the course of any administrative proceeding brought by a person other than the applicant, the conditions of this permit will remain in effect, unless the Commission determines otherwise.

This permit and the authorization to discharge shall expire at midnight, August 31, 1989. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Michigan Water Resources Commission no later than 180 days prior to the date of expiration.

This permit is based on an application dated June 1, 1982, and shall supersede any and all Orders of Determination, Stipulations, Final Orders of Determination, or NPDES Permits previously adopted by the Michigan Water Resources Commission concerning the described discharge(s).

Issued this 25th day of September 1984, and modified this 18th day of July 1986, and modified this 17th day of December 1987, by the Michigan Water Resources Commission.

Paul D. Zugger
Executive Secretary

PERMIT CONDITIONS

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS.

1. Interim Effluent Limitations

a. During the period beginning on the date of issuance and lasting until December 31, 1985 the permittee is authorized to discharge treated municipal wastewaters from the Kalamazoo wastewater treatment plant through outfall 001 to the Kalamazoo River. Such discharges shall be limited and monitored by the permittee as follows:

EFFLUENT CHARACTERISTICS	DATES IN EFFECT	LOAD LIMITATIONS		CONCENTRATION LIMITATIONS		MONITORING REQUIREMENTS
		30 Day Average	7 Day Average	30 Day Average	7 Day Average	Testing Frequency
5-Day 20°C Biochemical Oxygen Demand	All Year	6793 kg/day 15012 lb/day	10189 kg/day 22518 lb/day	60 mg/l	90 mg/l	Daily
Suspended Solids	All Year	10755 kg/day 23769 lb/day	19812 kg/day 43785 lb/day	95 mg/l	175 mg/l	Daily
Total Phosphorus (as P)	All Year	---	---	3.0 mg/l	---	Daily
Fecal Coliform Bacteria	All Year	---	---	200/100 ml	400/100 ml	Daily
				Daily Min.	Daily Max.	
pH	All Year	---	---	6.0	9.0	Daily

b. All samples shall be 24 hour composite samples taken prior to disinfection except Fecal Coliform Bacteria, Total Residual Chlorine, Dissolved Oxygen, and pH which shall be grab samples of the effluent.

c. The total daily effluent flow shall be measured daily.

d. During the periods that Coliform Bacteria Limitations are in effect, the permittee shall provide adequate control and facilities to ensure continuous disinfection.

PERMIT CONDITIONS

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS.

2. Final Effluent Limitations

a. During the period beginning January 1, 1986 and lasting until date of expiration the permittee is authorized to discharge treated municipal wastewaters from the Kalamazoo wastewater treatment plant through outfall 001 to the Kalamazoo River. Such discharges shall be limited and monitored by the permittee as follows:

EFFLUENT CHARACTERISTICS	DATES IN EFFECT	EFFLUENT LIMITATIONS				TESTING FREQUENCY
		Minimum	Maximums			
		Daily	Daily	30 Day Avg.	7 Day Avg.	
Carbonaceous 5-Day 20° C Biochemical Oxygen Demand	May 1 to Sept. 30	---	10 mg/l	7 mg/l 1408 kg/day 3112 lb/day	2011 kg/day 4445 lb/day	Daily
	Oct. 1 to Oct. 31	---	15 mg/l	10 mg/l 2011 kg/day 4445 lb/day	3017 kg/day 6668 lb/day	Daily
5-Day 20°C Biochemical Oxygen Demand	Nov. 1 to April 30	---	---	30 mg/l 6034 kg/day 13336 lb/day	45 mg/l 9051 kg/day 20003 lb/day	Daily
Ammonia Nitrogen (as N)(NH_3-N)	May 1 to Sept. 30	---	2.0 mg/l	---	402 kg/day 889 lb/day	Daily
	Oct. 1 to Oct. 31	---	10.0 mg/l	---	2011 kg/day 4445 lb/day	Daily
Suspended Solids	May 1 to Sept. 30	---	---	20 mg/l 4023 kg/day 8890 lb/day	30 mg/l 6034 kg/day 13336 lb/day	Daily
	Oct. 1 to April 30	---	---	30 mg/l 6034 kg/day 13336 lb/day	45 mg/l 9051 kg/day 20003 lb/day	Daily
pH	All Year	6.0	9.0	---	---	Daily
Dissolved Oxygen	All Year	4.0 mg/l	---	---	---	Daily
Fecal Coliform Bacteria	May 15 to Oct. 15	---	---	200/100 ml	400/100 ml	Daily
Total Phosphorus (as P)	All Year	---	---	1.0 mg/l 225 lb/day*	---	Daily
Total Residual Chlorine	All Year beginning 1-1-91	---	0.036 mg/l	---	---	Daily during periods of disinfection

The following design flows were used in determining the above limitations, but are not to be considered limitations or actual capacities themselves: Annual Average Design Flow of 53.3 MGD

FEL

PERMIT CONDITIONS

PART I, Section A-2

EFFLUENT CHARACTERISTICS	DATES IN EFFECT	EFFLUENT LIMITATIONS				TESTING FREQUENCY
		Minimum	Maximums			
		Daily	Daily	30-Day Avg.	7-Day Avg.	
Total Cadmium	All Year	---	---	---	---	2 x monthly
	All Year beginning 1/1/88	---	15 ug/l	1.6 ug/l	---	2 x monthly
Total Lead	All Year	---	---	---	---	2 x monthly
	All Year beginning 1/1/88	---	114 ug/l	24 ug/l	---	2 x monthly
Total Silver	All Year	---	---	---	---	2 x monthly
	All Year beginning 1/1/88	---	0.8 ug/l	---	---	2 x monthly
Amenable Cyanide	All Year	---	---	---	---	2 x monthly
	All Year beginning 1/1/88	---	91 ug/l	10 ug/l	---	2 x monthly
1,2-dichloro-ethane	All Year	---	---	see h.	---	1 x quarterly

PART I, Section A-2

b. All samples shall be 24 hour composite samples taken prior to disinfection except Fecal Coliform Bacteria, Total Residual Chlorine, Dissolved Oxygen, and pH which shall be grab samples of the effluent.

c. The total daily effluent flow shall be measured daily.

d. During the period that Coliform Bacteria Limitations are in effect, the permittee shall provide adequate control and facilities to ensure continuous disinfection.

e. The carbonaceous BOD_5 limitation shall be considered as BOD_5 excluding the oxygen demand attributable to nitrification.

f. Demonstration Opportunity Regarding Total Residual Chlorine

(1) Final Acute Value - The permittee may demonstrate to the Michigan Water Resources Commission that a total residual chlorine limitation greater than the final acute value of 0.036 mg/l is acceptable under the Water Quality Standards. Such demonstration may establish that: a) fish cannot physically inhabit the zone where concentrations of total residual chlorine are greater than 0.036 mg/l, b) toxicity tests, using species and/or water more representative of the discharge point, result in a higher final acute value, c) there is extremely high and immediate dilution, or d) other rationale warrants a less restrictive limitation for total residual chlorine.

(2) Compliance Deadline - The permittee may demonstrate to the Michigan Water Resources Commission that it is necessary and appropriate to postpone the effective date of the total residual chlorine limitation considering the present efficiency of disinfection, age of chlorination equipment and the economic and technical feasibility of compliance.

(3) Demonstration Notification - The permittee shall notify the Surface Water Quality Division if a demonstration under (1) or (2) above will be attempted. The notification shall include a work plan for completion of the demonstration. The effective date of the total residual chlorine limitation shall not be stayed pending the demonstration project.

g. In addition to the BOD_5 and Total Suspended Solids limitations above, the 30-day average effluent BOD_5 and Total Suspended Solids concentrations shall not exceed 15 percent of the average influent concentrations for approximately the same period. This requirement is in effect November 1 through April 30 of each year.

h. Compliance with the Total Residual Chlorine limit shall be determined on the basis of one or more grab samples. If more than one sample per day is taken, the additional samples shall be collected in near equal intervals over at least 8 hours. The samples shall be analyzed immediately upon collection and the average reported as the daily maximum. The level of detection shall be determined for the analytical method used by following the procedures prescribed in 40 CFR 136 Appendix B. The reported level of detection shall not exceed 0.036 mg/l unless a higher level is appropriate because of sample matrix interference.

PART I, Section A-2

i. The discharger shall notify the Chief of the Surface Water Quality Division in writing within 10 days of any discharge of 1,2 dichloroethane at or above the level of 200 ug/l. This parameter shall be monitored at least quarterly.

If the above notification level is exceeded, the permittee shall promptly commence, unless otherwise notified by the Chief of the Surface Water Quality Division, an investigation into the cause of the discharge. The investigation shall include weekly sampling for 6 weeks. A report shall be submitted to the Chief of the Surface Water Quality Division within 4 months of the notification date containing the 6 weeks monitoring data, and the permittee's explanation as to the cause, steps taken to correct the situation, and the likelihood of reoccurrence of the discharge, and any modification to existing treatment and control.

j. Demonstration Opportunity Regarding Total Cadmium, Lead, Silver and Amenable Cyanide

The permittee may demonstrate to the Michigan Water Resources Commission that a total cadmium, lead, silver, or amenable cyanide limitation greater than the value listed in the final effluent limitations is acceptable under the Water Quality Standards. Such a demonstration may extablish that: a) fish cannot physically inhabit the zone where concentrations of total cadmium, lead, silver, or amenable cyanide are greater than the listed limit, b) toxicity tests, using species and/or water more representative of the discharge point, result in a higher aquatic criteria, or c) other rationale warrants different final effluent limitations, including whole effluent toxicity based limitations.

The permittee shall notify the Michigan Water Resources Commission when a demonstration will be attempted. When a demonstration is to be attempted, the notification shall include a work plan and schedule for completion of the demonstration which shall be approved by the Chief of the Surface Water Quality Division. The effluent limits contained on page 4 of 23 take effect January 1, 1988, unless this permit is modified by the Water Resources Commission.

*It is recognized that the City of Kalamazoo will be undertaking studies regarding the discharge of phosphorus from its wastewater treatment plant. The studies will include a program to identify the sources of phosphorus to the treatment plant, what phosphorus reductions are possible, and what resultant phosphorus reductions may be expected in the wastewater treatment plant effluent. In addition, the City of Kalamazoo will be studying the effects of its discharge on the Kalamazoo River with respect to nutrient loadings and resultant nuisance plant growths. Upon completion of the studies, the City of Kalamazoo will submit to the Chief of the Surface Water Quality Division a report which summarizes the findings of the studies. Following review of this new information, staff may recommend to the Water Resources Commission that the phosphorus limitation be revised and the permit modified accordingly.

PART I, Section A-2

k. The December 17, 1987 modifications to this permit are intended to provide the permittee sufficient time to both (1) perform a demonstration pursuant to the "Demonstration Opportunity Regarding Total Residual Chlorine" above, and (2) if necessary following the demonstration, design, construct, and place into operation facilities needed to comply with the effluent limitation for Total Residual Chlorine. It is expected that, if a demonstration is to be attempted, it will be completed within approximately one year, thus leaving approximately two years for Chlorine Control facility design and construction. The permittee shall submit Progress Reports that detail the status of the permittee's demonstration efforts and the status of chlorine control facility design, construction, and operation. Such Progress Reports shall be submitted to the Chief of the Surface Water Quality Division on or before December 31, 1988 and December 31, 1989.

PART I, Section A

3. Special Condition - Long-Term Water Quality Based Effluent Limits

a. This special condition establishes the mechanism for proceeding toward achievement of water quality based effluent limits which are presently neither achievable nor detectable but are needed to protect the receiving water. These limits shall be defined as long-term water quality based effluent limits (LTWQBEL) and are as follows:

SUBSTANCES	DATES IN EFFECT	CONCENTRATION LIMIT (30 DAY AVERAGE)
PCB	All Year	1.2×10^{-5} ug/l

The permittee shall develop and submit to the Chief of the Surface Water Quality Division a long-term compliance plan on or before January 1, 1987. The plan shall include: (1) a program and schedule to make reasonable progress toward achieving the above limitations; (2) a proposal to use bio-monitoring or other techniques to determine progress toward compliance; (3) Any other information necessary to provide the demonstration required by Rule 323.1057(2)(f) for a scheduled abatement permit. After review of the long-term compliance plan, this permit may be modified by the Water Resources Commission in accordance with Part II, Section D-4 to incorporate requirements for proceeding toward achievement of the LTWQBEL.

b. This permit does not authorize the discharge of these substances at levels which are injurious to the designated uses of the waters of the state or which constitute a threat to the public health or welfare. In addition, the following requirements shall apply to outfall 001:

SUBSTANCES	DATES IN EFFECT	ANALYTICAL METHOD	MONITORING FREQUENCY
PCB	All Year	EPA Method 608	2 X Monthly

Beginning on January 1, 1987, the discharge of these substances at detectable levels is a specific violation of this permit. The reported detection level for the method specified shall not exceed:

0.1 ug/l for PCB

unless a higher level is appropriate because of sample matrix interference.

Permit No. MI 0038113

MICHIGAN WATER RESOURCES COMMISSION

AUTHORIZATION TO DISCHARGE UNDER THE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 U.S.C. 1251 et seq; the "Act"), and the Michigan Water Resources Commission Act, as amended, (Act 245, Public Acts of 1929, as amended, the "Michigan Act"),

Keene Corporation

is authorized to discharge from a facility located at

1603 Fulford Street
Kalamazoo, Michigan 49003

to receiving water named the Kalamazoo River via storm sewer

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I and II hereof.

This permit shall become effective on the date of issuance and shall be final in the absence of a request for a hearing filed within 15 days after receipt thereof.

This permit and the authorization to discharge shall expire at midnight, December 31, 1987. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Michigan Water Resources Commission no later than 180 days prior to the date of expiration.

This permit is based on the Company's application dated September 7, 1982, and shall supersede any and all Orders of Determination, Stipulation, or Final Orders of Determination previously adopted by the Michigan Water Resources Commission.

Issued this 31st day of January, 1983, for the Michigan Water Resources Commission, superseding NPDES Permit No. MI 0038113 expiring July 31, 1981.

William D. Marks
Acting Executive Secretary

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. Final Effluent Limitations

During the period beginning on the date of issuance of this permit and lasting until expiration of this permit, the permittee is authorized to discharge up to twelve-thousand nine-hundred and seventy (12,970) gallons per day of noncontact cooling water from outfall 001 to the Kalamazoo River via municipal stormsewer. Such discharge shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations kg/day (lbs/day) Monthly Average	Daily Maximum	Other Limitations Monthly Average	Daily Maximum	Monitoring Requirements Measurement Frequency	Sample Type
SELF-RETAINED MONITORING (See Part I, B.2.b.)						
Flow, M^3/Day(MGD)					Weekly	Total Daily Flow
Outfall Observation*					Weekly	Visual

*Any unusual characteristics of the discharge which would not be expected from the above authorized discharge (e.g., turbidity, discoloration, oil film, suspended matter, etc.) shall be reported immediately to the district office of the Water Quality Division followed with a written report within 5 days detailing the findings of the investigation and the steps taken to correct the condition.

The term noncontact cooling water shall mean water used for cooling which does not come into direct contact with any raw material, intermediate products, by-product, waste product, or finished product.

a. The discharge shall not cause excessive foam in the receiving waters. The discharge shall be essentially free of floating and settleable solids.

b. The discharge shall not contain oil or other substances in amounts sufficient to create a visible film or sheen on the receiving waters.

c. Samples taken in compliance with the monitoring requirements shall be taken

d. In the event the permittee shall require the use of water treatment additives, the permittee shall notify the Chief of the Water Quality Division. The permittee shall obtain written approval from the Chief of the Water Quality Division to use such additives at a specified level. The permit may be modified in accordance with the requirements of Part II, Section A-1 if a constituent of the additive or additives requires limiting.

2. Special Condition

This permit may be modified, or, alternatively revoked and reissued to comply with any applicable standard(s) or limitation(s) promulgated under Sections 301 (b)(2)(C)(D), 304 (b)(2) and 307 (a)(2), if the effluent standard(s) or limitation(s) so promulgated:

(a) is (are) either different in conditions or more stringent than any effluent limitation in the permit; or

(b) control(s) any pollutant not limited in the permit.

Permit No. MI 0038644

MICHIGAN WATER RESOURCES COMMISSION
AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMITATION SYSTEM

In compliance with the provision of the Federal Water Pollution Control Act, as amended, (33, U.S.C. 1251 et seq; the "Act"), and the Michigan Water Resources Commission Act, as amended, (Act 245, Public Acts of 1929, as amended, the "Michigan Act"),

James River Paper Company, Inc.
100 Island Avenue
Parchment, Michigan 49044-1394

is authorized to discharge from a facility located at
Plant #11
2050 East Michigan Avenue
Kalamazoo, Michigan 49004-1394

designated as James River Paper-Kalamazoo
to receiving water named Kalamazoo River via county storm sewer

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I and II hereof.

This permit takes effect immediately upon the date of issuance. Any person who feels aggrieved by this permit may file a sworn petition with the Commission, setting forth the conditions of the permit which are being challenged and specifying the grounds for the challenge. The Commission may reject any petition filed more than 60 days after issuance as being untimely. Upon granting of a contested case to the applicant, the Commission shall review the permit to determine which contested term shall be stayed until the Commission takes its final action. All other conditions of the permit remain in full effect. If the contested condition is a modification of a previous permit condition and the Commission determines the contested condition shall be stayed, then such previous condition remains in effect until the Commission takes final action. During the course of any administrative proceeding brought by a person other than the applicant, the conditions of this permit will remain in effect, unless the Commission determines otherwise.

This permit and the authorization to discharge shall expire at midnight April 30, 1988. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Michigan Water Resources Commission no later than 180 days prior to the date of expiration.

This permit is based on an application dated January 25, 1982 as amended, and shall supersede any and all Orders of Determination, Stipulation, Final Orders of Determination, or NPDES Permits previously adopted by the Michigan Water Resources Commission.

Issued this 26th day of May 1983, and modified this 18th day of June 1987, for the Michigan Water Resources Commission superseding NPDES Permit No. MI 0038644, expiring March 31, 1982.

Paul D. Zugger
Executive Secretary

Modification

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. Final Effluent Limitations

During the period beginning upon issuance of this permit and lasting until expiration of this permit, the permittee is authorized to discharge up to one million five hundred thousand (1,500,000) gallons per day of noncontact cooling water and groundwater seepage water from outfall 001 to the Kalamazoo River via county storm sewer. Such discharge shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations kg/day (lbs/day) Monthly Average	Discharge Limitations kg/day (lbs/day) Daily Maximum	Other Limitations Monthly Average	Other Limitations Daily Maximum	Monitoring Requirements Measurement Frequency	Monitoring Requirements Sample Type
Flow, M^3/Day (MGD)					Weekly	Reading
Total Phosphorus (mg/l)					Monthly	Grab
Outfall Observation*					Weekly	Visual

*Any unusual characteristics of the discharge which would not be expected from noncontact cooling water (e.g., turbidity, discoloration, oil film, suspended solids, etc.) shall be reported immediately to the District Office of the Surface Water Quality Division, followed with a written report within 5 days detailing the findings of the investigation and the steps taken to correct the condition.

The term noncontact cooling water shall mean water used for cooling which does not come into direct contact with any raw material, intermediate product, by-product, waste product, or finished product.

a. The discharge shall not cause excessive foam in the receiving waters. The discharge shall be essentially free of floating and settleable solids.

b. The discharge shall not contain oil or other substances in amounts sufficient to create a visible film or sheen on the receiving waters.

c. Samples taken in compliance with the monitoring requirements shall be taken prior to discharge to the county storm sewer.

d. In the event the permittee shall require the use of water treatment additives in addition to any previously approved by the Chief of the Surface Water Quality Division, the permittee shall notify the Division Chief. Written approval from the Chief fo the Surface Water Quality Division to use such additives at specified levels shall be obtained prior to usage by the permittee. The permit will be modified in accordance with the requirements of Part II, Section A-1 if a constituent of the additive or additives requires limiting.

2. Special Condition

This permit may be modified, or, alternatively revoked and reissued to comply with any applicable standard(s) or limitation(s) promulgated under Sections 301 (b)(2)(C)(D), 304 (b)(2) and 307 (a)(2), if the effluent standard(s) or limitation(s) so promulgated:

(a) is (are) either different in conditions or more stringent than any effluent limitation in the permit; or

(b) control(s) any pollutant not limited in the permit.

Permit No. MI 0028924

MICHIGAN WATER RESOURCES COMMISSION
AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provision of the Federal Water Pollution Control Act, as amended, (33, U.S.C. 1251 et seq; the "Act"), and the Michigan Water Resources Commission Act, as amended, (Act 245, Public Acts of 1929, as amended, the "Michigan Act"),

Pneumo Corporation
National Water Lift Company

is authorized to discharge from a facility located at

2220 Palmer Avenue
Kalamazoo, Michigan 49001

to receiving water named the Kalamazoo River, via storm sewer

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I and II hereof.

This permit takes effect immediately upon the date of issuance. Any person who feels aggrieved by this permit may file a sworn petition with the Commission, setting forth the conditions of the permit which are being challenged and specifying the grounds for the challenge. The Commission may reject any petition filed more than 60 days after issuance as being untimely. Upon granting of a contested case to the applicant, the Commission shall review the permit to determine which contested terms shall be stayed until the Commission takes its final action. All other conditions of the permit remain in full effect. If the contested condition is a modification of a previous permit condition and the Commission determines the contested condition shall be stayed, then such previous condition remains in effect until the Commission takes final action. During the course of any administrative proceeding brought by a person other than the applicant, the conditions of this permit will remain in effect, unless the Commission determines otherwise.

This permit and the authorization to discharge shall expire at midnight April 30, 1990. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Michigan Water Resources Commission no later than 180 days prior to the date of expiration.

This permit is based on an application dated January 15, 1985, and shall supersede any and all Orders of Determination, Stipulation, Final Orders of Determination, or NPDES Permits previously adopted by the Michigan Water Resources Commission.

Issued this 21st day of May 1985, by the Michigan Water Resources Commission superseding NPDES Permit No. MI 0028924, expiring July 31, 1985.

Paul D. Zugger
Executive Secretary

Reissue,

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. Final Effluent Limitations

During the period beginning upon the date of issuance of this permit and lasting until the date of expiration of this permit, the permittee is authorized to discharge a maximum of five hundred thousand (500,000) gallons per day of noncontact cooling water and an unspecified amount of storm water from outfalls 001 and 002 to the Kalamazoo River via municipal storm sewer. Such discharge shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations kg/day (lbs/day) Monthly Average	Daily Maximum	Other Limitations Monthly Average	Daily Maximum	Monitoring Requirements Measurement Frequency	Sample Type
Retained Self-Monitoring Requirements (See Part I-B. 2.b., page 5 of 7)						
Flow, M^3/Day (MGD)					Weekly	Total daily flow
Outfall Observation*					Daily	Visual

*Any unusual characteristics of the discharge which would not be expected from noncontact cooling water (i.e., turbidity, discoloration, oil film, suspended matter, etc.) shall be reported immediately to the District Office of the Surface Water Quality Division followed with a written report within 5 days detailing the findings of the investigation and the steps taken to correct the condition.

The term noncontact cooling water shall mean water used for cooling which does not come into direct contact with any raw material, intermediate product, by-product, waste product, or finished product.

a. The discharge shall not cause excessive foam in the receiving waters. The discharge shall be essentially free of floating and settleable solids.

b. The discharge shall not contain oil or other substances in amounts sufficient to create a visible film or sheen on the receiving waters.

c. Visual observations done in compliance with the monitoring requirements shall be performed at the storm sewer manhole where the engineering and production lab noncontact cooling water merge and at the manhole to the Miller Avenue storm sewer.

d. In the event the permittee shall require the discharge of water treatment additives, the permittee shall notify the Chief of the Surface Water Quality Division. The permittee shall obtain written approval from the Chief of the Surface Water Quality Division to discharge such additives at a specified level. The permit may be modified in accordance with the requirements of Part II, Section B-4 if a consituent of the additive or additives requires limiting.

2. Special Condition - Notification Requirement

The discharger shall notify the Chief of the Surface Water Quality Division, in writing, within 10 days of knowing, or having reason to believe, that any activity has occurred or will occur which would result in the discharge of:

1. Detectable levels* of chemicals on the current Michigan Critical Materials Register or priority pollutants or hazardous substances set forth in 40 CFR 122.21, Appendix D. 1983 which were not acknowledged in the application** or listed in the application at less than detectable levels.

2. Detectable levels* of any other chemical not listed in the application or listed at less than detection, for which the application specifically requested information.

3. Any chemical at levels greater than five times the average level reported in the application**.

Any other monitoring results obtained as a requirement of this permit shall be reported in accordance with the schedule of compliance.

*Detectable Levels:

For Organic Chemicals: The analytical level of detection (L.O.D.) shall be defined as three times the peak to peak noise measured on the baseline in an area close to the actual or expected analyte peak as described in "Guidelines for Data Quality Evaluation in Environmental Chemistry", Analytical Chemistry, Vol. 52, No. 14, December 1980, pp. 2242-2249.

The permittee may substitute the Method Detection Limit (M.D.L.) as described in "Trace Analyses for Wastewaters", Environmental Sciences and Technology, Vol. 15, No. 12, December 1981, pp. 1426-1435, for the L.O.D.

For Inorganic Chemicals: Detection levels are established in approved analytical procedures pursuant to Section 304(h) of the Clean Water Act, as amended.

**The application dated January 15, 1985.

Permit No. MI 0002941

MICHIGAN WATER RESOURCES COMMISSION
AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provision of the Federal Water Pollution Control Act, as amended, (33, U.S.C. 1251 et seq; the "Act"), and the Michigan Water Resources Commission Act, as amended, (Act 245, Public Acts of 1929, as amended, the "Michigan Act"),

Upjohn Company

is authorized to discharge from a facility located at

7171 Portage Road
Kalamazoo, Michigan

to receiving water named Portage Creek and Austin Lake

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I and II hereof.

This permit takes effect immediately upon the date of issuance. Any person who feels aggrieved by this permit may file a sworn petition with the Commission, setting forth the conditions of the permit which are being challenged and specifying the grounds for the challenge. The Commission may reject any petition filed more than 60 days after issuance as being untimely. Upon granting of a contested case to the applicant, the Commission shall review the permit to determine which contested terms shall be stayed until the Commission takes its final action. All other conditions of the permit remain in full effect. If the contested condition is a modification of a previous permit condition and the Commission determines the contested condition shall be stayed, then such previous condition remains in effect until the Commission takes final action. During the course of any administrative proceeding brought by a person other than the applicant, the conditions of this permit will remain in effect, unless the Commission determines otherwise.

This permit and the authorization to discharge shall expire at midnight August 31, 1990. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Michigan Water Resources Commission no later than 180 days prior to the date of expiration.

This permit is based on an application dated May 1981 and updated June 21, 1985, and shall supersede any and all Orders of Determination, Stipulation, Final Orders of Determination, or NPDES Permits previously adopted by the Michigan Water Resources Commission.

Issued this 19th day of September 1985, by the Michigan Water Resources Commission superseding NPDES Permit No. MI 0002941, expiring June 30, 1981.

Paul D. Zugger
Executive Secretary

Reissue,

PART I

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. Final Effluent Limitations - Outfall 001 (noncontact cooling water, stormwater, water softener unit wastewater, groundwater purge water)

During the period beginning on the issuance of this permit and lasting until permit expiration, the permittee is authorized to discharge twenty one million, five hundred thousand (21,500,000) million gallons per day* of noncontact cooling water, water-main flush water, stormwater, groundwater purge water and water softener rinse water from Outfall 001 to Portage Creek. Such discharge shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations kg/day (lbs/day) Monthly Average	Discharge Limitations kg/day (lbs/day) Daily Maximum	Other Limitations Monthly Average	Other Limitations Daily Maximum	Monitoring Requirements Measurement Frequency	Monitoring Requirements Sample Type
Flow (MGD)					Daily	Report total daily flow
Total Residual Chlorine (TRC)**				0.024 mg/l	Daily	Grab
Total Phosphorus				1.0 mg/l	Weekly	Grab
Total Dissolved Solids			600 mg/l	900 mg/l	Weekly	Grab
Temperature (^{o}F) - Intake					Weekly	Direct reading
Discharge					Daily	Direct reading
Heat Addition (BTU/hr)#						
April 1 - June 30			117×10^6	166×10^6	Daily	Calculation
July 1 - Sept. 30			108×10^6	166×10^6	Daily	Calculation
Oct. 1 - Dec. 31			121×10^6	166×10^6	Daily	Calculation
Jan. 1 - March 31			---	166×10^6	Daily	Calculation
Outfall Observation@					Daily	Visual
Benzene					Monthly	Grab
1,2-Dichloroethane					Monthly	Grab
Chlorobenzene					Monthly	Grab
t-Butanol					Monthly	Grab
Methylene Chloride (effective 1/1/86 thru 2/28/86)					Daily	Grab
Chemical Oxygen Demand					Daily	24-hr. composite

*This flow is not to be considered as a limitation on either the quantity or rate over time of discharge.

**The permittee may use dechlorination techniques to achieve the applicable limitations using sodium thiosulfate or sodium sulfite or other dechlorinating agents approved by the Chief of the Surface Water Quality Division as dechlorination agents. The quantity of reagent used shall be limited to 1.5 times the stoichiometric amount needed for dechlorination of applied chlorine. The permittee shall report monthly the quantity of each dechlorination reagent used per day.

@Any unusual characterisitcs of the discharge (i.e., unnatural turbidity, color, oil film, floating solids, foams, settleable solids, or deposits) shall be reported immediately to the District Office of the Surface Water Quality Division followed with a written report within 5 days detailing the findings of the investigation and the steps taken to correct the condition.

#For the period November 1 through April 30, if the discharge of thermal effluent is stopped, the cessation of thermal input shall occur gradually so as to prevent cold shock mortality to fish.

a. The term noncontact cooling water shall mean water used for cooling which does not come into direct contact with any raw material, intermediate product, waste product, by-product, or finished product.

b. The pH shall not be less than 6.0 nor greater than 9.0. The pH shall be monitored as follows: daily; grab sample.

c. The receiving water shall contain no unnatural turbidity, color, oil film, floating solids, foams, settleable solids, or deposits in quantities which are or may become injurious to any designated use as a result of this discharge.

d. Samples, measurements and/or observations taken in compliance with the monitoring requirements above shall be taken as follows: intake - prior to entering the plant; discharge - prior to discharging to Portage Creek.

e. In the event the permittee shall require the discharge of water treatment additives in addition to any previously approved by the Chief of the Surface Water Quality Division, the permittee shall notify the Division Chief. Written approval from the Chief of the Surface Water Quality Division to discharge such additives at specified levels shall be obtained prior to discharge by the permittee. The permit will be modified in accordance with the requirements of Part II, Section B-4 if a constituent of the additive or additives requires limiting.

2. Final Effluent Limitations - Discharge from Upjohn Recharge Pond to Austin Lake

Prior to each season of discharging groundwater recharge pond water to Austin Lake, the permittee shall: 1) provide the Chief of the Surface Water Quality Division with at least one analysis of the pond water for benzene, 1,2-dichloroethane, chlorobenzene and t-butanol; and 2) not discharge groundwater recharge pond water to Austin Lake until prior approval by the Chief of the Surface Water Quality Division is given for each season of discharge (not daily).

Permit No. MI 0037702

MICHIGAN WATER RESOURCES COMMISSION
AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provision of the Federal Water Pollution Control Act, as amended, (33, U.S.C. 1251 et seq; the "Act"), and the Michigan Water Resources Commission Act, as amended, (Act 245, Public Acts of 1929, as amended, the "Michigan Act"),

Kalamazoo Plastics Company

is authorized to discharge from a facility located at

1811 Factory Street
Kalamazoo, Michigan 49001

designated as Kalamazoo Plastics Co
to receiving water named the Kalamazoo River via municipal storm sewers

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I and II hereof.

This permit takes effect immediately upon the date of issuance. Any person who feels aggrieved by this permit may file a sworn petition with the Commission, setting forth the conditions of the permit which are being challenged and specifying the grounds for the challenge. The Commission may reject any petition filed more than 60 days after issuance as being untimely. Upon granting of a contested case to the applicant, the Commission shall review the permit to determine which contested terms shall be stayed until the Commission takes its final action. All other conditions of the permit remain in full effect. If the contested condition is a modification of a previous permit condition and the Commission determines the contested condition shall be stayed, then such previous condition remains in effect until the Commission takes final action. During the course of any administrative proceeding brought by a person other than the applicant, the conditions of this permit will remain in effect, unless the Commission determines otherwise.

This permit and the authorization to discharge shall expire at midnight March 31, 1991. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Michigan Water Resources Commission no later than 180 days prior to the date of expiration.

This permit is based on an application dated May 6, 1985, and shall supersede any and all Orders of Determination, Stipulation, Final Orders of Determination, or NPDES Permits previously adopted by the Michigan Water Resources Commission.

Issued this 20th day of June 1986, by the Michigan Water Resources Commission superseding NPDES Permit No. MI 0037702, expiring February 28, 1986.

Paul D. Zugger
Executive Secretary

Reissue

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. Final Effluent Limitations

Beginning upon the date of issuance of this permit and lasting until the date of expiration of this permit, the permittee is authorized to discharge a maximum of four thousand (4,000) gallons per day of noncontact cooling water from outfall 001 to the Kalamazoo River via a municipal storm sewer. Such discharge shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations kg/day (lbs/day) Monthly Average	Discharge Limitations kg/day (lbs/day) Daily Maximum	Other Limitations Monthly Average	Other Limitations Daily Maximum	Monitoring Requirements Measurement Frequency	Monitoring Requirements Sample Type
Flow, M^3/Day (MGD)					Weekly	Report total daily flow
Temperature (^oF)					Weekly	Instantaneous reading
Outfall Observation*					Weekly	Visual

*Any unusual characteristics of the discharge (i.e., unnatural turbidity, color, oil film, floating solids, foams, settleable solids, or deposits) shall be reported immediately to the District Office of the Surface Water Quality Division followed with a written report within 5 days detailing the findings of the investigation and the steps taken to correct the condition.

The term noncontact cooling water shall mean water used for cooling which does not come into direct contact with any raw material, intermediate product, by-product, waste product, or finished product.

a. The receiving stream shall contain no unnatural turbidity, color, oil film, floating solids, foams, settleable solids or deposits as a result of this discharge.

b. Samples, measurements and observations taken in compliance with the monitoring requirements above shall be taken prior to discharging to the municipal storm sewer.

c. In the event the permittee shall require the discharge of water treatment additives, the permittee shall notify the Chief of the Surface Water Quality Division. The permittee shall obtain written approval from the Chief of the Surface Water Quality Division to discharge such additives at a specified level. The permit may be modified in accordance with the requirements of Part II, Section B-4 if a constituent of the additive or additives requires limiting.

2. Special Condition

This permit may be modified or, alternatively, revoked and reissued to comply with any applicable standard(s) or limitation(s) promulgated under Section 301(b)(2)(c)(d), 304(b)(2) and 307(a)(2) of the Act, if the effluent standard(s) or limitation(s) so promulgated:

a. is(are) either different in condition or more stringent than any effluent limitation in the permit; or

b. control(s) any pollutant not limited in the permit.

3. Special Condition - Notification Requirement

The discharger shall notify the Chief of the Surface Water Quality Division, in writing, within 10 days of knowing, or having reason to believe, that a change in facility operation, maintenance, or construction has resulted or will result in the discharge of:

1. Detectable levels* of chemicals on the current Michigan Critical Materials Register or priority pollutants or hazardous substances set forth in 40 CFR 122.21, Appendix D, which were not acknowledged in the application** or listed in the application at less than detectable levels.

2. Detectable levels* of any other chemical not listed in the application or listed at less than detection, for which the application specifically requested information.

3. Any chemical at levels greater than five times the average level reported in the application**.

Any other monitoring results obtained as a requirement of this permit shall be reported in accordance with the schedule of compliance.

*The detectable level shall be defined as the Method Detection Limit (MDL) as given in Appendix B to Part 136, Federal Register, Vol. 49, No. 209, October 26, 1984, pp. 43430-31.

**The application dated May 6, 1985.

Permit No. MI 0002950

MICHIGAN WATER RESOURCES COMMISSION
AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provision of the Federal Water Pollution Control Act, as amended, (33, U.S.C. 1251 et seq; the "Act"), and the Michigan Water Resources Commission Act, as amended, (Act 245, Public Acts of 1929, as amended, the "Michigan Act"),

Upjohn Company

is authorized to discharge from a facility located at

301 Henrietta Street
Kalamazoo, Michigan 49007

designated as Upjohn Company-Henrietta St
to receiving water named Portage Creek via Municipal Storm Sewer

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I and II hereof.

This permit takes effect immediately upon the date of issuance. Any person who feels aggrieved by this permit may file a sworn petition with the Commission, setting forth the conditions of the permit which are being challenged and specifying the grounds for the challenge. The Commission may reject any petition filed more than 60 days after issuance as being untimely. Upon granting of a contested case to the applicant, the Commission shall review the permit to determine which contested terms shall be stayed until the Commission takes its final action. All other conditions of the permit remain in full effect. If the contested condition is a modification of a previous permit condition and the Commission determines the contested condition shall be stayed, then such previous condition remains in effect until the Commission takes final action. During the course of any administrative proceeding brought by a person other than the applicant, the conditions of this permit will remain in effect, unless the Commission determines otherwise.

This permit and the authorization to discharge shall expire at midnight June 30, 1991. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Michigan Water Resources Commission no later than 180 days prior to the date of expiration.

This permit is based on an application dated January 31, 1986, and shall supersede any and all Orders of Determination, Stipulation, Final Orders of Determination, or NPDES Permits previously adopted by the Michigan Water Resources Commission.

Issued this 19th day of September 1986, by the Michigan Water Resources Commission superseding NPDES Permit No. MI 0002950, expiring June 30, 1986.

Paul D. Zugger
Executive Secretary

Reissue

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. Final Effluent Limitations

Beginning upon the issuance date of this permit and lasting until the expiration date of this permit, the permittee is authorized to discharge up to eight million (8,000,000) gallons per day of noncontact cooling water, fire protection booster pump and sprinkler system flush water, and an unspecified quantity of stormwater runoff from outfall 001 to Portage Creek via Municipal Storm Sewer. Such discharge shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations kg/day (lbs/day) Monthly Average	Daily Maximum	Other Limitations Monthly Average	Daily Maximum	Monitoring Requirements Measurement Frequency	Sample Type
Retained Self-Monitoring Requirements (See page 5 of 7, Part I-B-2.b.)						
Flow, M^3/Day (MGD)					Weekly	Report total daily flow
Temperature (^oF)					Weekly	Direct reading
Outfall Observation*					3x Weekly	Visual

*Any unusual characteristics of the discharge (i.e., unnatural turbidity, color, oil film, floating solids, foams, settleable solids, or deposits) shall be reported immediately to the District Office of the Surface Water Quality Division followed with a written report within 5 days detailing the findings of the investigation and the steps taken to correct the condition.

The term noncontact cooling water shall mean water used for cooling which does not come into direct contact with any raw material, intermediate product, by-product, waste product, or finished product.

a. The receiving stream shall contain no unnatural turbidity, color, oil film, floating solids, foams settleable solids, or deposits as a result of this discharge.

b. Measurements and observations taken in compliance with the monitoring requirements above shall be taken at outfall 001 prior to discharge to the Municipal Storm Sewer.

c. In the event the permittee shall require the discharge of water treatment additives in addition to any previously approved by the Chief of the Surface Water Quality Division, the permittee shall notify the Division Chief. Written approval from the Chief of the Surface Water Quality Division to discharge such additives at specified levels shall be obtained prior to discharge by the permittee. The permit will be modified in accordance with the requirements of Part II, Section B-4 if a constituent of the additive or additives requires limiting.

2. Final Effluent Limitations

Beginning upon the issuance date of this permit and lasting until the expiration date of this permit, the permittee is authorized to discharge up to three million (3,000,000) gallons per day of noncontact cooling water, fire protection sprinkler system flush water, and an unspecified quantity of stormwater runoff from outfall 002 to Portage Creek via Municipal Storm Sewer. Such discharge shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations kg/day (lbs/day) Monthly Average	Daily Maximum	Other Limitations Monthly Average	Daily Maximum	Monitoring Requirements Measurement Frequency	Sample Type
Retained Self-Monitoring Requirements (See page 5 of 7, Part I-B-2.b.)						
Flow, M^3/Day (MGD)						
January - March					Monthly	Report total
April - December					Weekly	daily flow
Temperature (^oF)					Weekly	Direct reading
Outfall Observation*					3x Weekly	Visual

*Any unusual characteristics of the discharge (i.e., unnatural turbidity, color, oil film, floating solids, foams, settleable solids, or deposits) shall be reported immediately to the District Office of the Surface Water Quality Division followed with a written report within 5 days detailing the findings of the investigation and the steps taken to correct the condition.

The term noncontact cooling water shall mean water used for cooling which does not come into direct contact with any raw material, intermediate product, by-product, waste product, or finished product.

a. The receiving stream shall contain no unnatural turbidity, color, oil film, floating solids, foams, settleable solids, or deposits as a result of this discharge.

b. Measurements and observations taken in compliance with the monitoring requirements above shall be taken at outfall 002 prior to discharge to the Municipal Storm Sewer.

c. In the event the permittee shall require the discharge of water treatment additives, the permittee shall notify the Chief of the Surface Water Quality Division. The permittee shall obtain written approval from the Chief of the Surface Water Quality Division to discharge such additives at a specified level. The permit may be modified in accordance with the requirements of Part II, Section B-4 if a constituent of the additive or additives requires limiting.

3 Special Condition - Reopener Clause

This permit may be modified or, alternatively, revoked and reissued to comply with any applicable standard(s) or limitation(s) promulgated under Section 301(b)(2)(c)(d), 304(b)(2) and 307(a)(2) of the Act, if the effluent standard(s) or limitation(s) so promulgated:

a. is(are) either different in condition or more stringent than any effluent limitation in the permit; or

b. control(s) any pollutant not limited in the permit.

4. Special Condition - Notification Requirement

The discharger shall notify the Chief of the Surface Water Quality Division, in writing, within 10 days of knowing, or having reason to believe, that a change in facility operation, maintenance, or construction has resulted or will result in the discharge of:

a. Detectable levels* of chemicals on the current Michigan Critical Materials Register or priority pollutants or hazardous substances set forth in 40 CFR 122.21, Appendix D, which were not acknowledged in the application** or listed in the application at less than detectable levels.

b. Detectable levels* of any other chemical not listed in the application or listed at less than detection, for which the application specifically requested information.

c. Any chemical at levels greater than five times the average level reported in the application**.

Any other monitoring results obtained as a requirement of this permit shall be reported in accordance with the schedule of compliance.

*The detectable level shall be defined as the Method Detection Limit (MDL) as given in Appendix B to Part 136, Federal Register, Vol. 49, No. 209, October 26, 1984, pp. 43430-31.

**The application dated January 31, 1986.

5. Special Condition - Water Additive Usage

The permittee is authorized to continue to use water additive Nalco 7310, provided the permittee submits to the Surface Water Quality Plainwell District Office, a quarterly report demonstrating that the concentration of the discharge does not exceed the water quality based effluent limitations of 19.5 mg/l as a daily maximum.

The effluent concentration of the above mentioned water additive shall be determined by analyses or, if an approved analytical technique is not available, by calculations based on the mass balance through the system.

Permit No. MI 0043231

MICHIGAN WATER RESOURCES COMMISSION

AUTHORIZATION TO DISCHARGE UNDER THE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 U.S.C. 1251 et seq: the "Act"), and the Michigan Water Resources Commission Act, as amended, (Act 245, Public Acts of 1929, as amended, the "Michigan Act"),

Swift-Eckrich, Inc.
1919 Swift Drive
Oak Brook, Illinois 60522

(formerly Beatrice Meats, Inc.)

is authorized to discharge from a facility located at

631 Second Street
Kalamazoo, Michigan 49007

to receiving water named Portage Creek via municipal storm sewer

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I and II hereof.

This permit takes effect immediately on the date of issuance. Any person who feels aggrieved by this permit must file a sworn petition with the Commission, setting forth the grounds for the complaint, and specifying the conditions of the permit which are being challenged. The Commission may reject any petition filed more than 60 days after issuance for being untimely. Upon granting of a contested case hearing by the Commission, the Commission shall review the permit to determine which contested terms, if any, shall be stayed until the Commission takes its final action. If a stayed condition is a modification of a previous permit condition, then such previous condition is in full force and effect until the Commission takes its final action.

This permit and the authorization to discharge shall expire at midnight July 31, 1988. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Michigan Water Resources Commission no later than 180 days prior to the date of expiration.

This permit is based on an application dated August 9, 1982, and shall supersede any and all Orders of Determination, Stipulation, Final Orders of Determination, or NPDES Permits previously adopted by the Michigan Water Resources Commission.

Issued this 27th day of July, 1983, and modified this 26th day of December 1984, for the Michigan Water Resources Commission.

Paul D. Zugger
Executive Secretary

Modification

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Final Effluent Limitations

During the period beginning upon issuance of this permit and lasting until the expiration date of this permit, the permittee is authorized to discharge a total of seventy thousand (70,000) gallons per day of noncontact cooling water from outfall 03A and outfall 03B to Portage Creek via the municipal storm sewer. Such discharge shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations kg/day (lbs/day) Monthly Average	Daily Maximum	Other Limitations Monthly Average	Daily Maximum	Monitoring Requirements Measurement Frequency	Sample Type
Outfalls 03A and 03B						
Self-Monitoring (See Part I, B-2 page 4 of 6						
Flow, M^3/Day (MGD)				0.070	Daily	Report total daily flow
Temperature (^oF)			75^oF	80^oF		
Outfall Observation					Daily	Visual

*Any unusual characteristics of the discharge which would not be expected from noncontact cooling water (i.e., turbidity, discoloration, oil film, suspended solids, etc.) shall be reported immediately to the District Office of the Surface Water Quality Division followed with a written report within 5 days detailing the findings of the investigation and the steps taken to correct the condition.

The term noncontact cooling water shall mean water used for cooling which does not come into direct contact with any raw material, intermediate product, by-product, waste product, or finished product.

a. The discharge shall not cause excessive foam in the receiving waters. The discharge shall be essentially free of floating and settleable solids.

b. The discharge shall not contain oil or other substances in amounts sufficient to create a visible film or sheen on the receiving waters.

c. Samples taken in compliance with the monitoring requirements shall be taken at outfalls 03A and 03B prior to discharging to the storm sewer.

d. In the event the permittee shall require the use of water treatment additives, the permittee shall notify the Chief of the Surface Water Quality Division. The permittee shall obtain written approval from the Chief of the Surface Water Quality Division to use such additives at a specified level. The permit may be modified in accordance with the requirements of Part II, Section A-1 if a constituent of the additive or additives requires limiting.

Permit No. MI 0029076

MICHIGAN WATER RESOURCES COMMISSION

AUTHORIZATION TO DISCHARGE UNDER THE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 U.S.C. 1251 et seq; the "Act"), and the Michigan Water Resources Commission Act, as amended, (Act 245, Public Acts of 1929, as amended, the "Michigan Act"),

PREMIER HOSPITALITY CORPORATION
dba Kalamazoo Center

is authorized to discharge from a facility located at

100 West Michigan Avenue
Kalamazoo, Michigan 49007

to receiving water named Kalamazoo River via city storm sewer

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I and II hereof.

This permit shall become effective on the date of issuance and shall be final in the absence of a request for a hearing filed within 15 days after receipt thereof.

This permit and the authorization to discharge shall expire at midnight, August 31, 1987. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Michigan Water Resources Commission no later than 180 days prior to the date of expiration.

This permit is based on the Company's application dated August 15, 1979, and shall supersede any and all Orders of Determination, Stipulation, or Final Orders of Determination previously adopted by the Michigan Water Resources Commission.

Issued this 2nd day of November, 1982, for the Michigan Water Resources Commission, superseding NPDES Permit No. MI 0029076 expiring October 31, 1979.

Robert J. Courchaine

Robert J. Courchaine
Executive Secretary

PART I

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. Final Effluent Limitations

During the period beginning upon issuance of this permit and lasting until expiration of this permit, the permittee is authorized to discharge an average of twelve thousand (12,000) gallons per day of noncontact cooling water from outfall 001 to the Kalamazoo River via municipal storm sewer. Such discharge shall be limited and monitored as specified below:

Effluent Characteristic	Discharge Limitations kg/day (lbs/day) Monthly Average	Discharge Limitations kg/day (lbs/day) Daily Maximum	Other Limitations Monthly Average	Other Limitations Daily Maximum	Monitoring Requirements Measurement Frequency	Monitoring Requirements Sample Type
Flow, M^3/Day (MGD)					Monthly	Report total daily flow
Outfall Observation*					Weekly	Visual

*Any unusual characteristics of the discharge which would not be expected from noncontact cooling water (e.g., turbidity, discoloration, oil film, suspended matter, etc.) shall be reported immediately to the District Office of the Water Quality Division, followed with a written report within 5 days detailing the findings of the investigation and the steps taken to correct the condition.

The term noncontact cooling water shall mean water used for cooling which does not come into direct contact with any raw material, intermediate product, by-product, waste product, or finished product.

a. The discharge shall not cause excessive foam in the receiving waters. The discharge shall be essentially free of floating and settleable solids.

b. The discharge shall not contain oil or other substances in amounts sufficient to create a visible film or sheen on the receiving waters.

c. Samples taken in compliance with the monitoring requirements shall be taken prior to discharging to the municipal storm sewer.

d. In the event the permittee shall require the use of water treatment additives, the permittee shall notify the Chief of the Water Quality Division. The permittee shall obtain written approval from the Chief of the Water Quality Division to use such additives at a specified level. The permit may be modified in accordance with the requirements of Part II, Section A-1 if a constituent of the additive or additives requires limiting.

Permit No. MI 0029025

MICHIGAN WATER RESOURCES COMMISSION

AUTHORIZATION TO DISCHARGE UNDER THE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 U.S.C. 1251 et seq; the "Act"), and the Michigan Water Resources Commission Act, as amended, (Act 245, Public Acts of 1929, as amended, the "Michigan Act"),

Midwest Molded Plastics, Inc.

is authorized to discharge from a facility located at

2220 Lane Blvd.
Kalamazoo, Michigan 49001

to receiving water named Kalamazoo River via municipal storm sewer

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I and II hereof.

This permit shall become effective on the date of issuance and shall be final in the absence of a request for a hearing filed within 15 days after receipt thereof.

This permit and the authorization to discharge shall expire at midnight, May 31, 1986. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Michigan Water Resources Commission no later than 180 days prior to the date of expiration.

This permit is based on the company's application dated March 20, 1979, and shall supersede any and all Orders of Determination, Stipulation, or Final Orders of Determination previously adopted by the Michigan Water Resources Commission.

Issued this 29th day of June, 1981, and modified this 10th day of November, 1982, for the Michigan Water Resources Commission, superseding NPDES Permit No. MI 0029025 expiring October 31, 1979.

Robert J. Courchaine

Robert J. Courchaine
Executive Secretary

PART I Modified November 10, 1982

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. Final Effluent Limitations

During the period beginning upon issuance of this permit and lasting until expiration of this permit, the permittee is authorized to discharge up to thirty-eight thousand five hundred (38,500) gallons per day of noncontact cooling water from outfall 001 to the Kalamazoo River via municipal storm sewer. Such discharge shall be limited and monitored by the permittee as specifed below:

Effluent Characteristic	Discharge Limitations kg/day (lbs/day) Monthly Average	Daily Maximum	Other Limitations Monthly Average	Daily Maximum	Monitoring Requirements Measurement Frequency	Sample Type
Self Monitoring Requirements						
Flow, M^3/Day (MGD)					Weekly	Report total daily flow
Outfall Observation*					Daily	Visual

*Any unusual characteristics of the discharge which would not be expected from noncontact cooling water (e.g., turbidity, discoloration, oil film, suspended matter, etc.) shall be reported immediately to the District Office of the Water Quality Division, followed with a written report within 5 days detailing the findings of the investigation and the steps taken to correct the condition.

The term noncontact cooling water shall mean water used for cooling which does not come into direct contact with any raw material, intermediate product, by-product, waste product, or finished product.

a. The discharge shall not cause excessive foam in the receiving waters. The discharge shall be essentially free of floating and settleable solids.

b. The discharge shall not contain oil or other substances in amounts sufficient to create a visible film or sheen on the receiving waters.

c. Samples taken in compliance with the monitoring requirements above shall be taken prior to discharging to the municipal storm sewer.

d. In the event the permittee shall require the use of water treatment additives, the permittee shall notify the Michigan Water Resources Commission in accordance with the requirements of Part II, Section A-1.

Permit No. MI 0000191

MICHIGAN WATER RESOURCES COMMISSION
AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provision of the Federal Water Pollution Control Act, as amended, (33, U.S.C. 1251 et seq; the "Act"), and the Michigan Water Resources Commission Act, as amended, (Act 245, Public Acts of 1929, as amended, the "Michigan Act"),

James River Corporation
Paperboard Packaging Group

is authorized to discharge from a facility located at

243 East Paterson Street
Kalamazoo, Michigan 49007

to receiving water named Kalamazoo River

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I and II hereof.

This permit takes effect immediately upon the date of issuance. Any person who feels aggrieved by this permit may file a sworn petition with the Commission, setting forth the conditions of the permit which are being challenged and specifying the grounds for the challenge. The Commission may reject any petition filed more than 60 days after issuance as being untimely. Upon granting of a contested case to the applicant, the Commission shall review the permit to determine which contested terms shall be stayed until the Commission takes its final action. All other conditions of the permit remain in full effect. If the contested condition is a modification of a previous permit condition and the Commission determines the contested condition shall be stayed, then such previous condition remains in effect until the Commission takes final action. During the course of any administrative proceeding brought by a person other than the applicant, the conditions of this permit will remain in effect, unless the Commission determines otherwise.

This permit and the authorization to discharge shall expire at midnight June 30, 1990 In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Michigan Water Resources Commission no later than 180 days prior to the date of expiration.

This permit is based on an application dated October 16, 1984, and shall supersede any and all Orders of Determination, Stipulation, Final Orders of Determination, or NPDES Permits previously adopted by the Michigan Water Resources Commission.

Issued this 22nd day of August 1985, by the Michigan Water Resources Commission superseding NPDES Permit No. MI 0000191, expiring February 28, 1985.

Paul D. Zugger
Executive Secretary

Reissue

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. Final Effluent Limitations

During the period beginning upon the date of issuance of this permit and lasting until the date of expiration of this permit, the permittee is authorized to discharge a maximum of nine million one hundred thousand (9,100,000) gallons per day of noncontact cooling water from outfall 005 to the Kalamazoo River. Such discharge shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations kg/day (lbs/day) Monthly Average	Discharge Limitations kg/day (lbs/day) Daily Maximum	Other Limitations Monthly Average	Other Limitations Daily Maximum	Monitoring Requirements Measurement Frequency	Monitoring Requirements Sample Type
Flow, M^3/Day (MGD)					Daily	Continuous Recording
Temperature (^oF)						
Intake					Daily	Continuous Recording
Discharge					Daily	Continuous Recording
Outfall Observation*					Daily	Visual
Heat Discharge Rate (BTU/hr.)				0.071×10^9	Daily	Calculation

The discharge shall not increase the temperature of the Kalamazoo River at the edge of a mixing zone located within the left 1/4 of the river downstream of the discharge more than 5^oF above the existing natural temperature nor above the following maximum monthly temperatures:

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
41	40	50	63	76	84	85	85	79	68	55	43

*Any unusual characteristics of the discharge of noncontact cooling water which would not be expected (i.e., turbidity, discoloration, oil film, suspended solids, etc.) shall be reported immediately to the District Office of the Surface Water Quality Division followed with a written report within 5 days detailing the findings of the investigation and the steps taken to correct the condition.

The term noncontact cooling water shall mean water used for cooling which does not come into direct contact with any raw material, intermediate product, by-product, waste product, or finished product.

1. Final Effluent Limitations (continued)

a. The pH shall not be less than 6.0 nor greater than 9.0. The pH shall be monitored as follows: weekly; grab.

b. The discharge shall not cause excessive foam in the receiving waters. The discharge shall be essentially free of floating and settleable solids.

c. The discharge shall not contain oil or other substances in amounts sufficient to create a visible film or sheen on the receiving waters.

d. Samples, measurements, and observations taken in compliance with the monitoring requirements above shall be taken at outfall 005 prior to discharge to the Kalamazoo River.

e. In the event the permittee shall require the discharge of water treatment additives, the permittee shall notify the Chief of the Surface Water Quality Division. The permittee shall obtain written approval from the Chief of the Surface Water Quality Division to discharge such additives at a specified level. The permit may be modified in accordance with the requirements of Part II, Section B-4 if a constituent of the additive or additives requires limiting.

2. Final Effluent Limitations

During the period beginning upon the date of issuance of this permit and lasting until the date of expiration of this permit, the permittee is authorized to discharge traveling screen shower water from outfall 001 to the Kalamazoo River. The permittee shall collect and remove debris accumulated on the intake screens and dispose of such material on land in an appropriate manner.

3. Final Effluent Limitations

During the period beginning upon the date of issuance of this permit and lasting until the date of expiration of this permit, the permittee is authorized to discharge excess well water from the fresh water makeup reservoir to the Kalamazoo River from outfall 008. Such discharge shall consist of only excess well water and contain no substances which may become injurious to fish and aquatic life or which are or may become injurious to the uses of the receiving water.

a. In the event the permittee shall require the discharge of water treatment additives, the permittee shall notify the Chief of the Surface Water Quality Division. The permittee shall obtain written approval from the Chief of the Surface Water Quality Division to discharge such additives at a specified level. The permit may be modified in accordance with the requirements of Part II, Section B-4 if a constituent of the additive or additives requires limiting.

Permit No. MI 0043028

MICHIGAN WATER RESOURCES COMMISSION

AUTHORIZATION TO DISCHARGE UNDER THE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 U.S.C. 1251 et seq; the "Act"), and the Michigan Water Resources Commission Act, as amended, (Act 245, Public Acts of 1929, as amended, the "Michigan Act"),

James River Corporation
Administration Building

is authorized to discharge from a facility located at

243 E. Paterson
Kalamazoo, Michigan 49007

to receiving water named Kalamazoo River via storm sewer

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I and II hereof.

This permit shall become effective on the date of issuance and shall be final in the absence of a request for a hearing filed within 15 days after receipt thereof.

This permit and the authorization to discharge shall expire at midnight, December 31, 1987. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Michigan Water Resources Commission no later than 180 days prior to the date of expiration.

This permit is based on the Company's application dated June 4, 1982, and shall supersede any and all Orders of Determination, Stipulation, or Final Orders of Determination previously adopted by the Michigan Water Resources Commission.

Issued this 31st day of January, 1983, for the Michigan Water Resources Commission.

William D. Marks
Acting Executive Secretary

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. Final Effluent Limitations

During the period beginning upon issuance of this permit and lasting until expiration of this permit, the permittee is authorized to discharge up to three hundred-fifty thousand (350,000) gallons per day of noncontact cooling water from outfall 009 to the Kalamazoo River. Such discharge shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations kg/day (lbs/day) Monthly Average	Daily Maximum	Other Limitations Monthly Average	Daily Maximum	Monitoring Requirements Measurement Frequency	Sample Type
SELF-RETAINED MONITORING (See Part I, B.2.b.)						
Flow, M^3/Day (MGD)					Weekly	Report total daily flow
Outfall Observation*					Weekly	Visual

*Any unusual characteristics of the discharge which would not be expected from noncontact cooling water (e.g., turbidity, discoloration, oil film, suspended solids, etc.) shall be reported immediately to the District Office of the Water Quality Division followed with a written report within 5 days detailing the findings of the investigation and the steps taken to correct the condition.

The term noncontact cooling water shall mean water used for cooling which does not come into direct contact with any raw material, intermediate product, by-product, waste product, or finished product.

a. The discharge shall not cause excessive foam in the receiving waters. The discharge shall be essentially free of floating and settleable solids.

b. The discharge shall not contain oil or other substances in amounts sufficient to create a visible film or sheen on the receiving waters.

c. Samples taken in compliance with the monitoring requirements shall be taken prior to discharge to the storm sewer.

d. In the event the permittee shall require the use of water treatment additives, the permittee shall notify the Chief of the Water Quality Division. The permittee shall obtain written approval from the Chief of the Water Quality Division to use such additives at a specified level. The permit may be modified in accordance with the requirements of Part II, Section A-1 if a constituent of the additive or additives requires limiting.

2. Special Condition

This permit may be modified, or, alternatively revoked and reissued to comply with any applicable standard(s) or limitation(s) promulgated under Sections 301 (b)(2)(C)(D), 304 (b)(2) and 307 (a)(2), if the effluent standard(s) or limitation(s) so promulgated:

(a) is (are) either different in conditions or more stringent than any effluent limitation in the permit; or

(b) control(s) any pollutant not limited in the permit.

Permit No. MI 0006190

MICHIGAN WATER RESOURCES COMMISSION

AUTHORIZATION TO DISCHARGE UNDER THE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 U.S.C. 1251 et seq; the "Act"), and the Michigan Water Resources Commission Act, as amended, (Act 245, Public Acts of 1929, as amended, the "Michigan Act"),

GEORGIA PACIFIC CORPORATION
Kalamazoo Paper Division

is authorized to discharge from a facility located at

2425 King Highway
Kalamazoo, MI 49003

to receiving waters named the Kalamazoo River

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I and II hereof.

This permit shall become effective on the date of issuance.

This permit and the authorization to discharge shall expire at midnight, March 31, 19 85. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Michigan Water Resources Commission no later than 180 days prior to the date of expiration.

This permit is based on the company's application dated October 30, 1978, and shall supersede any and all Orders of Determination, Stipulation, or Final Orders of Determination previously adopted by the Michigan Water Resources Commission.

Issued this 30th day of June, 1980, for the Michigan Water Resources Commission, superseding NPDES Permit No. MI 0006190 expiring April 30, 1979.

Robert J. Courchaine

Robert J. Courchaine
Executive Secretary

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. Final Effluent Limitations

During the period beginning upon issuance of this permit and lasting until expiration of this permit, the permittee is authorized to discharge up to seven million two hundred thousand (7,200,000) gallons per day of mainturbine noncontact cooling water to the Kalamazoo River via outfall 001. Such idscharge shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations: kg/day (lbs/day) Monthly Average	kg/day (lbs/day) Daily Maximum	Other Limitations Monthly Average	Other Limitations Daily Maximum	Monitoring Requirements: Measurement Frequency	Sample Type
Flow, M^3/Day (MGD)					Daily	Total daily flow
Temperature (^oF)						
Intake					Daily	Direct reading
Discharge					Daily	Direct reading
Heat Addition (BTU/Hr.)				$.0685 \times 10^9$	Daily	Calculation
Outfall Observation*					Daily	Visual

The discharge shall not increase the temperature of the Kalamazoo River at the edge of the mixing zone, defined as the right 1/4 of the river extending downstream 1000 feet from the point of discharge, more than 5^oF above the existing natural temperature nor above the following monthly maximum temperatures:

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
41	40	50	63	76	84	85	85	79	68	55	43

*Any unusual characteristics of the discharge which would not be expected from noncontact cooling water (i.e. turbidity, discoloration, oil film, suspended solids, etc.) shall be reported immediately to the District Office of the Water Quality Division, followed with a written report within 5 days detailing the findings of the investigation and the steps taken to correct the condition.

The term noncontact cooling water shall mean water used for cooling which does not come into direct contact with any raw material, intermediate product, by product, waste product, or finished product.

a. The pH shall not be less than 6.0 nor greater than 9.0. The pH shall be monitored as follows: twice monthly; grab.

b. The discharge shall not cause excessive foam in the receiving waters. The discharge shall be essentially free of floating and settleable solids.

c. The discharge shall not contain oil or other substances in amounts sufficient to create a visible film or sheen on the receiving waters.

d. Samples taken in compliance with the monitoring requirements above shall be taken at outfall 001 prior to discharge to the Kalamazoo River.

e. In the event the permittee shall require the use of Water Treatment additives, the permittee shall notify the Michigan Water Resources Commission in accordance with the requirements of Part II, Section A.1

2. Final Effluent Limitations

During the period beginning upon the issuance of this permit and lasting until the expiration of this permit, the permittee is authorized to discharge an undetermined amount of turbine intake bar screen shower water from outfall 002 and filter plant inlet shower screen water from outfall 003. Such discharge shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations kg/day (lbs/day) Monthly Average	Discharge Limitations kg/day (lbs/day) Daily Maximum	Discharge Limitations Other Limitations Monthly Average	Discharge Limitations Other Limitations Daily Maximum	Monitoring Requirements Measurement Frequency	Monitoring Requirements Sample Type
Accumulated Trash*					Daily	Visual

* The permittee shall collect and remove debris accumulated on intake trash bars and screens and dispose of such material onland in an appropriate manner.

a. The discharge shall not cause excessive foam in the receiving waters. The discharge shall be essentially free of floating and settleable solids.

b. The discharge shall not contain oil or other substances in amounts sufficient to create a visible film or sheen on the receiving waters.

c. Samples taken in compliance with the monitoring requirements above shall be taken made prior to discharge to Kalamazoo River

PERMIT NO. MI0005819

MICHIGAN WATER RESOURCES COMMISSION
AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 U.S.C. 1251 et seq; the "Act"), and the Michigan Water Resources Commission Act, as amended, (Act 245, Public Acts of 1929, as amended, the "Michigan Act"),

Checker Motors Corporation
2016 North Pitcher Street
Kalamazoo, Michigan 49007

is authorized to discharge from a facility located at

2016 North Pitcher Street
Kalamazoo, Michigan 49007

designated as Checker Motors Corp

to the receiving water named the Kalamazoo River, via a storm sewer in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I and II hereof.

This permit takes effect immediately upon the date of issuance. Any person who feels aggrieved by this permit may file a sworn petition with the Commission, setting forth the conditions of the permit which are being challenged and specifying the grounds for the challenge. The Commission may reject any petition filed more than 60 days after issuance as being untimely. Upon granting of a contested case to the applicant, the Commission shall review the permit to determine which contested term shall be stayed until the Commission takes its final action. All other conditions of the permit remain in full effect. If the contested condition is a modification of a previous permit condition and the Commission determines the contested condition shall be stayed, then such previous condition remains in effect until the Commission takes final action. During the course of any administrative proceeding brought by a person other than the applicant, the conditions of this permit will remain in effect, unless the Commission determines otherwise.

This permit and the authorization to discharge shall expire at midnight October 1, 1990. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Michigan Water Resources Commission no later than 180 days prior to the date of expiration.

This permit is based on an application dated January 14, 1987, and shall supersede any and all Orders of Determination, Stipulation, Final Orders of Determination, or NPDES permits previously adopted by the Michigan Water Resources Commission.

Issued this 21st day of May, 1987, by the Michigan Water Resources Commission superseding NPDES Permit No. MI0005819, expiring March 31, 1987.

Paul D. Zugger
Executive Secretary

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. Final Effluent Limitations

During the period beginning on the effective date of this permit and lasting until the expiration date of this permit, the permittee is authorized to discharge up to a maximum of one million two hundred thousand (1,200,000) gallons per day of noncontact cooling water and stormwater from outfalls 001 and 002 to the Kalamazoo River, via a storm sewer. Each discharge shall be limited and monitored by the permittee as specified below:

	Discharge Limitations				Monitoring Requirements	
	lbs/day		Other Limitations			
Effluent Characteristic	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum	Measurement Frequency	Sample Type
Flow (MGD)					Weekly	Report Total Daily Flow
Temperature					Weekly	Reading
Outfall Observation					Daily	Visual

a. The receiving stream shall contain no unnatural turbidity, color, oil film, floating solids, foams, settleable solids, or deposits as a result of this discharge.

b. Samples, measurements, and observations taken in compliance with the monitoring requirements above shall be taken prior to discharging to the storm sewer.

c. Any unusual characteristics of the discharge (i.e., unnatural turbidity, color, oil film, floating solids, foams, settleable solids or deposits) shall be reported immediately to the Plainwell District Office of the Surface Water Quality Division followed with a written report within 5 days detailing the findings of the investigation and the steps taken to correct the condition.

d. In the event the permittee shall require the discharge of water treatment additives, the permittee shall notify the Chief of the Surface Water Quality Division. The permittee shall obtain written approval from the Chief of the Surface Water Quality Division to discharge such additives at a specified level. The permit may be modified in accordance with the requirements of Part II.B.4 if a constituent of the additive or additives requires limiting.

e. The term noncontact cooling water shall mean water used for cooling which does not come into direct contact with any raw material, intermediate product, by-product, waste product, or finished product.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. Final Effluent Limitations

During the period beginning on the effective date of this permit and lasting until the expiration date of this permit, the permittee is authorized to discharge a maximum of seventy five thousand (75,000) gallons per day of noncontact cooling water from outfall 001 to the Kalamazoo River via storm sewers. Such discharge shall be limited and monitored by the permittee as specified below:

	Discharge Limitations				Monitoring Requirements	
	lbs/day		Other Limitations			
Effluent Characteristic	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum	Measurement Frequency	Sample Type
Retained Self-Monitoring Requirements (See Part I.B.2.a., Page 4 of 11)						
Flow (MGD)					Weekly	Report Total Daily Flow
Outfall Observation					Daily	Visual

a. The receiving stream shall contain no unnatural turbidity, color, oil film, floating solids, foams, settleable solids, or deposits as a result of this discharge.

b. Samples, measurements, and observations taken in compliance with the monitoring requirements above shall be taken at outfall 001 prior to discharge to the storm sewer system.

c. Any unusual characteristics of the discharge (i.e., unnatural turbidity, color, oil film, floating solids, foams, settleable solids or deposits) shall be reported immediately to the Plainwell District Office of the Surface Water Quality Division followed with a written report within 5 days detailing the findings of the investigation and the steps taken to correct the condition.

d. In the event the permittee shall require the discharge of water treatment additives, the permittee shall notify the Chief of the Surface Water Quality Division. The permittee shall obtain written approval from the Chief of the Surface Water Quality Division to discharge such additives at a specified level. The permit may be modified in accordance with the requirements of Part II.B.4 if a constituent of the additive or additives requires limiting.

e. The term noncontact cooling water shall mean water used for cooling which does not come into direct contact with any raw material, intermediate product, by-product, waste product, or finished product.

PERMIT NO. MI0045926

MICHIGAN WATER RESOURCES COMMISSION
AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251 et seq; the "Act"), and the Michigan Water Resources Commission Act, as amended, (Act 245, Public Acts of 1929, as amended, the "Michigan Act"),

Kalamazoo Stamping and Die Company
1815 Palmer Avenue
Kalamazoo, Michigan 49001

is authorized to discharge from a facility located at

1815 Palmer Avenue
Kalamazoo, Michigan 49001

designated as Kalamazoo Stamping and Die Co

to the receiving water named the Kalamazoo River via storm sewers in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I and II hereof.

This permit for a new use takes immediate effect on the date of issuance, unless the applicant either administratively or judicially challenges any condition of this permit, in which case the entire permit is stayed and all authorizations explicitly or implicitly contained in the permit cease. Any person who feels aggrieved by this permit may file a sworn petition with the Commission, setting forth the conditions of the permit which are being challenged and specifying the grounds for the challenge. The Commission may reject any petition filed more than 60 days after issuance as being untimely. During the course of any administrative proceeding brought by a person other than the applicant, the conditions of this permit will remain in effect, unless the Commission determines otherwise.

This permit and the authorization to discharge shall expire at midnight August 31, 1992. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Michigan Water Resources Commission no later than 180 days prior to the date of expiration.

This permit is based on the Company's application submitted on May 28, 1987.

Issued this 17th day of September, 1987, by the Michigan Water Resources Commission.

Paul D. Zugger
Executive Secretary

2. Final Effluent Limitations

Beginning upon the issuance of this permit and lasting until the expiration of this permit, the permittee is authorized to discharge an unspecified quantity of stormwater runoff from outfall 003 and 004 to the Kalamazoo River. Such discharge shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations kg/day (lbs/day) Monthly Average	Daily Maximum	Other Limitations Monthly Average	Daily Maximum	Monitoring Requirements Measurement Frequency	Sample Type
Self-Retained Monitoring Requirements (See page 5 of 7, Part I-B, 2.b.)						
Outfall Observation**					Weekly*	Visual

*During discharge.

**Any unusual characteristics of the discharge (i.e., unnatural turbidity, color, oil film, floating solids, foams, settleable solids, or deposits) shall be reported immediately to the District Office of the Surface Water Quality Division followed with a written report within 5 days detailing the findings of the investigation and the steps taken to correct the condition.

a. The receiving stream shall contain no unnatural turbidity, color, oil film, floating solids, foams, settleable solids, or deposits as a result of this discharge.

b. Observations made in compliance with the monitoring requirements above shall be made at outfall 003 and 004 prior to discharge into the Kalamazoo River.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. Final Effluent Limitations

Beginning upon the issuance of this permit and lasting until the expiration of this permit, the permittee is authorized to discharge up to sixty thousand (60,000) gallons per day of noncontact cooling water and an unspecified quantity of stormwater runoff from outfall 002 to the Kalamazoo River. Such discharge shall be monitored and limited by the permittee as specified below:

Effluent Characteristic	Discharge Limitations kg/day (lbs/day) Monthly Average	Daily Maximum	Other Limitations Monthly Average	Daily Maximum	Monitoring Requirements Measurement Frequency	Sample Type
Retained Self-Monitoring Requirements (See page 5 of 7, Part I-B,2.b.)						
Flow, M^3/Day (MGD)					Daily	Report total daily flow
Temperature (^oF)					Monthly	Direct reading
Outfall Observation*					Daily	Visual

*Any unusual characteristics of the discharge (i.e., unnatural turbidity, color, oil film, floating solids, foams, settleable solids, or deposits) shall be reported immediately to the District Office of the Surface Water Quality Division followed with a written report within 5 days detailing the findings of the investigation and the steps taken to correct the condition.

The term noncontact cooling water shall mean water used for cooling which does not come into direct contact with any raw material, intermediate product, by-product, waste product, or finished product.

a. The receiving stream shall contain no unnatural turbidity, color, oil film, floating solids, foams, settleable solids, or deposits as a result of this discharge.

b. Samples, measurements, and observations taken in compliance with the monitoring requirements above shall be taken at outfall 002 prior to discharge into the Kalamazoo River.

c. In the event the permittee shall require the discharge of water treatment additives, the permittee shall notify the Chief of the Surface Water Quality Division. The permittee shall obtain written approval from the Chief of the Surface Water Quality Division to discharge such additives at a specified level. The permit may be modified in accordance with the requirements of Part II, Section B-4 if a constituent of the additive or additives requires limiting.

WAS/wopu

Permit No. MI 0000914

MICHIGAN WATER RESOURCES COMMISSION
AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provision of the Federal Water Pollution Control Act, as amended, 33, U.S.C. 1251 et seq; the "Act"), and the Michigan Water Resources Commission Act, as amended, (Act 245, Public Acts of 1929, as amended, the "Michigan Act"),

Hercules Incorporated
Kalamazoo Plant
910 Market Street
Wilmington, Delaware 19899

is authorized to discharge from a facility located at

411 Hercules Avenue
Parchment, Michigan 49004

designated as Hercules Specialty Chemical
to receiving water named the Kalamazoo River

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I and II hereof.

This permit takes effect immediately upon the date of issuance. Any person who feels aggrieved by this permit may file a sworn petition with the Commission, setting forth the conditions of the permit which are being challenged and specifying the grounds for the challenge. The Commission may reject any petition filed more than 60 days after issuance as being untimely. Upon granting of a contested case to the applicant, the Commission shall review the permit to determine which contested terms shall be stayed until the Commission takes its final action. All other conditions of the permit remain in full effect. If the contested condition is a modification of a previous permit condition and the Commission determines the contested condition shall be stayed, then such previous condition remains in effect until the Commission takes final action. During the course of any administrative proceeding brought by a person other than the applicant, the conditions of this permit will remain in effect, unless the Commission determines otherwise.

This permit and the authorization to discharge shall expire at midnight January 31, 1991. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Michigan Water Resources Commission no later than 180 days prior to the date of expiration.

This permit is based on an application dated May 23, 1985, and shall supersede any and all Orders of Determination, Stipulation, Final Orders of Determination, or NPDES Permits previously adopted by the Michigan Water Resources Commission.

Issued this 21st day of April 1986, by the Michigan Water Resources Commission superseding NPDES Permit No. MI 0000914, expiring February 28, 1986.

Paul D. Zugger
Executive Secretary

Reissue

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. Final Effluent Limitations

During the period beginning upon the date of issuance of this permit and lasting until the date of expiration of this permit, the permittee is authorized to discharge a maximum of three hundred twenty thousand (320,000) gallons per day of accumulated groundwater and foundation footing drainage from outfall 001 to Portage Creek via storm sewer. Such discharge shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations kg/day (lbs/day) Monthly Average	Daily Maximum	Other Limitations Monthly Average	Daily Maximum	Monitoring Requirements Measurement Frequency	Sample Type
Retained Self-Monitoring Requirements (See Part I-B,2.b., page 4 of 6)						
Flow, M^3/Day (MGD)					Weekly	
Outfall Observation*					Weekly	Visual

*Any unusual characteristics of the discharge (i.e., unnatural turbidity, color, oil film, floating solids, foams, settleable solids, or deposits) shall be reported immediately to the District Office of the Surface Water Quality Division followed with a written report within 5 days detailing the findings of the investigation and the steps taken to correct the condition.

a. The discharge shall not cause excessive foam in the receiving waters. The discharge shall be essentially free of floating and settleable solids.

b. The discharge shall not contain oil or other substances in amounts sufficient to create a visible film or sheen on the receiving waters.

c. Samples, measurements, and observations taken in compliance with the monitoring requirements above shall be taken at the on-site sump prior to discharge to the city storm sewer.

Permit No. MI 0044288

MICHIGAN WATER RESOURCES COMMISSION

AUTHORIZATION TO DISCHARGE UNDER THE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251 et seq; the "Act"), and the Michigan Water Resources Commission Act, as amended, (Act 245, Public Acts of 1929, as amended, the "Michigan Act",

Beecham Group
Beecham Home Improvement Products

is authorized to discharge from a facility located at

2305 Superior Avenue
Kalamazoo, Michigan 49001

to receiving water named Portage Creek via storm sewer

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I and II hereof.

This permit for new use takes immediate effect on the date of issuance, unless the applicant either administratively or judicially challenges any condition of this permit, in which case the entire permit is stayed and all authorizations explicitly or implicitly contained in the permit cease. Any person who feels aggrieved by this permit may file a sworn petition with the Commission, setting forth the conditions of the permit which are being challenged and specifying the grounds for the challenge. The Commission may reject any petition filed more than 60 days after issuance as being untimely. During the course of any administrative proceeding brought by a person other than the applicant, the conditions of this permit will remain in effect, unless the Commission determines otherwise.

This permit and the authorization to discharge shall expire at midnight June 30, 1990. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Michigan Water Resources Commission no later than 180 days prior to the date of expiration.

This permit is based on the Company's application dated March 26, 1985.

Issued this 12th day of September 1985, by the Michigan Water Resources Commission.

Paul D. Zugger
Executive Secretary

New Use

2. Final Effluent Limitations

During the period beginning October 1, 1985, and lasting until expiration of this permit, the permittee is authorized to discharge up to three million five hundred thousand (3,500,000) gallons per day of treated process wastewater from outfall 002 to the Portage Creek. Such discharge shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations kg/day (lbs/day) Monthly Average	Daily Maximum	Other Limitations Monthly Average	Daily Maximum	Monitoring Requirements Measurement Frequency	Sample Type
Flow, M^3/Day (MGD)					Daily	Report total daily flow
Settleable Solids (mg/l)					Weekly	Grab
Biochemical Oxygen Demand (BOD_5)						
(May 1-September 30)		177(389)			Daily	24-Hr. Composite
(October-April 30)		380(836)			Daily	24-Hr. Composite
Total Suspended Solids (TSS)						
(May 1-September 30)		230(500)			Daily	24-Hr. Composite
(Oct. 1-April 30)	247(543)	380(836)			Daily	24-Hr. Composite
Outfall Observation*					Dialy	Visual

*Any unusual characteristics of the discharge which would not be expected from the above authorized discharge (e.g., turbidity, discoloration, oil film, suspended matter, etc.) shall be reported immediately to the District Office of the Surface Water Quality Division followed with a written report within 5 days detailing the findings of the investigation and the steps taken to correct the condition.

a. The pH shall not be less than 5.0 nor greater than 9.0. The pH shall be monitored as follows: daily; grab.

b. The discharge shall not cause excessive foam in the receiving waters. The discharge shall be essentially free of floating and settleable solids.

c. The discharge shall not contain oil or other substances in amounts sufficient to create a visible film or sheen on the receiving waters.

d. Samples and observations taken in compliance with the monitoring requirements above shall be taken prior to discharge to Portage Creek.

e. In the event the permittee shall require the discharge of wastewater treatment additives at the wastewater treatment plant in addition to any previously approved by the Chief of the Surface Water Quality Division, the permittee shall notify the Division Chief. Written approval from the Chief of the Surface Water Quality Division to discharge such additives at specified levels shall be obtained prior to usage by the permittee. The permit will be modified in accordance with the requirements of Part II, Section B-4 if a constituent of the additives requires limiting.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. Initial Effluent Limitations

During the period beginning upon issuance of this permit and lasting until September 30, 1985, the permittee is authorized to discharge up to three million five hundred thousand (3,500,000) gallons per day of treated process wastewater from outfall 002 to the Portage Creek. Such discharge shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations kg/day (lbs/day) Monthly Average	Discharge Limitations kg/day (lbs/day) Daily Maximum	Other Limitations Monthly Average	Other Limitations Daily Maximum	Monitoring Requirements Measurement Frequency	Monitoring Requirements Sample Type
Flow, M^3/Day (MGD)					Daily	Report total daily flow
Settleable Solids (mg/l)					Weekly	Grab
Biochemical Oxygen Demand (BOD_5)						
(May 1-October 31)		177(389)			Daily	24-Hr. Composite
(November 1-April 30)		380(836)			Daily	24-Hr. Composite
Total Suspended Solids (TSS)						
(May 1-October 31)		230(500)			Daily	24-Hr. Composite
(November 1-Apr.30)	247(543)	380(836)			Daily	24-Hr. Composite
Outfall Observation*					Daily	Visual

*Any unusual characteristics of the discharge which would not be expected from the above authorized discharge (e.g., turbidity, discoloration, oil film, suspended matter, etc.) shall be reported immediately to the District Office of the Surface Water Quality Division followed with a written report within 5 days detailing the findings of the investigation and the steps taken to correct the condition.

a. The pH shall not be less than 5.0 nor greater than 9.0. The pH shall be monitored as follows: daily; grab.

b. The discharge shall not cause excessive foam in the receiving waters. The discharge shall be essentially free of floating and settleable solids.

c. The discharge shall not contain oil or other substances in amounts sufficient to create a visible film or sheen on the receiving waters.

d. Samples and observations taken in compliance with the monitoring requirements above shall be taken prior to discharge to Portage Creek.

e. In the event the permittee shall require the discharge of wastewater treatment additives at the wastewater treatment plant in addition to any previously approved by the Chief of the Surface Water Quality Division, the permittee shall notify the Division Chief. Written approval from the Chief of the Surface Water Quality Division to discharge such additives at specified levels shall be obtained prior to usage by the permittee. The permit will be modified in accordance with the requirements of Part II, Section B-4 if a constituent of the additives requires limiting.

Permit No. MI 0000779

MICHIGAN WATER RESOURCES COMMISSION

AUTHORIZATION TO DISCHARGE UNDER THE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provision of the Federal Water Pollution Control Act, as amended, (33 U.S.C. 1251 et seq; the "Act"), and the Michigan Water Resources Commission Act, as amended, (Act 245, Public Acts of 1929, as amended, the "Michigan Act"),

Allied Paper, Inc.
Bryant Mill

ia authorized to discharge from a facility located at

2030 Portage Street
Kalamazoo, Michigan 49001

to receiving water named Portage Creek

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I and II hereof.

This permit takes effect immediately upon the date of issuance. Any person who feels aggrieved by this permit may file a sworn petition with the Commission, setting forth the conditions of the permit which are being challenged and specifying the grounds for the challenge. The Commission may reject any petition filed more than 60 days after issuance as being untimely. Upon granting of a contested case to the applicant, the Commission shall review the permit to determine which contested terms shall be stayed until the Commission takes its final action. All other conditions of the permit remain in full effect. If the contested condition is a modification of a previous permit condition and the Commission determines the contested condition shall be stayed, then such previous condition remains in effect until the Commission takes final action. During the course of any administrative proceeding brought by a person other than the applicant, the conditions of this permit will remain in effect, unless the Commission determines otherwise.

This permit and the authorization to discharge shall expire at midnight March 31, 1989. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Michigan Water Resources Commission no later than 180 days prior to the date of expiration.

This permit is based on an application dated April 24, 1979 and updated June 9, 1980, December 18, 1981, June 14, 1982, June 29, 1982, November 15, 1982 and November 30, 1983, and shall supersede any and all Orders of Determination, Stipulation, Final Orders of Determination, or NPDES Permits previously adopted by the Michigan Water Resources Commission.

Issued this 17th day of January 1985, by the Michigan Water Resources Commission, superseding NPDES Permit No. MI 0000779 issued December 20, 1974 with an expiration date of September 30, 1979.

Paul D. Zugger
Executive Secretary

Reissue

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. Final Effluent Limitations

During the period beginning upon the issuance date of this permit and lasting until the expiration date of this permit, the permittee is authorized to discharge a maximum of six hundred thousand (600,000) gallons per day of noncontact cooling water from air conditioners and test stand oil coolers , and an unspecified quantity of stormwater from outfall 001 to the Kalamazoo River. Such discharge shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations kg/day (lbs/day) Monthly Average	Discharge Limitations kg/day (lbs/day) Daily Maximum	Discharge Limitations Other Limitations Monthly Average	Discharge Limitations Other Limitations Daily Maximum	Monitoring Requirements Measurement Frequency	Monitoring Requirements Sample Type
Flow, M^3/Day (MGD)					Weekly	Total daily flow
Oil and Grease				10 mg/l	Weekly	Grab
Temperature (^oF)					Weekly	Reading
Outfall Observation*					Daily	Visual

*Any unusual characteristics of the discharge (i.e., unnatural turbidity, color, oil film, floating solids, foams, settleable solids, or deposits) shall be reported immediately to the District Office of the Surface Water Quality Division followed with a written report within 5 days detailing the findings of the investigation and the steps taken to correct the condition.

The term noncontact cooling water shall mean water used for cooling which does not come into direct contact with any raw material, intermediate product, by-product, waste product, or finished product.

a. The pH shall not be less than 6.0 nor greater than 9.0 . The pH shall be monitored as follows: monthly; grab.

b. The receiving stream shall contain no unnatural turbidity, color, oil film, floating solids, foams, settleable solids, or deposits as a result of this discharge.

c. Samples, measurements, and observations taken in compliance with the monitoring requirements above shall be taken at outfall 001 prior to discharge to drainage ditch going to the Kalamazoo River.

d. In the event the permittee shall require the discharge of water treatment additives, the permittee shall notify the Chief of the Surface Water Quality Division. The permittee shall obtain written approval from the Chief of the Surface Water Quality Division to discharge such additives at a specified level. The permit may be modified in accordance with the requirements of Part II, Section B-4 if a constituent of the additive or additives requires limiting.

Permit No. MI 0005126

MICHIGAN WATER RESOURCES COMMISSION
AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provision of the Federal Water Pollution Control Act, as amended, (33, U.S.C. 1251 et seq; the "Act"), and the Michigan Water Resources Commission Act, as amended, (Act 245, Public Acts of 1929, as amended, the "Michigan Act"),

General Signal Corporation
Hydreco Unit

is authorized to discharge from a facility located at

9000 East Michigan Avenue
Kalamazoo, Michigan 49003

designated as General Signal-Hydreco
to receiving water named Kalamazoo River via drainage ditch

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I and II hereof.

This permit takes effect immediately upon the date of issuance. Any person who feels aggrieved by this permit may file a sworn petition with the Commission, setting forth the conditions of the permit which are being challenged and specifying the grounds for challenge. The Commission may reject any petition filed more than 60 days after issuance as being untimely. Upon granting of a contested case to the applicant, the Commission shall review the permit to determine which contested terms shall be stayed until the Commission takes its final action. All other conditions of the permit remain in full effect. If the contested condition is a modification of a previous permit condition and the Commission determines the contested condition shall be stayed, then such previous condition remains in effect until the Commission takes final action. During the course of any administrative proceeding brought by a person other than the applicant, the conditions of this permit will remain in effect, unless the Commission determines otherwise.

This permit and the authorization to discharge shall expire at midnight October 1, 1990. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Michigan Water Resources Commission no later than 180 days prior to the date of expiration.

This permit is based on an application dated May 25, 1985, and shall supersede any and all Orders of Determination, Stipulation, Final Orders of Determination, or NPDES Permits previously adopted by the Michigan Water Resources Commission.

Issued this 20th day of November 1986, by the Michigan Water Resources Commission superseding NPDES Permit No. MI 0005126, expiring February 29, 1984.

Paul D. Zugger
Executive Secretary

Reissue

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. Final Effluent Limitations

During the period beginning on the effective date of this permit and lasting until the expiration date of this permit, the permittee is authorized to discharge up to two hundred fifty thousand (250,000) gallons per day of noncontact cooling water and stormwater from outfall 001 to Travis Creek, tributary to the Kalamazoo River. Such discharge shall be limited and monitored by the permittee as specified below:

	Discharge Limitations				Monitoring Requirements	
	lbs/day		Other Limitations			
Effluent Characteristic	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum	Measurement Frequency	Sample Type
Retained Self-Monitoring Requirements (see Part I.B.2)						
Flow (MGD)					Weekly	Report Total Daily Flow*
Outfall Observation					Daily	Visual

* Flow to be determined based on estimation of non-contact cooling water usage

a. The receiving stream shall contain no unnatural turbidity, color, oil film, floating solids, foams, settleable solids, or deposits as a result of this discharge.

b. Samples, measurements, and observations taken in compliance with the monitoring requirements above shall be taken prior to discharging to Travis Creek.

c. Any unusual characteristics of the discharge (i.e., unnatural turbidity, color, oil film, floating solids, foams, settleable solids or deposits) shall be reported immediately to the Plainwell District Office of the Surface Water Quality Division followed with a written report within 5 days detailing the findings of the investigation and the steps taken to correct the condition.

d. In the event the permittee shall require the discharge of water treatment additives, the permittee shall notify the Chief of the Surface Water Quality Division. The permittee shall obtain written approval from the Chief of the Surface Water Quality Division to discharge such additives at a specified level. The permit may be modified in accordance with the requirements of Part II.B.4 if a constituent of the additive or additives requires limiting.

e. The term noncontact cooling water shall mean water used for cooling which does not come into direct contact with any raw material, intermediate product, by-product, waste product, or finished product.

PERMIT NO. MI0025275

MICHIGAN WATER RESOURCES COMMISSION
AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 U.S.C. 1251 et seq; the "Act"), and the Michigan Water Resources Commission Act, as amended, (Act 245, Public Acts of 1929, as amended, the "Michigan Act"),

Wells Aluminum Corporation
North American Aluminum Corporation
5575 North Riverview Drive
Kalamazoo, Michigan 49004

is authorized to discharge from a facility located at

5575 North Riverview Drive
Kalamazoo, Michigan 49004

designated as Wells Corp-N Amer Aluminum

to the receiving water named the Travis Creek, tributary to the Kalamazoo River in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I and II hereof.

This permit takes effect immediately upon the date of issuance. Any person who feels aggrieved by this permit may file a sworn petition with the Commission, setting forth the conditions of the permit which are being challenged and specifying the grounds for the challenge. The Commission may reject any petition filed more than 60 days after issuance as being untimely. Upon granting of a contested case to the applicant, the Commission shall review the permit to determine which contested term shall be stayed until the Commission takes its final action. All other conditions of the permit remain in full effect. If the contested condition is a modification of a previous permit condition and the Commission determines the contested condition shall be stayed, then such previous condition remains in effect until the Commission takes final action. During the course of any administrative proceeding brought by a person other than the applicant, the conditions of this permit will remain in effect, unless the Commission determines otherwise.

This permit and the authorization to discharge shall expire at midnight October 1, 1990. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Michigan Water Resources Commission no later than 180 days prior to the date of expiration.

This permit is based on an application dated January 27, 1987, and shall supersede any and all Orders of Determination, Stipulation, Final Orders of Determination, or NPDES permits previously adopted by the Michigan Water Resources Commission.

Issued this 21st day of May, 1987, by the Michigan Water Resources Commission superseding NPDES Permit No. MI0025275, expiring July 31, 1987.

Paul D. Zugger
Executive Secretary

Permit No. MI 0042650

MICHIGAN WATER RESOURCES COMMISSION

AUTHORIZATION TO DISCHARGE UNDER THE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 U.S.C. 1251 et seq; the "Act"), and the Michigan Water Resources Commission Act, as amended, (Act 245, Public Acts of 1929, as amended, the "Michigan Act"),

Kalamazoo City Water Department
415 Stockbridge
Kalamazoo, Michigan 49001

is authorized to discharge from a facility located at

Central well field
1312 S. Burdick
Kalamazoo, MI 49001
NE 1/4, SW 1/4 of Section 22, T2S, R11W
Kalamazoo Twp., Kalamazoo County

to receiving water named **Portage Creek via Axtell Creek**

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I and II hereof.

This permit shall become effective on the date of issuance and shall be final in the absence of a request for a hearing filed within 15 days after receipt thereof.

This permit and the authorization to discharge shall expire at midnight, December 31, 1987. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Michigan Water Resources Commission no later than 180 days prior to the date of expiration.

This permit is based on the Company's application dated March 19, 1981, and shall supersede any and all Orders of Determination, Stipulation, or Final Orders of Determination previously adopted by the Michigan Water Resources Commission.

Issued this 20th day of January, 1983, for the Michigan Water Resources Commission.

William D. Marks
Acting Executive Secretary

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. Final Effluent Limitations

During the period beginning upon issuance of this permit and lasting until expiration of this permit, the permittee is authorized to discharge an estimated maximum flow of two million (2,000,000) gallons per day of purge water from wells C-1-2 and C-1-7 to Portage Creek via Axtell Creek and city storm sewer from outfall 001. Such discharge shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations kg/day (lbs/day) Monthly Average	Discharge Limitations kg/day (lbs/day) Daily Maximum	Other Limitations Monthly Average	Other Limitations Daily Maximum	Monitoring Requirements Measurement Frequency	Monitoring Requirements Sample Type
Flow, M^3/Day (MGD)					Weekly	Calculation (Report total daily flow)
Tetrachloroethylene (Perchloroethylene)					2x Monthly*	Grab

*If any sample exceeds the geometric mean of the preceding five samples by 50%, the frequency shall be increased to once weekly.

a. The discharge shall not cause excessive foam in the receiving waters. The discharge shall be essentially free of floating and settleable solids.

b. The discharge shall not contain oil or other substances in amounts sufficient to create a visible film or sheen on the receiving waters.

c. Samples taken in compliance with the monitoring requirements shall be taken at the discharge of the storm sewer to the Crosstown Parkway pond.

d. In the event the permittee shall require the use of water treatment additives, the permittee shall notify and obtain approval from the Chief of the Water Quality Division in accordance with the requirements of Part II, Section A-1.

Permit No. MI 0028916

MICHIGAN WATER RESOURCES COMMISSION

AUTHORIZATION TO DISCHARGE UNDER THE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 U.S.C. 1251 et seq; the "Act"), and the Michigan Water Resources Commission Act, as amended, (Act 245, Public Acts of 1929, as amended, the "Michigan Act"),

KALAMAZOO CREAMERY COMPANY

is authorized to discharge from a facility located at

706 Lake Street
Kalamazoo, Michigan 49001

to receiving water named Portage Creek via City Storm Sewer

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I and II hereof.

This permit shall become effective on the date of issuance and shall be final in the absence of a request for a hearing filed within 15 days after receipt thereof.

This permit and the authorization to discharge shall expire at midnight, June 30, ____, 1985. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Michigan Water Resources Commission no later than 180 days prior to the date of expiration.

This permit is based on the company's application dated May 23, 1979, and shall supersede any and all Orders of Determination, Stipulation, or Final Orders of Determination previously adopted by the Michigan Water Resources Commission.

Issued this 23rd day of September, 1980, for the Michigan Water Resources Commission, superseding NPDES Permit No. MI 0028916 expiring November 30, 1979.

Robert J. Courchaine

Robert J. Courchaine
Executive Secretary

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. Initial Effluent Limitations

During the period beginning upon issuance of this permit and lasting until July 31, 1981, the permittee is authorized to discharge a maximum of two hundred fifty thousand (250,000) gallons per day of noncontact and contact cooling water and an undetermined amount of stormwater from outfall 001 to Portage Creek via municipal storm sewer. Such discharge shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations kg/day (lbs/day) Monthly Average	Daily Maximum	Other Limitations Monthly Average	Daily Maximum	Monitoring Requirements Measurement Frequency	Sample Type
Flow, M^3/Day (MGD)					Weekly	Total Daily Flow
BOD_5				10 mg/l	Twice Monthly	Grab
Outfall Observation*					Daily	Visual
Total Residual Chlorine (mg/l)**				1.0 mg/l	Weekly	Grab

* Any unusual characteristics of the discharge which would not be expected from non-contact cooling water (i.e. turbidity, discoloration, oil film, suspended matter, etc.) shall be reported immediately to the district office of the Water Quality Division, followed with a written report within 5 days detailing the findings of the investigation and the steps taken to correct the condition.

** To be measured by the amperometric titration technique or other approved method.

The term noncontact cooling water shall mean water used for cooling which does not come into direct contact with any raw material, intermediate product, by-product, waste product, or finished product.

a. The pH shall not be less than 6.0 nor greater than 9.0. The pH shall be monitored as follows: Weekly Grab.

b. The discharge shall not cause excessive foam in the receiving waters. The discharge shall be essentially free of floating and settleable solids.

c. The discharge shall not contain oil or other substances in amounts sufficient to create a visible film or sheen on the receiving waters.

d. Samples taken in compliance with the monitoring requirements above shall be taken prior to discharging into the numicipal storm sewer for all parameters except total residual chlorine which shall be monitored prior to entering Portage Creek.

e. In the event the permittee shall require the use of Water Treatment additiv in addition to Chlorine at the usage rate(s) specified in the application for this permit, the permittee shall notify and obtain approval from the Chief of the Water Quality Division in accordance with the requirements of Part II, Section A-1.

2. Final Effluent Limitations

During the period beginning August 1, 1981, and lasting until the expiration of this permit, the permittee is authorized to discharge up to two hundred fifty thousand (250,000) gallons per day of treated noncontact and contact cooling water from outfall 001 to Portage Creek via municipal storm sewer. Such discharge shall be limited and monitored as specified below:

Effluent Characteristic	Discharge Limitations kg/day (lbs/day) Monthly Average	Daily Maximum	Other Limitations Monthly Average	Daily Maximum	Monitoring Requirements Measurement Frequency	Sample Type
Flow M^3/Day (MGD)					Weekly	Total Daily Flow
BOD_5				5 mg/l	Twice Monthly	Grab
Total Residual Chlorine *				0.5 mg/l	Weekly	Grab
Outfall Observation **					Daily	Visual

* To be measured by the amperometric titration technique or other approved method.

** Any unusual characteristics of the discharge which would not be expected from noncontact and contact cooling water (i.e. turbidity, discoloration, oil film, suspended matter, etc.) shall be reported immediately to the district office of the Water Quality Division, followed with a written report within 5 days detailing the findings of the investigation and the steps taken to correct the condition.

The term noncontact cooling water shall mean water used for cooling which does not come into direct contact with any raw material, intermediate product, by-product, waste product, or finished product.

a. The pH shall not be less than 6.0 nor greater than 9.0. The pH shall be monitored as follows: Weekly grab.

b. The discharge shall not cause excessive foam in the receiving waters. The discharge shall be essentially free of floating and settleable solids.

c. The discharge shall not contain oil or other substances in amounts sufficient to create a visible film or sheen on the receiving waters.

d. Samples taken in compliance with the monitoring requirements above shall be taken prior to discharging into the municipal storm sewer for all parameters except total residual chlorine which shall be monitored prior to entering Portage Creek.

e. In the event the permittee shall require the use of Water Treatment additives, in addition to chlorine at the usage rate(s) specified in the application for this permit, the permittee shall notify and obtain approval from the Chief of the Water Quality Division in accordance with the requirements of Part II, Section A-1.

Permit No. MI 0003778

MICHIGAN WATER RESOURCES COMMISSION
AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provision of the Federal Water Pollution Control Act, as amended, (33, U.S.C. 1251 et seq; the "Act"), and the Michigan Water Resources Commission Act, as amended, (Act 245, Public Acts of 1929, as amended, the "Michigan Act"),

Lakeside Refining Company

is authorized to discharge from a facility located at

2705 East Cork Street
Kalamazoo, Michigan 49005

to receiving water named Davis Creek

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I and II hereof.

This permit takes effect immediately upon the date of issuance. Any person who feels aggrieved by this permit may file a sworn petition with the Commission, setting forth the conditions of the permit which are being challenged and specifying the grounds for the challenge. The Commission may reject any petition filed more than 60 days after issuance as being untimely. Upon granting of a contested case to the applicant, the Commission shall review the permit to determine which contested terms shall be stayed until the Commission takes its final action. All other conditions of the permit remain in full effect. If the contested condition is a modification of a previous permit condition and the Commission determines the contested condition shall be stayed, then such previous condition remains in effect until the Commission takes final action. During the course of any administrative proceeding brought by a person other than the applicant, the conditions of this permit will remain in effect, unless the Commission determines otherwise.

This permit and the authorization to discharge shall expire at midnight June 30, 1990. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Michigan Water Resources Commission no later than 180 days prior to the date of expiration.

This permit is based on an application dated August 24, 1983, and shall supersede any and all Orders of Determination, Stipulation, Final Orders of Determination, or NPDES Permits previously adopted by the Michigan Water Resources Commission.

Issued this 22nd day of July 1985, by the Michigan Water Resources Commission superseding NPDES Permit No. MI 0003778, expiring June 30, 1979.

Paul D. Zugger
Executive Secretary

Reissue

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. Final Effluent Limitations

During the period beginning upon the date of issuance of this permit and lasting until the date of expiration of this permit, the permittee is authorized to discharge a maximum of one hundred ten thousand (110,000) gallons per day of treated stormwater runoff and yard drainage from outfall 000 to Davis Creek. Such discharge shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations kg/day (lbs/day) Monthly Average	Daily Maximum	Other Limitations Monthly Average	Daily Maximum	Monitoring Requirements Measurement Frequency	Sample Type
Flow M^3/Day (MGD)					Weekly*	Report daily total
BOD_5	5.4 (12)	11.0 (24)			Weekly*	24-hr. Composite
COD	16 (35)	31.8 (70)			Weekly*	24-hr. Composite
Total Suspended Solids	4.1 (9)	6.8 (15)			Weekly*	24-hr. Composite
Oil and Grease				10 mg/l	Weekly*	Grab
Phenols				0.3 mg/l	Monthly*	Grab
Ammonia (as N):						
May - September		1.4 (3)			Weekly*	24-hr. Composite
October - April	3.1(6.8)	5.4(11.9)	7.4 mg/l	13 mg/l	Weekly*	24-hr. Composite
Outfall Observation**					Weekly*	Visual

*During discharge.

**Any unusual characteristics of the discharge (i.e., unnatural turbidity, color, oil film, floating solids, foams, settleable solids, or deposits) shall be reported immediately to the District Office of the Surface Water Quality Division followed with a written report within 5 days detailing the findings of the investigation and the steps taken to correct the condition.

a. The pH shall not be less than 6.0 nor greater than 9.0. The pH shall be monitored as follows: weekly; grab sample.

b. The discharge shall not cause excessive foam in the receiving waters. The discharge shall be essentially free of floating and settleable solids.

c. The discharge shall not contain oil or other substances in amounts sufficient to create a visible film or sheen on the receiving waters.

d. Samples, measurements and observations taken in compliance with the monitoring requirements above shall be taken at outfall 000 prior to mixing with noncontact cooling water from outfall 001.

e. In the event the permittee shall require the discharge of water treatment additives in addition to any previously approved by the Chief of the Surface Water Quality Division, the permittee shall notify the Division Chief. Written approval from the Chief of the Surface Water Quality Division to discharge such additives at specified levels shall be obtained prior to discharge by the permittee. The permit will be modified in accordance with the requirements of Part II, Section B-4 if a constituent of the additive or additives requires limiting.

WAS/pu

2. Final Effluent Limitations

During the period beginning upon the date of issuance of this permit and lasting until the date of expiration of this permit, the permittee is authorized to discharge a maximum of one million, four hundred thousand (1,400,000) gallons per day of noncontact cooling water and treated stormwater runoff/yard drainage from outfall 001 to Davis Creek. Such discharge shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations kg/day (lbs/day) Monthly Average	Daily Maximum	Other Limitations Monthly Average	Daily Maximum	Monitoring Requirements Measurement Frequency	Sample Type
Flow M^3/Day (MGD)					Weekly	Report daily total
Total Organic Carbon				5 mg/l	Weekly	Grab
Dissolved Oxygen	5.0 mg/l Minimum				Weekly	Grab
1,1,1-Trichloroethane	(Monitoring only - see Part I, A. 3., Special Condition)					
Outfall Observation*					Weekly	Visual

*Any unusual characteristics of the discharge (i.e., unnatural turbidity, color, oil film, floating solids, foams, settleable solids, or deposits) shall be reported immediately to the District Office of the Surface Water Quality Division followed with a written report within 5 days detailing the findings of the investigation and the steps taken to correct the condition.

The term noncontact cooling water shall mean water used for cooling which does not come into direct contact with any raw material, intermediate product, by-product, waste product, or finished product.

a. The pH shall not be less than 6.0 nor greater than 9.0 . The pH shall be monitored as follows: weekly; grab sample.

b. The discharge shall not cause excessive foam in the receiving waters. The discharge shall be essentially free of floating and settleable solids.

c. The discharge shall not contain oil or other substances in amounts sufficient to create a visible film or sheen on the receiving waters.

d. Samples, measurements, and observations taken in compliance with the monitoring requirements above shall be taken at outfall 001 prior to discharge to Davis Creek, with the exception of total organic carbon which shall be sampled prior to mixing with treated stormwater runoff/yard drainage.

e. In the event the permittee shall require the discharge of water treatment additives in addition to any previously approved by the Chief of the Surface Water Quality Division, the permittee shall notify the Division Chief. Written approval from the Chief of the Surface Water Quality Division to discharge such additives at specified levels shall be obtained prior to discharge by the permittee. The permit will be modified in accordance with the requirements of Part II, Section B-4 if a constituent of the additive or additives requires limiting.

WAS/pu

Permit No. MI 0042820

MICHIGAN WATER RESOURCES COMMISSION
AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provision of the Federal Water Pollution Control Act, as amended, (33 U.S.C. 1251 et seq; the "Act"), and the Michigan Water Resources Commission Act, as amended, (Act 245, Public Acts of 1929, as amended, the "Michigan Act"),

Michigan Department of Mental Health
Kalamazoo Regional Psychiatric Hospital
Steam and Electric Generating Plant

is authorized to discharge from a facility located at

Box A - 1312 Oakland Drive
Kalamazoo, Michigan 49008

designated as MDMH Kalamazoo Reg Psych Hosp

to receiving water named Arcadia Creek

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I and II hereof.

This permit takes effect immediately upon the date of issuance. Any person who feels aggrieved by this permit may file a sworn petition with the Commission, setting forth the conditions of the permit which are being challenged and specifying the grounds for the challenge. The Commission may reject any petition filed more than 60 days after issuance as being untimely. Upon granting of a contested case to the applicant, the Commission shall review the permit to determine which contested term shall be stayed until the Commission takes its final action. All other conditions of the permit remain in full effect. If the contested condition is a modification of a previous permit condition and the Commission determines the contested condition shall be stayed, then such previous condition remains in effect until the Commission takes final action. During the course of any administrative proceeding brought by a person other than the applicant, the conditions of this permit will remain in effect, unless the Commission determines otherwise.

This permit and the authorization to discharge shall expire at midnight July 31, 1987. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Michigan Water Resources Commission no later than 180 days prior to the date of expiration.

This permit is based on an application dated July 1980, as amended to date, and shall supersede any and all Orders of Determination, Stipulation, Final Orders of Determination, or NPDES Permits previously adopted by the Michigan Water Resources Commission.

Issued this 13th day of September 1982 and modified this 21st day of April 1986, by the Michigan Water Resources Commission.

Paul D. Zugger
Executive Secretary

Modification

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. Final Effluent Limitations

During the period beginning upon the date of issuance of this permit and lasting until the date of expiration of this permit, the permittee is authorized to discharge a maximum of sixty thousand (60,000) gallons per day of noncontact cooling water, boiler blowdown and floor drainage from outfall 001 to Arcadia Creek. Such discharge shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations kg/day (lbs/day) Monthly Average	Daily Maximum	Other Limitations Monthly Average	Daily Maximum	Monitoring Requirements Measurement Frequency	Sample Type
Retained Self-Monitoring Requirements (See Part I-B.2.b., page 7 of 9)						
Flow, M^3/Day (MGD)					Weekly	Report total daily flow
Temperature (^oF)					Weekly	Reading
Outfall Observation*					Weekly	Visual

*Any unusual characteristics of the discharge (i.e., unnatural turbidity, color, oil film, floating solids, foams, settleable solids, or deposits) shall be reported immediately to the District Office of the Surface Water Quality Division followed with a written report within 5 days detailing the findings of the investigation and the steps taken to correct the condition.

The term noncontact cooling water shall mean water used for cooling which does not come into direct contact with any raw material, intermediate product, by-product, waste product, or finished product.

a. The pH shall not be less than 6.0 nor greater than 9.0. The pH shall be monitored as follows: weekly; grab.

b. The receiving stream shall contain no unnatural turbidity, color, oil film, floating solids, foams, settleable solids, or deposits as a result of this discharge.

c. Samples, measurements and observations taken in compliance with the monitoring requirements above shall be taken at outfall 001 prior to discharge to Arcadia Creek.

d. In the event the permittee shall require the discharge of water treatment additives in addition to any previously approved by the Chief of the Surface Water Quality Division, the permittee shall notify the Division Chief. Written approval from the Chief of the Surface Water Quality Divison to discharge such additives at specified levels shall be obtained prior to discharge by the permittee. The permit will be modified in accordance with the requirements of Part II, Section B-4 if a constituent of the additive or additives requires limiting.

WAS/pu

2. Final Effluent Limitations

During the period beginning upon the date of issuance of this permit and lasting until the date of expiration of this permit, the permittee is authorized to discharge a maximum of sixty thousand (60,000) gallons per day of noncontact cooling water, bearing cooling water and stormwater drainage from outfall 002 to Arcadia Creek. Such discharge shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations kg/day (lbs/day) Monthly Average	Discharge Limitations kg/day (lbs/day) Daily Maximum	Other Limitations Monthly Average	Other Limitations Daily Maximum	Monitoring Requirements Measurement Frequency	Monitoring Requirements Sample Type
Retained Self-Monitoring Requirements (See Part I-B, 2.b., page 7 of 9)						
Flow, M^3/Day (MGD)					Weekly	Report total daily flow
Temperature (^oF)					Weekly	Reading
Outfall Observation*					Weekly	Visual

*Any unusual characteristics of the discharge (i.e., unnatural turbidity, color, oil film, floating solids, foams, settleable solids, or deposits) shall be reported immediately to the District Office of the Surface Water Quality Division followed with a written report within 5 days detailing the findings of the investigation and the steps taken to correct the condition.

The term noncontact cooling water shall mean water used for cooling which does not come into direct contact with any raw material, intermediate product, by-product, waste product, or finished product.

a. The pH shall not be less than 6.0 nor greater than 9.0. The pH shall be monitored as follows: weekly; grab.

b. The receiving stream shall contain no unnatural turbidity, color, oil film, floating solids, foams, settleable solids, or deposits as a result of this discharge.

c. Samples, measurements, and observations taken in compliance with the monitoring requirements above shall be taken at outfall 002 prior to discharge to Arcadia Creek.

d. In the event the permittee shall require the discharge of water treatment additives in addition to any previously approved by the Chief of the Surface Water Quality Division, the permittee shall notify the Division Chief. Written approval from the Chief of the Surface Water Quality Division to discharge such additives at specified levels shall be obtained prior to discharge by the permittee. The permit will be modified in accordance with the requirements of Part II, Section B-4 if a constituent of the additive or additives requires limiting.

WAS/pu

3. Special Condition - Coal Pile Runoff

a. The permittee shall implement an interim monitoring program (i.e., frequency, location and type of sampling) for coal pile runoff in accordance with the Schedule of Compliance in Part I, C-2. The interim monitoring program shall be designed to demonstrate whether additional control facilities are necessary to comply with the final effluent limitations of Part I, A-4.

b. Based on the results of the interim monitoring program, the permittee shall develop and receive approval of a coal pile runoff management plan which includes an implementation schedule to meet the final effluent limitations of Part I, A-4. This management plan shall describe, but is not limited to, the following:

1. Final monitoring scheme (i.e., frequency, location and type of sampling) of the runoff for flow rate, total suspended solids, selenium*, mercury* and pH.

2. Plans and specifications for runoff control/treatment facilities if needed to achieve the effluent limitations of Part I, A-4. The management plan and implementation schedule shall be submitted to and receive approval of the Plainwell District Supervisor of the Surface Water Quality Division in accordance with the Schedule of Compliance in Part I, C-2.

*The permittee shall use current EPA methods for analysis.

4. Final Effluent Limitations - Coal Pile Runoff

During the period beginning May 1, 1987, and lasting until the expiration date of this permit, the permittee is authorized to discharge an unspecified amount of coal pile runoff from outfall 003 to Arcadia Creek. Such discharge shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations kg/day (lbs/day) Monthly Average	Daily Maximum	Other Limitations Monthly Average	Daily Maximum	Monitoring Requirements Measurement Frequency	Sample Type
Flow, M^3/Day (MGD)[1]					2	2
Total Suspended Solids				50 mg/l	2	2
Selenium[3] (mg/l)					2	2
Mercury[3] (mg/l)					2	2
pH					2	2
Outfall Observation[4]					2	Visual

[1]Flow resulting from a storm event which bypasses a treatment facility designed to treat volumes up to a once-in-ten-year return period 24-hour duration storm, is not subject to this requirement. During any bypass event, it is the permittee's responsibility to provide data based on local climatological records showing the intensity and duration of the storm event exceeding the volume resulting from a once-in-ten-year period, 24-hour duration storm event.

[2]The final measurement frequency and sample type requirements shall be in accordance with an approved coal pile runoff management plan described in Part I, A-3 of this permit.

[3]The Plainwell District Supervisor of the Surface Water Quality Division may, upon written request from the permittee, provide written authorization to reduce the monitoring frequency or to terminate monitoring. The permittee may reduce or terminate monitoring upon receipt of written authorization from the Plainwell District Supervisor.

[4]Any unusual characteristics of the discharge (i.e., unnatural turbidity, color, oil film, floating solids, foams, settleable solids, or deposits) shall be reported immediately to the District Office of the Surface Water Quality Division followed with a written report within 5 days detailing the findings of the investigation and the steps taken to correct the condition.

5. Special Condition - Elimination of Floor Drain Discharge Through Outfall 001

The permittee shall eliminate the discharge of floor drain wastewater through outfall 001 by connecting the floor drains to the City of Kalamazoo sanitary sewer system. The rerouting of the floor drain discharge shall be completed according to the Schedule of Compliance, Part I, C-3.

Permit No. MI 0038679

MICHIGAN WATER RESOURCES COMMISSION
AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provision of the Federal Water Pollution Control Act, as amended, (33, U.S.C. 1251 et seq; the "Act"), and the Michigan Water Resources Commission Act, as amended, (Act 245, Public Acts of 1929, as amended, the "Michigan Act"),

Kalamazoo Enterprises
(formerly Gibson, Inc.)

is authorized to discharge from a facility located at

225 Parsons Street
Kalamazoo, Michigan 49007

designated as Kalamazoo Enterprises
to receiving water named Kalamazoo River via municipal storm sewer

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I and II hereof.

This permit takes effect immediately upon the date of issuance. Any person who feels aggrieved by this permit may file a sworn petition with the Commission, setting forth the conditions of the permit which are being challenged and specifying the grounds for the challenge. The Commission may reject any petition filed more than 60 days after issuance as being untimely. Upon granting of a contested case to the applicant, the Commission shall review the permit to determine which contested terms shall be stayed until the Commission takes its final action. All other conditions of the permit remain in full effect. If the contested condition is a modification of a previous permit condition and the Commission determines the contested condition shall be stayed, then such previous condition remains in effect until the Commission takes final action. During the course of any administrative proceeding brought by a person other than the applicant, the conditions of this permit will remain in effect, unless the Commission determines otherwise.

This permit and the authorization to discharge shall expire at midnight October 1, 1990. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Michigan Water Resources Commission no later than 180 days prior to the date of expiration.

This permit is based on an application dated May 30, 1985, and shall supersede any and all Orders of Determination, Stipulation, Final Orders of Determination, or NPDES Permits previously adopted by the Michigan Water Resources Commission.

Issued this 20th day of November 1986, by the Michigan Water Resources Commission.

Paul D. Zugger
Executive Secretary

Reissue

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. Final Effluent Limitations

Beginning upon the issuance of this permit and lasting until the expiration of this permit, the permittee is authorized to discharge up to a combined total of three thousand seven hundred (3,700) gallons per day of noncontact cooling water from outfalls 001 and 002 to the Kalamazoo River via municipal storm sewer. Such discharge shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations kg/day (lbs/day) Monthly Average	Daily Maximum	Other Limitations Monthly Average	Daily Maximum	Monitoring Requirements Measurement Frequency	Sample Type
Retained Self-Monitoring Requirements (See page of 4 of 6, Part I.B.2.b.)						
Flow, M^3/Day (MGD)					Weekly	
Outfall Observation*					Weekly	Visual

*Any unusual characteristics of the discharge (i.e., unnatural turbidity, color, oil film, floating solids, foams, settleable solids or deposits) shall be reported immediately to the District Office of the Surface Water Quality Division followed with a written report within 5 days detailing the findings of the investigation and the steps taken to correct the condition.

The term noncontact cooling water shall mean water used for cooling which does not come into direct contact with any raw material, intermediate product, by-product, waste product, or finished product.

a. The receiving stream shall contain no unnatural turbidity, color, oil film, floating solids, foams, settleable solids or deposits as a result of this discharge.

b. Samples, measurements and observations taken in compliance with the monitoring requirements above shall be taken prior to discharge to the Kalamazoo River.

c. In the event the permittee shall require the discharge of water treatment additives, the permittee shall notify the Chief of the Surface Water Quality Division. The permittee shall obtain written approval from the Chief of the Surface Water Quality Division to discharge such additives at a specified level. The permit may be modified in accordance with the requirements of Part II, Section B-4 if a constituent of the additive or additives require limiting.

KAR Laboratories, Inc.
4425 Manchester Road
Kalamazoo, MI 49002

(616) 381-9666

ANALYTICAL REPORT

To: Hart Environmental Management Corp.
3000 Town Center, Suite 315
Southfield, MI 48075

Attn: Robert McLeod

Report Date: 3/31/88

Revision Date: 4/1/88

Laboratory Code: 880441

Re: Analysis of one water sample from the Auto Ion site submitted 3/10/88 by Hart Environmental.

Concentrations are expressed as mg/L

Sample I.D. Auto Ion PW-2 3/9/88	Concentration
Arsenic	<0.02
Barium	<0.5
Cadmium	<0.005
Chromium	0.21
Copper	0.23
Lead	0.05
Mercury	<0.0005
Selenium	<0.01
Silver	<0.005
Zinc	0.70

Respectfully submitted,

KAR Laboratories, Inc.

William H. Bouma, Ph.D.
Director

WHB/crc

2. Special Condition - Reopener Clause

This permit may be modified or, alternatively, revoked and reissued to comply with any applicable standard(s) or limitation(s) promulgated under Section 301(b)(2)(c)(d), 304(b)(2) and 307(a)(2) of the Act, if the effluent standard(s) or limitation(s) so promulgated:

a. is(are) either different in condition or more stringent than any effluent limitation in the permit; or

b. control(s) any pollutant not limited in the permit.

3. Special Condition - Notification Requirement

The discharger shall notify the Chief of the Surface Water Quality Division, in writing, within 10 days of knowing, or having reason to believe, that a change in facility operation, maintenance, or construction has resulted or will result in the discharge of:

a. Detectable levels* of chemicals on the current Michigan Critical Materials Register or priority pollutants or hazardous substances set forth in 40 CFR 122.21, Appendix D, which were not acknowledged in the application** or listed in the application at less than detectable levels.

b. Detectable levels* of any other chemical not listed in the application or listed at less than detection, for which the application specifically requested information.

c. Any chemical at levels greater than five times the average level reported in the application**.

Any other monitoring results obtained as a requirement of this permit shall be reported in accordance with the schedule of compliance.

*The detectable level shall be defined as the Method Detection Limit (MDL) as given in Appendix B to Part 136, Federal Register, Vol. 49, No. 209, October 26, 1984, pp. 43430-31.

**The application dated May 30, 1985.

Permit No. MI 0000205

MICHIGAN WATER RESOURCES COMMISSION
AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
(March 18, 1987 revision of NPDES Permit No. MI 0000205, issued May 21, 1985)

In compliance with the provision of the Federal Water Pollution Control Act, as amended, (33, U.S.C. 1251 et seq; the "Act"), and the Michigan Water Resources Commission Act, as amended, (Act 245, Public Acts of 1929, as amended, the "Michigan Act"),

James River Corporation
KVP Group
(formerly Brown Company)

is authorized to discharge from a facility located at

100 Island Avenue
Parchment, Michigan 49004

designated as James River KVP-Parchment

to receiving water named the Kalamazoo River

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I and II hereof.

This permit takes effect immediately upon the date of issuance. Any person who feels aggrieved by this permit may file a sworn petition with the Commission, setting forth the conditions of the permit which are being challenged and specifying the grounds for the challenge. The Commission may reject any petition filed more than 60 days after issuance as being untimely. Upon granting of a contested case to the applicant, the Commission shall review the permit to determine which contested terms shall be stayed until the Commission takes its final action. All other conditions of the permit remain in full effect. If the contested condition is a modification of a previous permit condition and the Commission determines the contested condition shall be stayed, then such previous condition remains in effect until the Commission takes final action. During the course of any administrative proceeding brought by a person other than the applicant, the conditions of this permit will remain in effect, unless the Commission determines otherwise.

This permit and the authorization to discharge shall expire at midnight March 31, 1990. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Michigan Water Resources Commission no later than 180 days prior to the date of expiration.

This permit is based on an application received May 7, 1979 and updated July 16, 1981 and January 6, 1984, and shall supersede any and all Orders of Determination, Stipulation, Final Orders of Determination, or NPDES Permits previously adopted by the Michigan Water Resources Commission.

Issued this 21st day of May 1985, by the Michigan Water Resources Commission superseding NPDES Permit No. MI 0000205 with an expiration date of October 31, 1979.

Paul D. Zugger
Executive Secretary

Reissue

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. Final Effluent Limitations

During the period beginning upon issuance of this permit and lasting until expiration of this permit, the permittee is authorized to discharge an undetermined amount of intake screen shower water from outfall 003 to the Kalamazoo River. Such discharge shall be limited and monitored by the permittee as specified below:

The permittee shall collect and remove all debris accumulated on the intake screen and dispose of such material on land in an appropriate manner.

2. Final Effluent Limitations

During the period beginning upon issuance of this permit and lasting until expiration of this permit, the permittee is authorized to discharge up to seventeen million (17,000,000) gallons per day of power house noncontact condenser water plus an undetermined amount of stormwater from outfall 007 to the Kalamazoo River. Such discharge shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations kg/day (lbs/day) Monthly Average	Daily Maximum	Other Limitations Monthly Average	Daily Maximum	Monitoring Requirements Measurement Frequency	Sample Type
Flow, M^3/Day (MGD)					Daily	Report Total Daily Flow
Temperature (^oF)						
Intake					Daily	Reading
Discharge					Daily	Reading
Heat Addition				0.100 X 10^9BTU/hr	Daily	Calculation
Outfall Observation[1]					Daily	Visual
Total Residual Chlorine[2]			0.2 mg/l	0.3 mg/l	Daily[3]	4
Chlorine Application Time				120 min/day	Daily	Report application time

[1]Any unusual characteristics of the discharge which would not be expected from the above authorized discharge (e.g., turbidity, discoloration, oil film, suspended matter, etc.) shall be reported immediately to the District Office of the Surface Water Quality Division followed with a written report within 5 days detailing the findings of the investigation and the steps taken to correct the condition.

[2]To be measured by the amperometric titration technique or other methods approved by the Chief of the Surface Water Quality Divison.

[3]When chlorinating.

[4]One grab sample shall be taken at the end of each chlorination cycle. If the TRC concentration is equal to or greater than 0.3 mg/l. then sampling shall be increased to three grab samples equally spaced during each succeeding cycle. Such increased sampling shall continue until each sample in three successive cycles has a TRC concentration less than 0.3 mg/l.

Part I-A-1 (continued)

The permittee may use dechlorination techniques to achieve the applicable limitations using sodium thiosulfate or sodium sulfite or other dechlorinating agents approved by the Chief of the Surface Water Quality Division, as dechlorination reagents. The quantity of reagent used shall be limited to 1.5 times the stoichiometric amount needed for dechlorination. The permittee shall report monthly the quantity of each dechlorination reagent used per day.

The permittee may demonstrate to the Commission that higher concentrations of chlorine are acceptable.

The term noncontact cooling water shall mean water used for cooling which does not come into direct contact with any raw material, intermediate product, by-product, waste product, or finished product.

a. The pH shall not be less than 6.0 nor greater than 9.0. The pH shall be monitored as follows: weekly; grab.

b. The discharge shall not cause excessive foam in the receiving waters. The discharge shall be essentially free of floating and settleable solids.

c. The discharge shall not contain oil or other substances in amounts sufficient to create a visible film or sheen on the receiving waters.

d. Samples, measurements, and observations taken in compliance with the monitoring requirements above shall be taken prior to discharging to the county drain.

e. In the event the permittee shall require the discharge of water treatment additives in addition to any previously approved by the Chief of the Surface Water Quality Division, the permittee shall notify the Division Chief. Written approval from the Chief of the Surface Water Quality Divison to use such additives at specified levels shall be obtained prior to discharge by the permittee. The permit will be modified in accordance with the requirements of Part II, Section B-4 if a constituent of the additive or additives requires limiting.

3. Final Effluent Limitations

During the period beginning upon issuance of this permit, and lasting until expiration of this permit, the permittee is authorized to discharge up to five million eight hundred thousand (5,800,000) gallons per day of treated process wastewater from outfall 008 to the Kalamazoo River via a county drain. Such discharge shall be limited and monitored by the permittee as specified below.

Effluent Characteristic	Discharge Limitations kg/day (lbs/day) Monthly Average	Discharge Limitations kg/day (lbs/day) Daily Maximum	Other Limitations Monthly Average	Other Limitations Daily Maximum	Monitoring Requirements Measurement Frequency	Monitoring Requirements Sample Type
Flow, M^3/Day (MGD)					Daily	Report Total Daily Flow
Biochemical Oxygen Demand (BOD_5) (June 1 - October 31)		277 (500)			Daily	24-Hr. Composite
(November 1 - May 31)		614 (1350)			Daily	24-Hr. Composite
Total Suspended Solids (TSS)	500 (1100)	682 (1500)			Daily	24-Hr. Composite
Total Phosphorus (as P)	22 (48.4)		1.0 mg/l		Weekly[1]	24-Hr. Composite
Outfall Observation[2]					Daily	Visual

[1]Weekly monitoring may be reduced to monthly monitoring beginning six (6) months after permit issuance and lasting until expiration of this permit.

[2]Any unusual characteristics of the discharge which would not be expected from the above authorized discharge (e.g., turbidity, discoloration, oil film, suspended matter, etc.) shall be reported immediately to the District Office of the Surface Water Quality Division followed with a written report within 5 days detailing the findings of the investigation and the steps taken to correct the condition.

a. The pH shall not be less than 5.0 nor greater than 9.0. The pH shall be monitored as follows: daily; grab.

b. The discharge shall not cause excessive foam in the receiving waters. The discharge shall be essentially free of floating and settleable solids.

c. The discharge shall not contain oil or other substances in amounts sufficient to create a visible film or sheen on the receiving waters.

d. Samples, measurements, and observations taken in compliance with the monitoring requirements above shall be taken prior to discharge to the county drain.

e. In the event the permittee shall require the discharge of water treatment additives in addition to any previously approved by the Chief of the Surface Water Quality Division, the permittee shall notify the Division Chief. Written approval from the Chief of the Surface Water Quality Division to discharge such additives at specified levels shall be obtained prior to discharge by the permittee. The permit will be modified in accordance with the requirements of Part II, Section B-4 if a constituent of the additive or additives requires limiting.

4. Special Condition - Short-Term Waste Characterization Study

As a condition of this permit, beginning upon issuance of this permit and before February 28, 1987, the permittee shall begin monitoring* the discharges from outfalls 005, 007 and 008 for the constituents, at the frequency, and for the period specified below. This monitoring will be required to demonstrate that these constituents are not contained in significant quantities. The results of the analysis of such monitoring shall be submitted by April 30, 1987, to the Chief of the Surface Water Quality Division. If, upon review of the analysis, it is determined that any of the materials or constituents require limiting to protect the receiving waters in accordance with applicable water quality standards, the permittee will be so informed. The permit will then be modified in accordance with Part II, B-4.

CONSTITUENT	SAMPLE TYPE	SAMPLE FREQUENCY	SAMPLE DURATION
Conduct a purgeable halocarbon scan (EPA Method 601)	Grab	Weekly	Four Weeks

*The permittee shall submit a monitoring, sampling, and analysis plan to the Chief of the Surface Water Quality Division and receive approval thereof in accordance with Part I, C-4 Schedule of Compliance.

5. Special Condition - BOD Demonstration

The permittee may demonstrate to the Water Resources Commission the following:

a. That the water quality-based summer season limit for BOD_5 contained in this permit is more restrictive than necessary to protect the receiving stream (Kalamazoo River); and/or

b. That the BOD_5 limitations for the discharge can be expressed in a different format which provides equivalent stream protection.

Upon completion of a successful demonstration by the permitee, this permit may be modified in accordance with Part II, Section B-4.

6. Special Condition - Dissolved Oxygen Monitoring Study

As a condition of this permit, beginning upon issuance of this permit and before December 31, 1986, the permittee shall monitor* outfalls 005, 007, and 008 for dissolved oxygen at a frequency and duration specified below. This monitoring is required to demonstrate that the water quality based effluent limit of 3.0 mg/l minimum for dissolved oxygen is consistently being met. The results of the monitoring program shall be submitted by *February 28, 1987, to the Chief of the Surface Water Quality Division. If, upon review of the data, it is determined that dissolved oxygen needs to be monitored and/or limited any further to protect the receiving waters in accordance with applicable Water Quality Standards, the permittee will be so informed. The permit will then be modified in accordance with Part II, B-4.

CONSTITUENT	SAMPLE TYPE	SAMPLE FREQUENCY	SAMPLE DURATION
Dissolved Oxygen (mg/l)	Grab	Twice Monthly	12 Months

*The permittee shall submit a monitoring, sampling, and analysis plan to the Chief of the Surface Water Quality Division and receive approval thereof in accordance with Part I, C-2 Schedule of Compliance.

7. Special Condition - Program for Effective Residuals Management (PERM)

In addition to the requirements in Part II, Section A-11 herein, the permittee shall provide for the effective management and/or disposal of residuals, i.e., solids, sludges, ash, grit and other substances removed from or resulting from treatment of the wastewater. Residuals disposal shall be accomplished in such manner and at such locations that the disposal practices shall not result in unlawful pollution of the air, surface waters or groundwaters of the state nor create nuisance conditions. Such management and/or disposal program shall be set forth in a "Program for Effective Residuals Management" prepared by the permittee. The program shall include but is not limited to the following:

1.) a management plan (treatment, transportation, storage, disposal, contingency plans);

2.) an inventory of residuals production, storage, and disposal for a period of at least one year;

3.) an analysis of the residuals;

4.) a monitoring program;

5.) if land application is proposed, site maps, soil analyses, application rates, proposed vegetation, and other pertinent information; and,

6.) if groundwater degradation potential exists, a hydrogeologic study.

The program shall be submitted to and receive the approval of the Plainwell District Supervisor of the Surface Water Quality Division in accordance with the Schedule of Compliance Part I, C-3 of this permit. Subsequent to approval, disposal of residuals resulting from treatment of wastewater shall be in accordance with the program. If the permittee desires to make any substantial changes in the program, such proposed changes shall be submitted to and be approved by the Plainwell District Supervisor of the Surface Water Quality Division prior to implementation. Substantial changes shall include but not be limited to: a change in disposal method or site; a change in treatment method; a change in storage method or site; a change in monitoring parameters or monitoring frequency; an increase in application rate; or a change in residuals quantity or characteristics. Any residual disposal inconsistent with the approved program shall be considered a violation of this permit.

APPENDIX VIII

Waste Water Disposal

Under the guidance of the RI Work Plan all water generated through decon, drilling, well development and sampling activities were collected and stored on the site. Upon our request, Mr. Bruce Merchant City of Kalamazoo Industrial Services Supervisor inspected the waste water. Mr. Merchant requested inorganic analytical results before the city could accept the waste water in their system.

KAR Laboratories, Inc. of Kalamazoo, Michigan analyzed the waste water samples. The analytical results were communicated to Mr. Merchant who gave approval to dispose of the waste water to the city waste water treatment system.

KAR Laboratories, Inc.
4425 Manchester Road
Kalamazoo, MI 49002

(616) 381-9666

ANALYTICAL REPORT

To: Hart Environmental Management Corporation
3000 Town Center, Suite 315
Southfield, MI 48075

Attn: Mr. Robert McLeod

Date: November 6, 1987

Laboratory Code: 871709

Re: EP Toxicity metals analysis of one water sample from Auto Ion sampled & submitted by Hart Environmental November 5, 1987.

Results are reported as mg/L.

	Auto Ion, Pool 14:28, 11-5-87
Arsenic	<0.005
Barium	<0.5
Cadmium	<0.005
Chromium	0.02
Copper	0.03
Lead	<0.02
Mercury	0.0006
Selenium	<0.005
Silver	<0.02
Zinc	<0.01

Respectfully submitted,

KAR Laboratories, Inc.

William H. Bouma

William H. Bouma, Ph.D.
Director

WHB/mcr

KAR Laboratories, Inc.
4425 Manchester Road
Kalamazoo, MI 49002

(616) 381-9666

ANALYTICAL REPORT

To: Hart Environmental Management Corp.
3000 Town Center, Suite 315
Southfield, MI 48075

Attn: Robert McLeod

Report Date: 3/31/88

Revision Date: 4/1/88

Laboratory Code: 880441

Re: Analysis of one water sample from the Auto Ion site submitted 3/10/88 by Hart Environmental.

Concentrations are expressed as mg/L

Sample I.D. Auto Ion PW-2 3/9/88	Concentration
Arsenic	<0.02
Barium	<0.5
Cadmium	<0.005
Chromium	0.21
Copper	0.23
Lead	0.05
Mercury	<0.0005
Selenium	<0.01
Silver	<0.005
Zinc	0.70

Respectfully submitted,

KAR Laboratories, Inc.

William H. Bouma, Ph.D.
Director

WHB/crc

APPENDIX IX

Fly Ash and Fly Ash Leachate Characteristics

HEAVY METAL CONCENTRATIONS OF FLY ASH

Constituent	Fly Ash (ppm)
Arsenic	8 - 120
Cadmium	0.01 - 8
Chromium	90 - 120
Lead	110 - 150

Source: N.T. Stephens et al. University of Louisville, KY March 4-5, 1974

FLY ASH SOLIDS ANALYSIS

Constituent	Range (ppm)	Average (ppm)	Data Points
Arsenic	6 - 1200	177	23
Cadmium	0.29 - 51	10	17
Chromium	15 - 900	218.6	18
Lead	11 - 800	210.7	19

Source: D.w. Weeter and M.P. Bahor. Oak Ridge National Laborotory, February 1979. ORNL/OGPN-10.

FLY ASH LABORATORY LEACHATE DATA

Constituent	Range (ppm)	Average (ppm)	Data Points
Arsenic	0.8 - 72.9	31.65	4
Cadmium	0.15 - 1.1	0.46	4
Chromium	1.9 - 9.4	3.93	4
Lead	0.73 - 9.1	3.04	4

Source: D.W. Weeter and M.P. Bahor. Oak Ridge National Laboratory, February 1979. ORNL/OGPN-10.

In general, ash leachate quality is governed by the physical-chemical characteristics of the ash and the soil-water matrix through which the leachate flows. In order to estimate the leachate quality at any point, one must know the laboratory leachate quality and the specific attenuation-translocation factors of the soil-ash system.

Many of the earlier studies of fly ash leachate characterized it as alkaline in nature with a pH value ranging from 6.2 to 11.5. Recent reports have shown that some fly ashes are acidic. It is now believed that the pH of the leachate is controlled by the amount of leachate lime and iron present.

The pH of fly ash leachate is a significant factor in the solubility of the trace elements present in fly ash. An acidic fly ash can be expected to contain greater concentrations of trace elements released into solution than an alkaline fly ash.