# INDUSTRIAL WASTE AND SOIL REMOVAL ACTION FINAL REPORT

# SCHRECK'S SCRAPYARD

**North Tonawanda, New York**

**Prepared for:**

**OCCIDENTAL CHEMICAL CORPORATION**
**Niagara Falls, New York**

**Prepared by:**

**DUNN GEOSCIENCE CORPORATION**
**Amherst, New York**

**Date: June 2, 1991**

Albany, NY
Harrisburg, PA Buffalo, NY
Laconia, NH Atlanta, GA
Chicago, IL Parsippany, NJ

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TABLE OF CONTENTS

TABLE OF CONTENTS (Continued)



## LIST OF FIGURES AND PLATES



## LIST OF APPENDICES

# 1.0 INTRODUCTION

This report presents the results of an Industrial Waste and Soil Removal Action conducted from January 10 to March 7, 1991 by the Occidental Chemical Corporation (OCC) at the Schreck's Scrapyard Site ("Site") in North Tonawanda, New York, now owned and operated by VJT Salvage, Inc. The Removal Action consisted of the excavation, removal and appropriate disposal of surficial soils, drummed industrial waste, debris, water and contaminated soil, and the performance of hydraulic integrity tests in an abandoned automobile press pit ("Pit") on the "Site". The work conducted during this Removal Action conformed with the Work Plan prepared by Dunn Geoscience Corporation (DUNN) for OCC and submitted to New York State Department of Environmental Conservation (NYSDEC) entitled:

> "Work Plan for an Industrial Waste and Soil Removal Action at Schreck's Scrapyard North Tonawanda, New York" dated, November, 1990.

Occidental Chemical Corporation entered into an Order on Consent with the NYSDEC on January 16, 1991 to conduct the Removal Action predicated on previous site investigations. The Site had been classified as a Class 2 Site on the NYSDEC Registry of Inactive Hazardous Waste Disposal Sites as a result of the prior investigation which identified environmental concerns at the Site. These previous investigations, discussed further in Section 2.3 of this report, indicated that the Site was contaminated with PCBs and contained some organic compounds and metals. The investigations also revealed that an abandoned automobile press pit on the Site contained deteriorated drums of Durez type industrial waste, and that the industrial waste had been in contact with the soil and water in the Pit. The purpose and scope of the Removal Action was to excavate and dispose of the surficial soils, drummed industrial waste, debris, water and contaminated soil and perform hydraulic integrity tests on the Pit. The Order on Consent, stipulated that if the Pit was found to lack hydraulic integrity, as determined by the procedures set forth in the Work Plan, OCC and NYSDEC would seek to enter into a subsequent Order on Consent and Work Plan regarding an investigation of potential migration of Durez type industrial waste from the Pit, and, if necessary, removal of migrated Durez type industrial waste.

# 2.0 PROJECT BACKGROUND

## 2.1 Site Location and Description

The Site, located at 55 Schenck Street in North Tonawanda, New York is presently operated as an automotive scrapyard by VJT Salvage, Inc. The site is commonly referred to as Schreck's Scrapyard. Figure 1 shows the scrapyard's location with respect to the regional area.

The Site is located in a mixed light industrial and residential area. The scrapyard is bordered on the north by Schenck Street and the Lawless Container Corporation located across the street

(Figure 2). Lawless also borders the west side of the Site and Tondisco Incorporated borders the south side of the Site. The eastern border of the Site consists of Conrail tracks. East of these tracks is an empty lot which, at one time, was the location of a metal fabrication shop. Although no residential property is adjacent to the Site, a dense residential neighborhood lies approximately one block east of the Site.

The approximately 1.5 acre scrapyard is in a deteriorated condition. The fencing around the Site is damaged at various locations providing easy access to trespassers. The Site contains three significant structures; a cinder block office building, a garage, and the frame of an abandoned bailer machine with a concrete foundation. Adjacent to the bailer machine frame is the Pit. The Site has a soil base containing scrap material, is oily and essentially void of vegetative growth. The site also contains various piles of scrap (tires, cars, refrigerators) and is normally filled with junk cars and automotive parts.

## 2.2 Site History

Schreck's Iron and Metal Company operated a scrap iron business at the Site from 1951 to 1953, Site operations prior to 1951 are unknown. In 1953, the business was sold to Bengart, Memel and Company who reportedly operated a scrap metal business until 1977. In addition to the metal salvage operation, the Site was used as a transfer station for wastes hauled by the facility's trucks to local waste disposal facilities between 1951 and 1975. When waste in the form of drums was picked up late in the day, the truck loaded with the drums would apparently be kept at the Site overnight. In 1965, allegedly 50-60 drums of industrial waste from Durez Plastics & Chemicals, Inc., of which OCC is the successor in interest, were placed in the Pit located at the south end of the Site. Durez was not notified that the drums of waste were used in this manner. The drums were placed into the Pit on top of building debris, which partially filled the Pit, and were then covered with approximately two feet of soil.

From 1960 to 1975, transformers, said to have originated from the Niagara Mohawk Power Corporation, New York State Electric and Gas and Westinghouse Electric Corporation were routinely brought to the Site for salvage. The metal carcasses were sheared and the oil was then allowed to spill onto the ground. Reportedly, the oil soaked soils were periodically excavated by a dozer and pushed towards the eastern property boundary, as well as onto the Pit.

## 2.3 Summary of Previous Investigations

Four investigations have been undertaken to identify environmental conditions at the Site. The first investigation was undertaken in 1983 when Lawless Container Corporation retained Recra Research, Inc. (Recra) to conduct a pre-purchase environmental assessment of the property. Analysis of two composite soil samples from outside the Pit revealed the presence of PCBs (18

and 66 mg/kg), elevated levels of metals, and the presence of cyanide, phenolics and volatile organic compounds.

In 1986, Recra was retained by the NYSDEC to conduct a Phase I Investigation, the purpose of which was to collect available information and score the Site, using standard ranking models, to determine if the Site was eligible for the State and/or Federal priority list of uncontrolled hazardous material sites. The Site is currently ranked as a Class 2 Site on the NYSDEC Registry of Inactive Hazardous Waste Disposal Sites.

In 1988, Eder Associates was retained by the NYSDEC to conduct a Remedial Investigation/ Feasibility Study (RI/FS) at the Schreck's Scrapyard Site. The RI/FS analytical results indicated that the Site is contaminated with PCBs, as well as some organic compounds and metals.

In 1989, DUNN was retained by Whiteman Osterman & Hanna to sample three of the drums and the soil in the Pit. The analytical results from these samples have been shared with the NYSDEC and were included in the Work Plan and herein, as Appendix A. The analysis of samples from within the Pit also revealed the presence of PCBs at levels less than 50 ppm.

The presence of waste in the Pit prompted the development of an Order on Consent and a Work Plan for the removal of industrial waste and contaminated material in the Pit and the performance of the pit hydraulic integrity tests. The Work Plan, formally approved by the NYSDEC, served as the basis of the waste removal effort; defined sampling and analytical protocols; outlined waste material excavation, storage and transportation requirements; and provided a health and safety plan.

## 3.0 SITE PREPARATION

### 3.1 General

Prior to initiating work on-site in accordance with the approved Work Plan, a general cleanup of the Site had to be undertaken. VJT Salvage, Inc. removed from the work area the junk cars, automobile parts, tires and debris to provide access to the Pit.

### 3.2 Fencing

The chain-link fence, previously installed during DUNN's 1989 investigation to restrict entry to the Pit, was removed to provide working access to the Pit.

OCC installed temporary snow fencing and repaired existing fencing along the railroad tracks on the eastern perimeter of the Site to restrict unauthorized access to the work area.

The snow fencing was installed to cordon off the 30 to 40 foot wide access roadway on the eastern side of the Site. A 40 foot double wide, chain-link swing gate was installed at the Schenck Street entrance to the Site joining the snow fence on the west side of the access roadway and the existing fence along the railroad tracks.

A snow fence was installed from the southwest corner of the old bailer machine to the existing south property line fence, thus, enclosing the complete work area.

The installation of the fencing is shown on Plate 1.

### 3.3 Temporary Facilities

Temporary facilities were placed on the Site during mobilization for the work and were maintained until demobilization. These facilities included an office trailer, mobile personal decontamination trailer, a construction shanty and portable sanitation stations. The office trailer, which functioned as a base of operations for OCC, was placed east of the railroad tracks on the south side of Schenck Street. The twenty-four hour security guard service used the office trailer as a base of operation.

The personnel decontamination trailer was situated west of the access road, just inside the snow fence and the Schreck Street entrance gate. The personnel decontamination trailer contained all protective and safety equipment and provisions required by the NYSDEC approved Health and Safety Plan.

The location of the trailers is shown on Plate 1.

### 3.4 Access Road

Historically, oils containing PCBs were drained from transformers onto the ground, and subsequently, most of the surface area of the site has become contaminated. Therefore, a temporary access road was constructed by OCC to prevent the waste removal trucks from picking up PCB contaminated soils on their tires and inadvertently carrying contaminated soil beyond the Site. The access road was constructed on the Site parallel to the eastern property fence from the entrance gate at Schenck Street to the south end of the Pit, a distance of 260 feet. The road was 30 feet in width, but flared at the south end to 40 feet in width to accommodate handling, loading, storing and staging areas. The location of the access road is shown on Plate 1.

The road was constructed of a three liner system; a 3/16 inch thick SUPAC non-woven geotextile on the bottom, a 60 mil plastic textured liner in the middle and a 1/16 inch TYPAR fabric geotextile on the top. The thick bottom geotextile acted as a cushion to prevent the puncturing of the 60 mil textured liner by the underlying scrapyard debris. After the bottom

geotextile and the 60 mil textured liner were installed, railroad ties of varied length, were placed near the edge of the liner and the liner was curled up and back over the ties and secured to the tops of the ties. Additionally, the securing of the 60 mil textured liner over the railroad ties provided a spill containment measure for the access road. The TYPAR geotextile fabric liner was then installed to protect the textured liner. Whenever the TYPAR geotextile layer became dirty it was disposed of in a waste roll-off trailer and replaced with a new geotextile layer. All truck traffic moved to and from the Pit area by way of this temporary access road. The construction of the access road precluded the need for the decontamination pad called for in the Work Plan since all of the equipment operated off of primarily clean surfaces. This change in the Work Plan was approved by on-site NYSDEC personnel.

### 3.5 Staging Areas

To meet the spill contingency measures required by the Work Plan, the tanker trucks to which Pit liquids were to be pumped, were staged on the bermed/lined access road approximately 30 feet to the east of the Pit. Each lined roll-off trailer, was also parked on the bermed access road approximately 20 feet to the east of the Pit.

As described in Section 4.1, a mixing box (roll-off) was placed directly north and east of the Pit adjacent the access road and was used to mix the soil and debris from the Pit with lime. A plastic liner was placed around the box as a spill contingency measure. The staging area location is shown on Plate 1. The location of the staging areas and the spill containment measures provided, were all approved by NYSDEC's on-site personnel.

### 3.6 Site Security

OCC provided full time 24 hour manned security from mobilization to demobilization, as required by the Work Plan. The security guards ensured that all individuals entering the Site signed the log book, that the fencing was not breached, that the entrance gate was locked during off-hours, as well as provided general surveillance of the Site.

## 4.0 DRUM REMOVAL AND DISPOSAL

### 4.1 Excavation and Drum Removal

The Work Plan called for the segregation of uncontaminated surficial soil from soil contaminated by the presence of industrial waste. However, prior to excavation, in an agreement reached between OCC and NYSDEC, OCC agreed to excavate, remove and dispose of all Pit contents.

The Work Plan also called for the loading of the excavated soil, debris and drums directly into the lined roll-off trailers. However, due the highly saturated condition of the Pit contents, it was agreed between OCC and NYSDEC, to mix lime with the saturated material prior to loading into the roll-offs. This was accomplished by use of a mixing box (roll-off) staged adjacent to the Pit or by mixing lime directly into the Pit.

Excavation of the Pit began on January 23, 1991 with the removal of surficial soils on the east side of the Pit. The surficial soils were loaded directly into the roll-off trailers. Lime was not mixed with surficial soils, as they were dry enough to load directly.

On January 24, 1991, a dewatering sump was excavated near the east end of the Pit. The depth of the sump was 10 feet, which corresponded with the bottom of the Pit. Using a two inch trash pump with a filter attachment, approximately 4,900 gallons of interstitial Pit water was pumped to the tank trailer on the first day. Over the next several days, very little water accumulated in the dewatering sump and minimal pumping was required.

On January 25, 1991, the areal limits of the Pit were probed using a backhoe. The location and linear extent of the northern and southern walls of the Pit were established. Concerted excavation failed to locate the west Pit wall, which was shown to exist on an original Pit construction drawing. Also on January 25, 1991, the use of hydrated lime began. Lime, was intermittently mixed with the Pit contents in the mixing box and/or in the Pit itself to effectively dry the materials before loading into the roll-off trailers. Approximately 34 tons of hydrated lime were used throughout the Removal Action to dry the excavated material before loading it into the roll-off trailers.

During the week of January 28, 1991, the west wall of the Pit was uncovered at a location approximately 10 feet east of where it was believed to be. The top of the west wall was found to be approximately four feet below the existing grade. Excavation of the Pit contents continued throughout the week. Most drums were found to be crushed or in a very deteriorated condition. Drums were first found at a depth of three feet below the surficial soil covering the Pit. The drums contained both solid and viscous liquid waste. The material excavated from the Pit included material similar to that encountered during the sampling investigation. The excavated material contained 160 crushed and deteriorated drums and approximately ten of the drums found in the Pit contained liquids that appeared to be gear oil or a reddish oil similar to automotive transmission fluid. All prior historical information indicated that there were only 50 or 60 drums of Durez type industrial waste in the Pit.

On January 29, 1991, Pit dewatering was resumed as the water level within the dewatering sump had risen two to three feet from natural drainage of the Pit material to the lower sump. Pumping on this day, of approximately 4,400 gallons of Pit water, essentially completed dewatering.

During the course of the remaining excavation, only pumping of small amounts of Pit water was necessary.

Excavation of all Pit materials was completed by February 1, 1991. Photographs 1 and 2 in Appendix B show excavation operations.

### 4.2 Waste Water and Solid Waste Transport/Disposal

All waste water pumped from the Pit was initially stored and later transported to a permitted treatment facility in 6,300 gallon tankers. The tankers were staged on and loaded in the tanker loading area on the access road at the Site. Analytical samples were taken from the tankers and sent to the treatment facility for analysis. Refer to Section 5.1 for description of waste water sampling and analysis. The volume of water was measured and properly documented before the waste water was transported to a permitted facility. Two tankers from Tonawanda Tank Transport, Inc., containing all the waste water dewatered from the Pit, approximately 10,950 gallons, was transported to DuPont's Deepwater, New Jersey permitted facility for treatment.

The industrial waste excavated from the Pit was loaded into plastic lined 20 cubic yard roll-off trailers in the trailer loading area on the access road. All loaded roll-off trailers were weighed, properly manifested and hauled to a permitted disposal facility. Twenty-three loads, with a combined load of approximately 380 tons, were transported by the United States Pollution Control, Inc. to their Lone Mountain, Oklahoma permitted facility. All manifest documentation was completed and sent with each and every shipment. Refer to Section 5.2 for description of solid waste sampling and analysis. All transporting and disposal of waste water and solid waste was performed in accordance with the approved Work Plan and overseen by NYSDEC's on-site personnel.

## 5.0 SAMPLING AND ANALYSIS

### 5.1 Waste Water Sampling and Analysis

Water samples were collected from the tankers containing Pit waste water and personnel decontamination wash water. All waste water was pumped through a filter before entering a tanker truck. The waste water samples were collected with a dip sampling device through the fillport at the tankers' top and placed in one liter glass containers. The containers were immediately labelled with the sample number, job name, date, and analysis requested. The samples were then, either delivered to Recra or transferred under custody, to the on-site Construction Manager. The waste water was analyzed, pursuant to the approved Work Plan, for semi-volatiles, TOC and total phenols. Waste water samples were also shipped to the disposal/treatment facility for their analyses to confirm that the waste water could be accepted at

their facility. The waste water sampling identification and analytical results are summarized in Appendix C of this report.

## 5.2 Solid Waste Sampling and Analysis

Pit samples were collected by using the excavator bucket to excavate a small portion of the Pit material from selected locations. A total of eight (8) discrete soil samples were collected at depths of one, three, five, seven, and eight feet. Soil sample locations are diagrammed on Figure 3. The excavator bucket was then placed beside the excavation and a portion of the material in the bucket was placed in a decontaminated stainless steel bowl with a stainless steel spoon as called forth in the Work Plan. The procedure was repeated at the same elevation at three more locations (sub-samples) in the Pit. Four sub-samples were collected for each half of the Pit. Once the four sub-samples were collected for each half of the Pit, the material in the bowl was thoroughly mixed and transferred in the appropriately labelled sample containers. Therefore, two composite samples were collected at each specified depth within the Pit. The samples were kept cool and the proper Chain-of-Custody procedures, pursuant to the QAPP, were utilized. The samples were subsequently analyzed under U.S. EPA Contract Laboratory Protocols for Target Compound List semi-volatiles and PCB isomers at Recra Environmental, Inc. The analytical results revealed that besides the detection of semi-volatiles, PCBs were also detected at levels as high as 70 ppm (total PCBs). The solid waste analytical results are summarized in Appendix C of this report. The total PCB concentrations are also diagrammed in Figure 4.

## 5.3 Organic Vapor Monitoring

Before implementation of the air monitoring program, as set forth in the Work Plan, the wind direction at the Site was established by two methods. The first recorded the wind direction reported on the National Weather Service radio station. In the second confirmatory method, several ribbons were tied to the fence post along the access road, to act as wind socks. At all times, both methods produced the same results. Thus, up and downwind locations were determined for the Site for each work day. The wind direction was monitored at two hour intervals or less.

Real time air monitoring for organic vapors was conducted up and downwind of the Site and in the breathing zone of Site personnel. The monitoring instrument used was a HNU PI-101, photoionization detector calibrated daily to the manufacturer's specifications. Organic vapor readings were recorded at two hour intervals or less.

Background HNU readings were acquired once at the beginning of each day from the ambient air outside the office trailer and ranged between 0.1 ppm and 0.3 ppm. The highest HNU readings recorded during excavation or other activities at the Site were 2.0 ppm in the breathing zone and 0.6 ppm at the Site perimeter. When HNU readings exceeded 1.0 ppm, all personnel in

the breathing zone upgraded from Level D protection to Level C protection, as required by the action level criteria specified in the Health and Safety Plan, Appendix D of the approved Work Plan. All organic vapor readings were recorded in a log book, with the time, activity and location on the Site of each reading. Daily air quality sheets reporting the organic vapor readings for each day are provided in Appendix D of this report.

### 5.4 Explosive Vapor and Oxygen Monitoring

A Scott-Alert Model S 105A was used to detect the oxygen and explosive gas levels in the Pit. All measurements were logged in a field book and are recorded on daily air quality sheets in Appendix D of this report.

At no time during the Removal Action at the Site did the percentage of oxygen drop below the required minimum of 19.5 percent nor did the lower explosive limit exceed the allowed maximum of five percent, which are active levels stipulated in the approved Health and Safety Plan.

### 5.5 Airborne Particulate Monitoring

Airborne particulate matter was monitored with a direct reading real time particulate monitor at a downwind monitoring station. The particulate monitor used was a MIE PDM-3 Miniram and was factory calibrated. Background particulate matter readings were 0.00 $mg/m^3$ and perimeter readings were taken at a minimum of every two hours.

At no time did particulate matter readings exceed background at the Site perimeter (fence line). All particulate matter readings are reported on the daily air quality monitoring results in Appendix D of this report.

### 5.6 Airborne PCB Sampling and Analysis

Airborne PCB monitoring stations were established daily at locations upwind and downwind of the Pit and on the Site perimeter. The monitoring stations utilized portable SKC Inc. Model 224-PCXR3 Flow Controlled Air Pumps calibrated daily with a Buck Calibrator or rotameter. The sampling tube and filter utilized in this sampling program is as stated in NIOSH Method 5503. NIOSH Method 5503 is explained in the HASP. Each florisil tube and filter was labelled with the job name, date, sample number, and up or downwind position.

The airborne PCB sampling was continuously conducted beginning one hour prior to the start of Site activities and ended one hour after activities, from January 18 to January 24, 1991. On January 25, 1991, the running time before activities was reduced by one-half hour, per agreement with on-site NYSDEC personnel. The last sampling date was February 12, 1991.

The daily PCB air samples were delivered, by courier, under strict Chain-of-Custody procedures to OCC's Grand Island, New York facility for analysis.

The airborne PCB samples were analyzed for Aroclor 1242 and 1254, using NIOSH Method 5503. Field blanks were collected at the rate of one per every 10 field samples, and laboratory spikes were analyzed every sampling day. None of the 36 PCB samples, collected and analyzed during the Schreck's Removal Action, showed levels of Aroclor 1242 or 1254 at or above the one ug/$m^3$ method detection limit as called for in the HASP. All quality assurance blanks and spikes were analyzed and found to be acceptable. The results from this sampling program are summarized in Appendix D of this report.

## 6.0 PIT REMEDIAL CONSTRUCTION

### 6.1 Pit Cleaning

After all of the surficial soils, drummed industrial waste, debris, water and contaminated soils were removed from the Pit, the Pit was cleaned in accordance with the Work Plan. The first step in cleaning the Pit was to scrape large particles of residue (chemical tars and caked soils) off the floor and walls with flat shovels. The entire inside surface of the Pit was then sandblasted, removing all visible contamination. Sandblasted material, including the sand, was loaded into a roll-off for disposal with the other Pit waste. The sandblasting was followed by washing the Pit with water from a high pressure hose. The sandblasting and washing operations were inspected and accepted by NYSDEC personnel on Site.

### 6.2 Pit Survey and Description

Upon completion of the excavation of the Pit contents and the cleaning operation, dimensional survey of the Pit was undertaken and a sketch prepared of the Pit in plan view and section. (Refer to Plate 2.)

The Pit is an odd "L" shaped structure with the inside dimensions of 28.8 feet long (east-west) by 14.6 feet wide (north-south) except for a nine foot section of the eastern end of the Pit, which is 20 feet wide (north-south). The western end of the Pit, steps up four feet to a seven and one half feet long ledge. The Pit is slightly less than 10 feet deep except at the western ledge which is six feet below grade.

The existing poured concrete walls of the Pit in the 10 feet deep section are approximately one and one half foot with one foot wide concrete block walls, two to four feet in height on the western ledge. The poured concrete walls are uneven at the top.

The concrete blocks of the west wall and the western end of the north and south walls on the ledge are in deteriorated condition and are two feet to four feet below existing grade. The floor of the Pit is poured concrete, with exposed reinforced bars and steel pipes. The thickness of the floor and the ledge was not determined. At several locations, vertical steel pipes were exposed at the top of the wall. The function of these pipes is unknown.

An existing sump is located in the concrete floor on the north side of the Pit near the ledge. It is 1.13 feet deep and 1.8 feet in diameter. A two inch diameter pipe/conduit extends into the sump from the southeast just below the floor surface. Whether the pipe traverses in or under the concrete floor could not be determined. The purpose for this pipe is unknown, but is probably an electrical conduit or a drain/discharge pipe.

Three concrete piers were located in the Pit at 3.3, 9.2 and 17.6 feet, respectively from the east wall. The piers are seven feet long, 5.15 feet high, two feet wide at the base, and one foot wide at the top. These piers appear to have been cast in place on top of the Pit floor, with reinforcing rods tying the piers to the concrete floor. During cleaning of the Pit, the piers were removed in order to clean the floor beneath them. The removal caused no damage to the Pit floor, and the piers were later placed back in the Pit, with approval of NYSDEC's on-site representative, after Pit cleaning was completed. Photographs numbered 3 and 4 in Appendix B are of the Pit.

### 6.3 Masonry Wall Construction

In order to properly support a roof structure over the Pit, as called for in the Work Plan, the existing Pit walls had to be levelled. Since the tops of the existing concrete pit walls were uneven and rough, with the approval of NYSDEC, a concrete levelling cap was poured over the existing walls. This cap provided a level and sound base to construct an approximate four foot high, eight inch wide masonry block wall to support the roof structure. An OCC design engineer reviewed, in the field, the condition of the Pit and designed the wall extensions and roof structure. (See Section 6.4 for roof construction.) The NYSDEC approved the design and construction. The new walls were approximately three feet above existing grade. The existing deteriorated, shorter, west masonry wall was left in place and a new eight inch block masonry wall was constructed on the existing eastern end of the ledge to the height of the other raised walls. (Refer to Plate 3 and Photographs numbered 4 and 5 in Appendix B.) The masonry walls were coated with foundation sealer and the surrounding area was graded, so that water would drain away from the Pit.

### 6.4 Pit Roof Construction

Upon completion of the masonry wall construction, a roof, meeting OCC design specifications, was built over the Pit to prevent entry of rain water. The Pit roof was constructed of pressure treated two by twelve inch wooden rafters on one foot centers and sheeted over with three-

quarter inch CDX exterior grade plywood. The roofing material was 90 pound mineral coated, rolled roofing with tarred and nailed seams. The roof sloped to the north, with the exception of the southeast corner which sloped to the south. In the southeast corner, an entrance hatch and ladder were installed to allow access to the bottom of the Pit. Three turbine roof vents were installed and 12 side vents were installed in the masonry wall at evenly spaced intervals around the entire perimeter. (Refer to Plate 3 and Photograph number 6 of Appendix B of this report.)

### 6.5 Pit Integrity Testing

After the Pit contents were excavated and removed and the Pit walls and floor cleaned by sandblasting and washing, the inner surfaces of the Pit were inspected for cracks, as called for in the Work Plan as Step One of the Evaluation of Pit Integrity. The existing west masonry wall was observed to have numerous cracks with water and brown liquid seeping into the Pit from a number of the cracks. Water was also seeping into the Pit from a crack in the east wall and at the contact of the east wall and the floor. Based on these observations, the Pit was not watertight and leakage was occurring from the outside of the Pit into the Pit.

The second step specified in the Work Plan, for verification of the Pit's water tightness was also carried out. The water level of the monitoring well nearest the Pit, MW-6, was measured at a level greater than one foot above the elevation of the Pit floor. Therefore, a positive pressure gradient existed into the Pit at the time of measurement and the Pit was considered to leak at the joint between the wall and the floor.

Even though it was determined by Step One and the first phase of Step Two that the Pit leaked, a hydrostatic test was performed to try to understand the Pit's hydraulic integrity, that is, rate of seepage. This test was carried out after the roof was installed to prevent intrusion of rain water. A stilling well made of two inch PVC pipe was attached to the access ladder in the southwest corner of the Pit, and by use of a steel measuring tape inserted down the stilling well, the water level in the Pit was measured at elevation 567.89 feet or approximately 0.3 feet above the Pit floor (567.59 feet). The water in the Pit at the time of measurement was a result of Pit seepage and rainfall accumulation before the roof was installed. The water level in MW-6 was measured at the same time and was at elevation 568.94 feet. The first test conducted was not accurate because leakage was observed in a section of the new block wall constructed for the roof resulting in an increase of 15/16 of an inch of water in the Pit over a 64 hour time frame. The test was run a second time, after the new wall was resealed with foundation sealer and the Pit water level increased one eighth of an inch over a 24 hour time frame.

As a result of the visual inspection and tests conducted, it was determined that the Pit was not watertight and with the Pit empty, there was an inward groundwater gradient resulting in seepage from outside the Pit into the Pit. However, when the Pit was full with water and soil, before the

initiation of the Removal Action, the water level in the Pit was approximately two feet above the top of the lower west Pit wall.

## 7.0 EQUIPMENT DECONTAMINATION

The two backhoes used for excavation were decontaminated by hand scraping the buckets to remove remaining soil and visual contamination. This operation was performed over the Pit and the scraped material was then shovelled into five gallon pails and placed in the waste roll-off trailer. The backhoe buckets were then sandblasted over the Pit and the material also shovelled into five gallon pails for disposal in the roll-off trailer. This operation was performed before the Pit was cleaned with water hoses. The mixing box was decontaminated by hand scraping the inside of the box and removing and transferring scraped material in five gallon containers to the waste roll-off container. Water pumps were cleaned by flushing with tap water and the water pumped directly to the waste tanker. The hoses and hand tools used in the Pit area, were disposed of in the waste roll-off container. All decontamination fluids were disposed of in the waste roll-off trailer. All equipment was inspected for proper decontamination and approval by NYSDEC personnel before leaving the Site.

## 8.0 DEMOBILIZATION AND FENCE INSTALLATION

After decontamination and inspection and approval by NYSDEC, all equipment was removed from the Site. Minor construction debris and scrap materials were placed in the last waste roll-off trailer. All road materials were considered to be contaminated and were cut into narrow widths and disposed of in the waste roll-off trailer.

The utilities were disconnected and the two trailers and the construction shanty, which were all outside the Exclusion Zone were moved off site, thereby completing the demobilization process.

An eight foot chain link fence was installed around the Pit area to segregate the Pit from the rest of the Scrapyard. The fence that had been previously removed from between the bailer foundation and the property line was re-installed.

## 9.0 SUMMARY

On January 16, 1991, OCC entered into an Order on Consent with NYSDEC for the removal and disposal of surficial soils, drummed industrial waste, debris, water and contaminated soils from an abandoned automotive press pit at Schreck's Scrapyard. The Order on Consent also required that OCC perform integrity tests on the Pit and prepare a Work Plan detailing all activities required to carry out the Removal Action.

A Work Plan was prepared and approved by NYSDEC and the Removal Action, as described in the approved Work Plan, was conducted between January 10, 1991 and March 7, 1991. Each and every change to the Work Plan required by on-site field conditions as described in this report was approved by NYSDEC on-site personnel.

All field activities were documented, as required by the approved Work Plan, to provide a permanent record of all remedial construction activities. All requirements of the approved Health and Safety Plan (HASP) and the approved Quality Assurance Project Plan (QAPP) were adhered to except, as noted in this report as a NYSDEC approved change.

The procedures and methodologies utilized to excavate and remove the Pit contents have been described in detail in this report. The type and quantity of wastes removed from the Pit is summarized as follows:

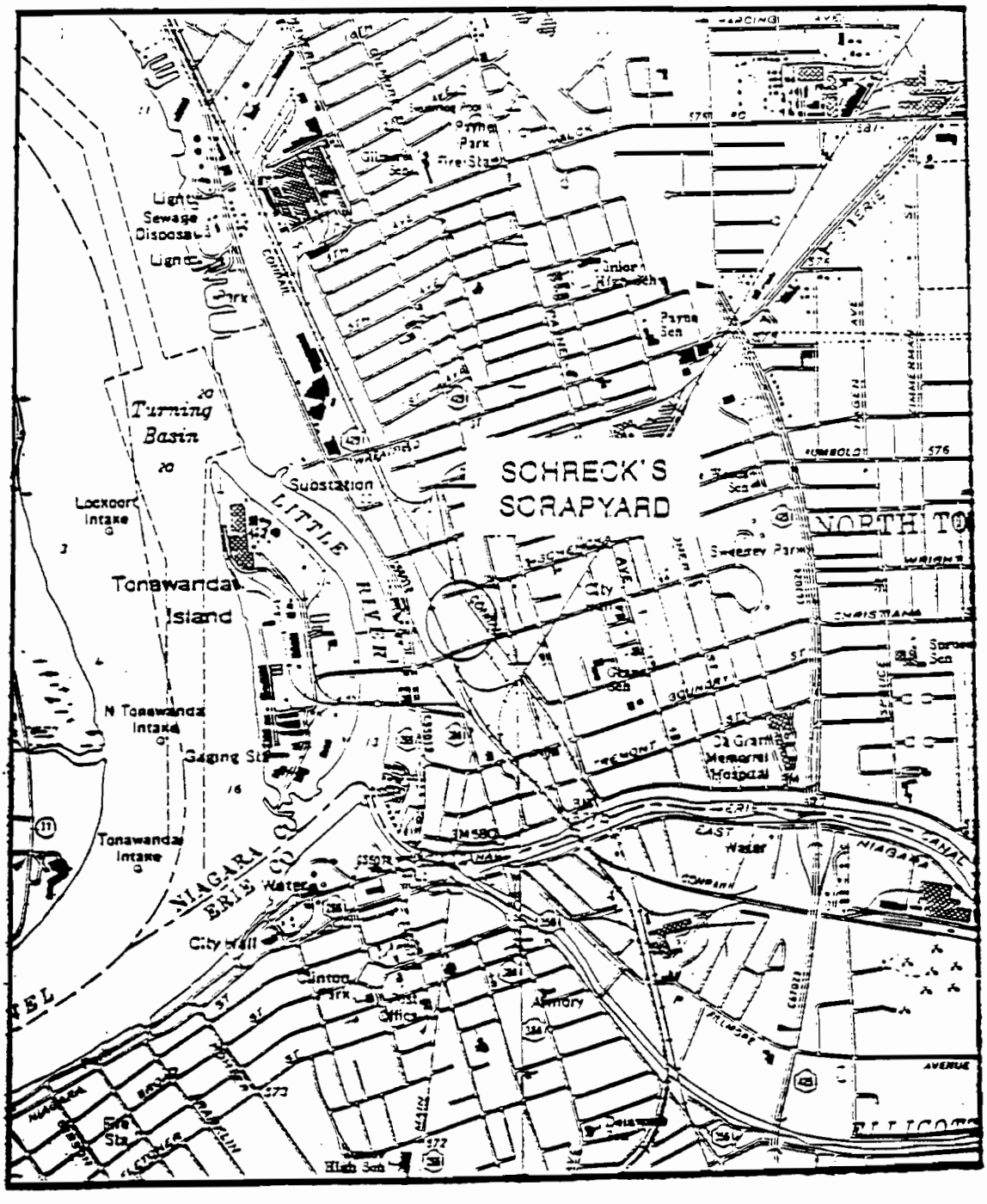
| Waste Type | Quantity Removed | How Transported | Permitted Disposal Facility |
|---|---|---|---|
| Waste Water | 10,950 gal. | 6,300 gal. capacity Tanker Trucks | DuPont's Deepwater, New Jersey Treatment Facility |
| Solids: Drums, Debris, Soil | 380 Tons(1) | 20 cy Roll-off Trailers | United States Pollution Control, Inc., Lone Mountain Oklahoma Facility |

(1) Included 160 drums

Sampling of the waste water and solids from the Pit was conducted in accordance with the approved QAPP. All samples were analyzed for TCL semi-volatiles and PCB isomers. All analyzed results are summarized in Appendix C to this report. Samples were sent for analysis to both OCC's subcontracted laboratory and the permitted disposal facilities previously listed.

Subsequent to the removal of all of the Pit contents, the Pit was thoroughly cleaned by sandblasting and high pressure water hose. As described in detail in Section 6.5, Pit Integrity Testing of this report, the Pit was then thoroughly inspected and the steps described in the approved Work Plan for evaluating the Pit's integrity were carried out. As a result of the visual inspection and tests conducted, it was determined that the Pit was not watertight and with the Pit empty, there is an inward groundwater gradient resulting in seepage into the Pit.

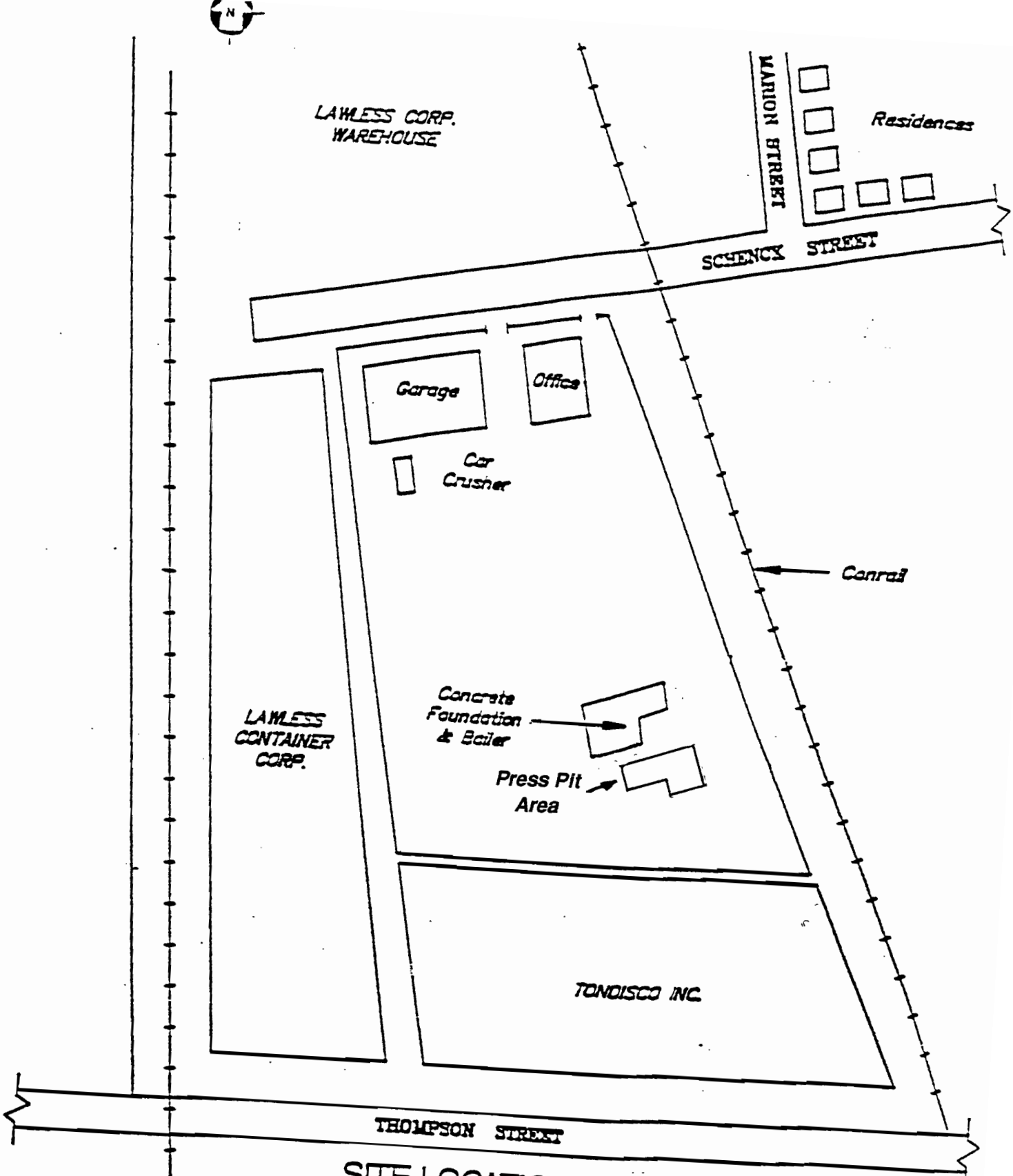
SCHRECK'S SCRAPYARD SITE
NORTH TONAWANDA, NEW YORK




SCALE : 1"=2000'

LOCATION MAP

FIGURE 1




SITE LOCATION MAP

SCHRECK'S SCRAPYARD
N. TONAWANDA, NEW YORK

FIGURE 2

# APPENDIX A

## ANALYTICAL RESULTS OF DRUMMED WASTES AND CONTIGUOUS SOIL SAMPLED AT THE SCHRECK'S SCRAPYARD PIT DECEMBER, 1989

OCCIDENTAL CHEMICAL CORPORATION
ENVIRONMENTAL DATABASE SYSTEM

ND-Not Detected above CRDL

SCHREEX'S SCRAPYARD
SOIL SAMPLES

Special Codes: D - FIELD DUPLICATE

Data Qualifiers: J - Identified using CLP criteria at a concentration below the method specified quantitation level.
B - Analyte was detected in the reagent blank, sample results not corrected.
H - Results are estimated, sample analyzed outside holding times.
N - Presumptively present, not confirmed by GC/MS.

| | | | Sample Date:--------> | 12/19/89 | 12/19/89 | 12/19/89 | 12/19/89 |
|---|---|---|---|---|---|---|---|
| | | | Sample Description:-> | SS 1 | SS 1 | SS 2 | SS 3 |
| | | | Special Code:-------> | D | | | |
| Analytes: | Units: | CRDL: | | | | | |
| CHLOROMETHANE | ug/kg | 10 | | ND1700 | ND1700 | ND1700 | ND1600 |
| BROMOMETHANE | ug/kg | 10 | | ND1700 | ND1700 | ND1700 | ND1600 |
| VINYL CHLORIDE | ug/kg | 10 | | ND1700 | ND1700 | ND1700 | ND1600 |
| CHLOROETHANE | ug/kg | 10 | | ND1700 | ND1700 | ND1700 | ND1600 |
| METHYLENE CHLORIDE | ug/kg | 5 | | 2200 B | 2100 B | 1800 B | 2000 B |
| ACETONE | ug/kg | 10 | | ND1700 | ND1700 | ND1700 | ND1600 |
| CARBON DISULFIDE | ug/kg | 5 | | ND870 | ND870 | ND870 | 170 J |
| 1,1-DICHLOROETHYLENE | ug/kg | 5 | | ND870 | ND870 | ND870 | ND800 |
| 1,1-DICHLOROETHANE | ug/kg | 5 | | ND870 | ND870 | ND870 | ND800 |
| 1,2-DICHLOROETHENE (TOTAL) | ug/kg | 5 | | ND870 | ND870 | ND870 | 400 J |
| CHLOROFORM | ug/kg | 5 | | ND870 | ND870 | 280 J | ND800 |
| 1,2-DICHLOROETHANE | ug/kg | 5 | | ND870 | ND870 | ND870 | ND800 |
| METHYL ETHYL KETONE (2-BUTANONE ) | ug/kg | 10 | | ND1700 | ND1700 | ND1700 | ND1600 |
| 1,1,1-TRICHLORO-ETHANE | ug/kg | 5 | | ND870 | ND870 | ND870 | ND800 |
| CARBON TETRACHLORIDE | ug/kg | 5 | | ND870 | ND870 | ND870 | ND800 |
| VINYL ACETATE | ug/kg | 10 | | ND1700 | ND1700 | ND1700 | ND1600 |
| DICHLOROBROMOMETHANE | ug/kg | 5 | | ND870 | ND870 | ND870 | ND800 |
| 1,2-DICHLOROPROPANE | ug/kg | 5 | | ND870 | ND870 | ND870 | ND800 |
| CIS-1,3-DICHLOROPROPENE | ug/kg | 5 | | ND870 | ND870 | ND870 | ND800 |
| TRICHLOROETHYLENE | ug/kg | 5 | | ND870 | ND870 | ND870 | ND800 |
| DIBROMOCHLORO-METHANE | ug/kg | 5 | | ND870 | ND870 | ND870 | ND800 |
| 1,1,2-TRICHLORO-ETHANE | ug/kg | 5 | | ND870 | ND870 | ND870 | ND800 |
| BENZENE | ug/kg | 5 | | ND870 | ND870 | 200 J | 1600 |
| TRANS-1,3-DICHLOROPROPENE | ug/kg | 5 | | ND870 | ND870 | ND870 | ND800 |
| BROMOFORM | ug/kg | 5 | | ND870 | ND870 | ND870 | ND800 |
| 4-METHYL-2-PENTANONE (METHYL I-Bu KETON) | ug/kg | 10 | | ND1700 | ND1700 | ND1700 | ND1600 |
| 2-HEXANONE | ug/kg | 10 | | ND1700 | ND1700 | ND1700 | ND1600 |
| TETRACHLOROETHYLENE | ug/kg | 5 | | ND870 | ND870 | ND870 | ND800 |
| 1,1,2,2-TETRACHLORO-ETHANE | ug/kg | 5 | | ND870 | ND870 | ND870 | ND800 |
| TOLUENE | ug/kg | 5 | | 230 J | 280 J | 320 J | 1800 |
| CHLOROBENZENE | ug/kg | 5 | | ND870 | ND870 | ND870 | 1900 |
| ETHYL BENZENE | ug/kg | 5 | | ND870 | 270 J | 320 J | 3100 |
| STYRENE | ug/kg | 5 | | ND870 | ND870 | ND870 | ND800 |
| XYLENES | ug/kg | 5 | | 620 J | 570 J | 1900 | 20000 |
| PHENOL | ug/kg | 10 | | 140000 | 150000 | 45000 | 7100 J |
| BIS (2-CHLOROETHYL) ETHER | ug/kg | 10 | | ND23000 | ND21000 | ND19000 | ND21000 |
| 2-CHLOROPHENOL | ug/kg | 10 | | ND23000 | ND21000 | ND19000 | ND21000 |
| 1,3-DICHLOROBENZENE | ug/kg | 10 | | ND23000 | ND21000 | ND19000 | ND21000 |

OCCIDENTAL CHEMICAL CORPORATION
ENVIRONMENTAL DATABASE SYSTEM

ND-Not Detected above CRDL

SCHREIK'S SCRAPYARD
SOIL SAMPLES

Special Codes: D - FIELD DUPLICATE

Data Qualifiers: J - Identified using CLP criteria at a concentration below the method specified quantitation level.
B - Analyte was detected in the reagent blank, sample results not corrected.
H - Results are estimated, sample analyzed outside holding times.
N - Presumptively present, not confirmed by GC/MS.

| | | | Sample Date:--------> | 12/19/89 | 12/19/89 | 12/19/89 | 12/19/89 |
|---|---|---|---|---|---|---|---|
| | | | Sample Description:-> | SS 1 | SS 1 | SS 2 | SS 3 |
| | | | Special Code:-------> | D | | | |
| Analytes: | Units: | CRDL: | | | | | |
| 1,4-DICHLOROBENZENE | ug/kg | 10 | | ND23000 | ND21000 | ND19000 | ND21000 |
| BENZYL ALCOHOL | ug/kg | 10 | | ND23000 | ND21000 | ND19000 | ND21000 |
| 1,2-DICHLOROBENZENE | ug/kg | 10 | | ND23000 | ND21000 | ND19000 | ND21000 |
| 2-METHYLPHENOL | ug/kg | 10 | | ND23000 | ND21000 | ND19000 | ND21000 |
| BIS (2-CHLORO-ISOPROPYL) ETHER | ug/kg | 10 | | ND23000 | ND21000 | ND19000 | ND21000 |
| 4-METHYLPHENOL | ug/kg | 10 | | ND23000 | ND21000 | ND19000 | ND21000 |
| N-NITROSODI-N-PROPYLAMINE | ug/kg | 10 | | ND23000 | ND21000 | ND19000 | ND21000 |
| HEXACHLOROETHANE | ug/kg | 10 | | ND23000 | ND21000 | ND19000 | ND21000 |
| NITROBENZENE | ug/kg | 10 | | ND23000 | ND21000 | ND19000 | ND21000 |
| ISOPHORONE | ug/kg | 10 | | ND23000 | ND21000 | ND19000 | ND21000 |
| 2-NITROPHENOL | ug/kg | 10 | | ND23000 | ND21000 | ND19000 | ND21000 |
| 2,4-DIMETHYLPHENOL | ug/kg | 10 | | ND23000 | ND21000 | ND19000 | ND21000 |
| BENZOIC ACID | ug/kg | 50 | | ND110000 | ND110000 | ND97000 | ND100000 |
| BIS (2-CHLOROETHOXY) METHANE | ug/kg | 10 | | ND23000 | ND21000 | ND19000 | ND21000 |
| 2,4-DICHLOROPHENOL | ug/kg | 10 | | ND23000 | ND21000 | ND19000 | ND21000 |
| 1,2,4-TRICHLOROBENZENE | ug/kg | 10 | | ND23000 | ND21000 | ND19000 | ND21000 |
| NAPHTHALENE | ug/kg | 10 | | ND23000 | ND21000 | 3200 J | ND21000 |
| 4-CHLOROANILINE | ug/kg | 10 | | ND23000 | ND21000 | ND19000 | ND21000 |
| HEXACHLOROBUTADIENE | ug/kg | 10 | | ND23000 | ND21000 | ND19000 | ND21000 |
| 4-CHLORO-3-METHYLPHENOL | ug/kg | 10 | | ND23000 | ND21000 | ND19000 | ND21000 |
| 2-METHYLNAPTHALENE | ug/kg | 10 | | 2500 J | 2300 J | 9600 J | 7000 J |
| HEXACHLOROCYCLOPENTADIENE | ug/kg | 10 | | ND23000 | ND21000 | ND19000 | ND21000 |
| 2,4,6-TRICHLOROPHENOL | ug/kg | 10 | | ND23000 | ND21000 | ND19000 | ND21000 |
| 2,4,5-TRICHLOROPHENOL | ug/kg | 50 | | ND110000 | ND110000 | ND97000 | ND100000 |
| 2-CHLORONAPHTHALENE | ug/kg | 10 | | ND23000 | ND21000 | ND19000 | ND21000 |
| 2-NITROANILINE | ug/kg | 50 | | ND110000 | ND110000 | ND97000 | ND100000 |
| DIMETHYL PHTHALATE | ug/kg | 10 | | ND23000 | ND21000 | ND19000 | ND21000 |
| ACENAPHTHYLENE | ug/kg | 10 | | ND23000 | ND21000 | ND19000 | ND21000 |
| 2,6-DINITROTOLUENE | ug/kg | 10 | | ND23000 | ND21000 | ND19000 | ND21000 |
| 3-NITROANILINE | ug/kg | 50 | | ND110000 | ND110000 | ND97000 | ND100000 |
| ACENAPHTHENE | ug/kg | 10 | | ND23000 | ND21000 | ND19000 | ND21000 |
| 2,4-DINITROPHENOL | ug/kg | 50 | | ND110000 | ND110000 | ND97000 | ND100000 |
| 4-NITROPHENOL | ug/kg | 50 | | ND110000 | ND110000 | ND97000 | ND100000 |
| DIBENZOFURAN | ug/kg | 10 | | 41000 | 74000 | 52000 | 29000 |
| 2,4-DINITROTOLUENE | ug/kg | 10 | | ND23000 | ND21000 | ND19000 | ND21000 |
| DIETHYL PHTHALATE | ug/kg | 10 | | ND23000 | ND21000 | ND19000 | ND21000 |
| 4-CHLOROPHENYLPHENYL ETHER | ug/kg | 10 | | ND23000 | ND21000 | ND19000 | ND21000 |
| FLUORENE | ug/kg | 10 | | ND23000 | ND21000 | ND19000 | ND21000 |

OCCIDENTAL CHEMICAL CORPORATION
ENVIRONMENTAL DATABASE SYSTEM

ND-Not Detected above CRDL

SCHRECK'S SCRAPYARD
SOIL SAMPLES

Special Codes: D - FIELD DUPLICATE

Data Qualifiers:
J - Identified using CLP criteria at a concentration below the method specified quantitation level.
B - Analyte was detected in the reagent blank, sample results not corrected.
N - Presumptively present, not confirmed by GC/MS.

| | | | | | | |
|---|---|---|---|---|---|---|
| | Sample Date:--------> | | 12/19/89 | 12/19/89 | 12/19/89 | 12/19/89 |
| | Sample Description:-> | | SS 1 | SS 1 | SS 2 | SS 3 |
| | Special Code:--------> | | D | | | |
| Analytes: | Units: | CRDL: | | | | |
| 4-NITROANILINE | ug/kg | 50 | ND110000 | ND110000 | ND97000 | ND100000 |
| 4,6-DINITRO-O-CRESOL | ug/kg | 50 | ND110000 | ND110000 | ND97000 | ND100000 |
| N-NITROSODIPHENYLAMINE | ug/kg | 10 | ND23000 | ND21000 | ND19000 | ND21000 |
| 4-BROMOPHENYLPHENYL ETHER | ug/kg | 10 | ND23000 | ND21000 | ND19000 | ND21000 |
| HEXACHLOROBENZENE | ug/kg | 10 | ND23000 | ND21000 | ND19000 | ND21000 |
| PENTACHLOROPHENOL | ug/kg | 50 | ND110000 | ND110000 | ND97000 | ND100000 |
| PHENANTHRENE | ug/kg | 10 | 2400 J | 2900 J | 4100 J | 6800 J |
| ANTHRACENE | ug/kg | 10 | ND23000 | ND21000 | ND19000 | ND21000 |
| DI-N-BUTYL PHTHALATE | ug/kg | 10 | 4500 BJ | ND21000 | 2200 BJ | 2800 BJ |
| FLUORANTHENE | ug/kg | 10 | 3900 J | 4900 J | 3600 J | 7300 J |
| PYRENE | ug/kg | 10 | 5800 J | 6700 J | 4600 J | 6800 J |
| BUTYL BENZYL PHTHALATE | ug/kg | 10 | 9300 J | ND21000 | ND19000 | ND21000 |
| 3,3'-DICHLORO-BENZIDINE | ug/kg | 20 | ND46000 | ND43000 | ND39000 | ND41000 |
| BENZO(A)ANTHRACENE | ug/kg | 10 | ND23000 | 2800 J | ND19000 | 3200 J |
| CHRYSENE | ug/kg | 10 | 2700 J | 3500 J | ND19000 | 3000 J |
| BIS (2-ETHYLHEXYL) PHTHALATE | ug/kg | 10 | 17000 J | 14000 J | 11000 J | 5500 J |
| DI-N-OCTYL PHTHALATE | ug/kg | 10 | ND23000 | ND21000 | ND19000 | ND21000 |
| BENZO(B)FLUORANTHENE (3,4-BENZO) | ug/kg | 10 | 2800 J | 4100 J | 4100 J | 2700 J |
| BENZO(K)FLUORANTHENE | ug/kg | 10 | 2600 J | 1900 J | ND19000 | 2800 J |
| BENZO(A)PYRENE | ug/kg | 10 | 2400 J | 3000 J | ND19000 | 2700 J |
| INDENO (1,2,3-CD) PYRENE | ug/kg | 10 | ND23000 | ND21000 | ND19000 | ND21000 |
| DIBENZO (A,H) ANTHRACENE | ug/kg | 10 | ND23000 | ND21000 | ND19000 | ND21000 |
| BENZO(GHI)PERYLENE | ug/kg | 10 | ND23000 | ND21000 | ND19000 | ND21000 |
| PCB-1016 (AROCLOR 1016) | ug/kg | .50 | ND3200 | ND7700 | ND6700 | ND2800 |
| PCB-1221 (AROCLOR 1221) | ug/kg | .50 | ND3200 | ND7700 | ND6700 | ND2800 |
| PCB-1232 (AROCLOR 1232) | ug/kg | .50 | ND3200 | ND7700 | ND6700 | ND2800 |
| PCB-1242 (AROCLOR 1242) | ug/kg | .50 | ND3200 | 12000 N | 16000 N | ND2800 |
| PCB-1248 (AROCLOR 1248) | ug/kg | .50 | ND3200 | ND7700 | ND6700 | ND2800 |
| PCB-1254 (AROCLOR 1254) | ug/kg | 1 | ND6500 | 11000 NJ | 8300 NJ | 3100 NJ |
| PCB-1260 (AROCLOR 1260) | ug/kg | 1 | ND6500 | ND15000 | ND13000 | ND5700 |

Report Date: 03/22/90

OCCIDENTAL CHEMICAL CORPORATION
ENVIRONMENTAL DATABASE SYSTEM

ND-Not Detected above CRDL

SCHREEX'S SCRAPYARD
WASTE SAMPLES

Special Codes:

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H - Results are estimated, sample analyzed outside holding times.
N - Presumptively present, not confirmed by GC/MS.

| | | | Sample Date:--------> | 12/19/89 | 12/19/89 | 12/19/89 |
|---|---|---|---|---|---|---|
| | | | Sample Description:-> | WS 1 | WS 2 | WS 3 |
| | | | Special Code:-------> | | | |
| Analytes: | Units: | CRDL: | | | | |
| CHLOROMETHANE | ug/kg | 10 | | ND16000 | ND2200 | ND3500 |
| BROMOMETHANE | ug/kg | 10 | | ND16000 | ND2200 | ND3500 |
| VINYL CHLORIDE | ug/kg | 10 | | ND16000 | ND2200 | ND3500 |
| CHLOROETHANE | ug/kg | 10 | | ND16000 | ND2200 | ND3500 |
| METHYLENE CHLORIDE | ug/kg | 5 | | 17000 B | 2300 B | 3300 B |
| ACETONE | ug/kg | 10 | | ND16000 | ND2200 | ND3500 |
| CARBON DISULFIDE | ug/kg | 5 | | ND8200 | ND1100 | ND1700 |
| 1,1-DICHLOROETHYLENE | ug/kg | 5 | | ND8200 | ND1100 | ND1700 |
| 1,1-DICHLOROETHANE | ug/kg | 5 | | ND8200 | ND1100 | ND1700 |
| 1,2-DICHLOROETHENE (TOTAL) | ug/kg | 5 | | ND8200 | ND1100 | ND1700 |
| CHLOROFORM | ug/kg | 5 | | 1700 J | ND1100 | 420 J |
| 1,2-DICHLOROETHANE | ug/kg | 5 | | ND8200 | ND1100 | ND1700 |
| METHYL ETHYL KETONE ( 2-BUTANONE ) | ug/kg | 10 | | ND16000 | ND2200 | ND3500 |
| 1,1,1-TRICHLORO-ETHANE | ug/kg | 5 | | ND8200 | ND1100 | ND1700 |
| CARBON TETRACHLORIDE | ug/kg | 5 | | ND8200 | ND1100 | ND1700 |
| VINYL ACETATE | ug/kg | 10 | | ND16000 | ND2200 | ND3500 |
| DICHLOROBROMOMETHANE | ug/kg | 5 | | ND8200 | ND1100 | ND1700 |
| 1,2-DICHLOROPROPANE | ug/kg | 5 | | ND8200 | ND1100 | ND1700 |
| CIS-1,3-DICHLOROPROPENE | ug/kg | 5 | | ND8200 | ND1100 | ND1700 |
| TRICHLOROETHYLENE | ug/kg | 5 | | ND8200 | ND1100 | ND1700 |
| DIBROMOCHLORO-METHANE | ug/kg | 5 | | ND8200 | ND1100 | ND1700 |
| 1,1,2-TRICHLORO-ETHANE | ug/kg | 5 | | ND8200 | ND1100 | ND1700 |
| BENZENE | ug/kg | 5 | | 1900 J | 3300 | 4200 |
| TRANS-1,3-DICHLOROPROPENE | ug/kg | 5 | | ND8200 | ND1100 | ND1700 |
| BROMOFORM | ug/kg | 5 | | ND8200 | ND1100 | ND1700 |
| 4-METHYL-2-PENTANONE (METHYL I-Bu KETON) | ug/kg | 10 | | ND16000 | 1100 J | ND3500 |
| 2-HEXANONE | ug/kg | 10 | | ND16000 | 2100 J | ND3500 |
| TETRACHLOROETHYLENE | ug/kg | 5 | | ND8200 | ND1100 | ND1700 |
| 1,1,2,2-TETRACHLORO-ETHANE | ug/kg | 5 | | ND8200 | ND1100 | ND1700 |
| TOLUENE | ug/kg | 5 | | 7600 J | 16000 | 20000 |
| CHLOROBENZENE | ug/kg | 5 | | ND8200 | 2200 | 2300 |
| ETHYL BENZENE | ug/kg | 5 | | 11000 | 5700 | 7200 |
| STYRENE | ug/kg | 5 | | 930000 | ND1100 | ND1700 |
| XYLENES | ug/kg | 5 | | 1100 | 28000 | 30000 |
| PHENOL | ug/kg | 10 | | 9200000 | 1900000 | 3100000 |
| BIS (2-CHLOROETHYL) ETHER | ug/kg | 10 | | ND570000 | ND640000 | ND740000 |
| 2-CHLOROPHENOL | ug/kg | 10 | | ND570000 | ND640000 | ND740000 |
| 1,3-DICHLOROBENZENE | ug/kg | 10 | | ND570000 | ND640000 | ND740000 |

OCCIDENTAL CHEMICAL CORPORATION
ENVIRONMENTAL DATABASE SYSTEM

ND-Not Detected above CRDL

SCHREIK'S SCRAPYARD
WASTE SAMPLES

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| | | | | | |
|---|---|---|---|---|---|
| | Sample Date:--------> | | 12/19/89 | 12/19/89 | 12/19/89 |
| | Sample Description:-> | | WS 1 | WS 2 | WS 3 |
| | Special Code:--------> | | | | |
| Analytes: | Units: | CRDL: | | | |
| 1,4-DICHLOROBENZENE | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| BENZYL ALCOHOL | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| 1,2-DICHLOROBENZENE | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| 2-METHYLPHENOL | ug/kg | 10 | 240000 J | ND640000 | ND740000 |
| BIS (2-CHLORO-ISOPROPYL) ETHER | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| 4-METHYLPHENOL | ug/kg | 10 | 300000 J | ND640000 | ND740000 |
| N-NITROSODI-N-PROPYLAMINE | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| HEXACHLOROETHANE | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| NITROBENZENE | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| ISOPHORONE | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| 2-NITROPHENOL | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| 2,4-DIMETHYLPHENOL | ug/kg | 10 | 310000 J | ND640000 | ND740000 |
| BENZOIC ACID | ug/kg | 50 | ND2900000 | ND3200000 | ND3700000 |
| BIS (2-CHLOROETHOXY) METHANE | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| 2,4-DICHLOROPHENOL | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| 1,2,4-TRICHLOROBENZENE | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| NAPHTHALENE | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| 4-CHLOROANILINE | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| HEXACHLOROBUTADIENE | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| 4-CHLORO-3-METHYLPHENOL | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| 2-METHYLNAPTHALENE | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| HEXACHLOROCYCLOPENTADIENE | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| 2,4,6-TRICHLOROPHENOL | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| 2,4,5-TRICHLOROPHENOL | ug/kg | 50 | ND2900000 | ND3200000 | ND3700000 |
| 2-CHLORONAPHTHALENE | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| 2-NITROANILINE | ug/kg | 50 | ND2900000 | ND3200000 | ND3700000 |
| DIMETHYL PHTHALATE | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| ACENAPHTHYLENE | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| 2,6-DINITROTOLUENE | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| 3-NITROANILINE | ug/kg | 50 | ND2900000 | ND3200000 | ND3700000 |
| ACENAPHTHENE | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| 2,4-DINITROPHENOL | ug/kg | 50 | ND2900000 | ND3200000 | ND3700000 |
| 4-NITROPHENOL | ug/kg | 50 | ND2900000 | ND3200000 | ND3700000 |
| DIBENZOFURAN | ug/kg | 10 | 5700000 | 1200000 | 4900000 |
| 2,4-DINITROTOLUENE | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| DIETHYL PHTHALATE | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| 4-CHLOROPHENYLPHENYL ETHER | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| FLUORENE | ug/kg | 10 | ND570000 | ND640000 | ND740000 |

OCCIDENTAL CHEMICAL CORPORATION
ENVIRONMENTAL DATABASE SYSTEM

ND-not Detected above CRDL

SCHRECK'S SCRAPYARD
WASTE SAMPLES

Special Codes:

Data Qualifiers:
J - Identified using CLP criteria at a concentration below the method specified quantitation level.
B - Analyte was detected in the reagent blank, sample results not corrected.
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| | | | | | |
|---|---|---|---|---|---|
| Sample Date:--------> | | | 12/19/89 | 12/19/89 | 12/19/89 |
| Sample Description:-> | | | WS 1 | WS 2 | WS 3 |
| Special Code:-------> | | | | | |
| Analytes: | Units: | CRDL: | | | |
| 4-NITROANILINE | ug/kg | 50 | ND2900000 | ND3200000 | ND3700000 |
| 4,6-DINITRO-O-CRESOL | ug/kg | 50 | ND2900000 | ND3200000 | ND3700000 |
| N-NITROSODIPHENYLAMINE | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| 4-BROMOPHENYLPHENYL ETHER | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| HEXACHLOROBENZENE | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| PENTACHLOROPHENOL | ug/kg | 50 | ND2900000 | ND3200000 | ND3700000 |
| PHENANTHRENE | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| ANTHRACENE | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| DI-N-BUTYL PHTHALATE | ug/kg | 10 | ND570000 | 120000 J | ND740000 |
| FLUORANTHENE | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| PYRENE | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| BUTYL BENZYL PHTHALATE | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| 3,3'-DICHLORO-BENZIDINE | ug/kg | 20 | ND1100000 | ND1300000 | ND1500000 |
| BENZO(A)ANTHRACENE | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| CHRYSENE | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| BIS (2-ETHYLHEXYL) PHTHALATE | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| DI-N-OCTYL PHTHALATE | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| BENZO(B)FLUORANTHENE (3,4-BENZO) | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| BENZO(K)FLUORANTHENE | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| BENZO(A)PYRENE | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| INDENO (1,2,3-CD) PYRENE | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| DIBENZO (A,H) ANTHRACENE | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| BENZO(GHI)PERYLENE | ug/kg | 10 | ND570000 | ND640000 | ND740000 |
| PCB-1016 (AROCLOR 1016) | ug/kg | .50 | ND6800 | ND1500 | ND3600 |
| PCB-1221 (AROCLOR 1221) | ug/kg | .50 | ND6800 | ND1500 | ND3600 |
| PCB-1232 (AROCLOR 1232) | ug/kg | .50 | ND6800 | ND1500 | ND3600 |
| PCB-1242 (AROCLOR 1242) | ug/kg | .50 | 12000 N | 560 NJ | 5100 N |
| PCB-1248 (AROCLOR 1248) | ug/kg | .50 | ND6800 | ND1500 | ND3600 |
| PCB-1254 (AROCLOR 1254) | ug/kg | 1 | 7100 NJ | ND3000 | 3300 NJ |
| PCB-1260 (AROCLOR 1260) | ug/kg | 1 | ND14000 | ND3000 | ND7100 |

# APPENDIX B

# PHOTOGRAPHS

Photograph 1

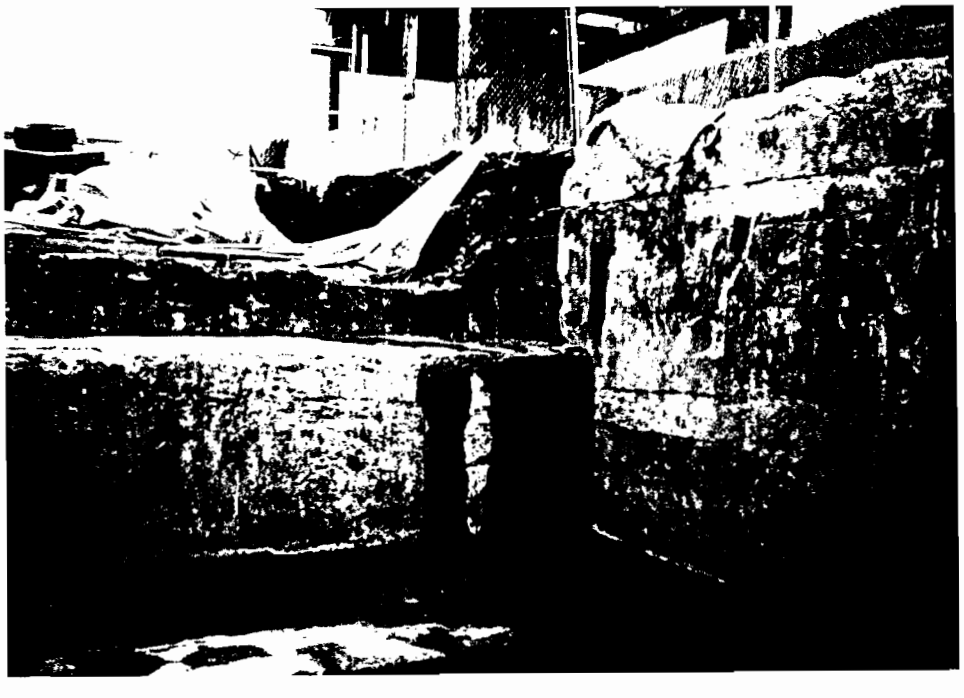
Excavation for the dewatering sump on the southeast portion of the Pit.
View is from south.

Photograph 2

View of partly excavated Pit from west.
Note ledge in foreground and the three piers.

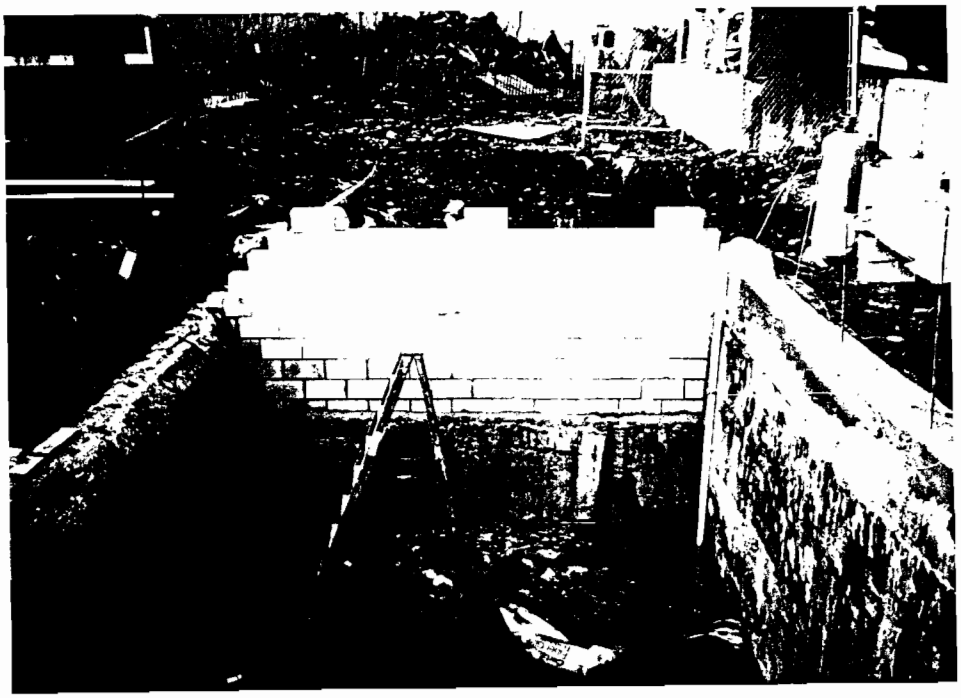
**Photograph 3**

**The Pit completely excavated. Note the three piers and south wall of Pit. View is from northwest.**



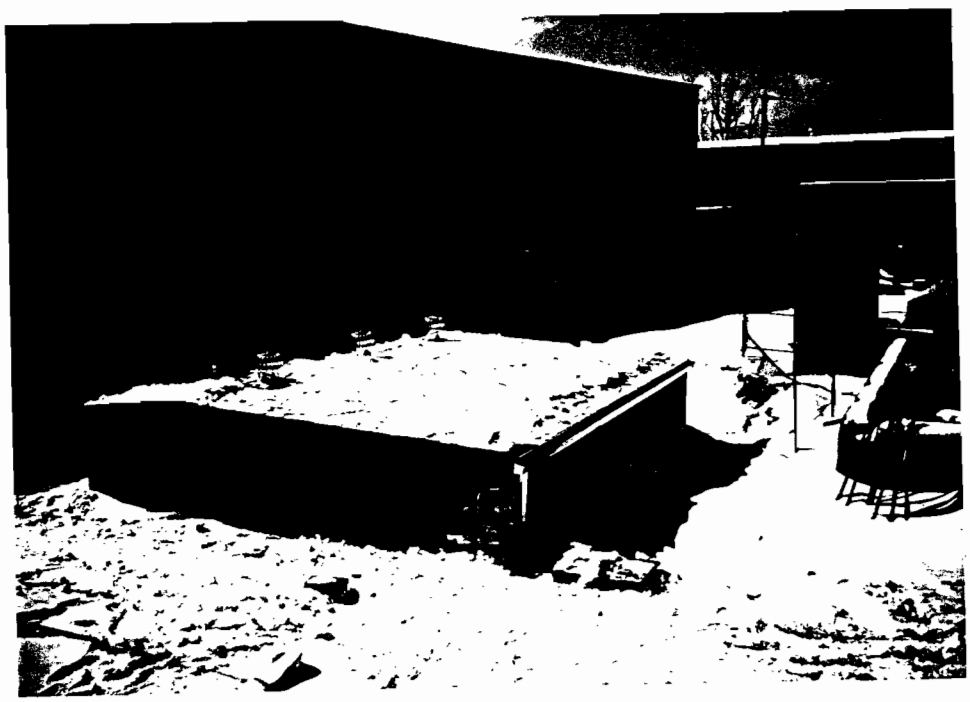
**Photograph 4**

**This photo was taken from inside the Pit looking west. Note the block west wall, sump location and ledge.**



**Photograph 5**

**This photo shows the location of the new west wall and concrete cap poured on the uneven existing walls. View from east.**



**Photograph 6**

**This photo shows the completed roof structure over the Pit. View is from the east.**

# APPENDIX C

# SUMMARY OF CHEMICAL ANALYSES

SUMMARY OF WASTE WATER SAMPLES
SCHRECK'S SCRAPYARD

| SAMPLE IDENTIFICATION | TANKER NUMBER | VOLUME IN TANKER | SAMPLE DATE | SAMPLE LOCATION |
|---|---|---|---|---|
| SSY-TS-1 A,B,C | 118 | +/- 6200 | 1/24/91 | Schreck's |
| 1 F SCHRECK | 118 | +/- 6200 | 1/31/91 | OCC Plant |
| 1 E SCHRECK | 118 | +/- 6200 | 1/31/91 | OCC Plant |
| SSY-TS-2 A,B,C | 109 | +/- 781 | 1/29/91 | Schreck's |
| SSY-TS-3 A,B,C | 109 | +/- 4750 | 3/6/91 | Schreck's |

INDUSTRIAL WASTE REMOVAL AND SOIL REMOVAL ACTION
SCHRECK'S SCRAPYARD
NORTH TONAWANDA, NEW YORK
RESULTS OF SEMI-VOLATILE ORGANIC ANALYSIS
WASTE WATER SAMPLES

Data Qualifiers: J - Identified using CLP criteria at a concentration below the method specified quanitation level.
B - Analyte was detected in the reagent blank, sample results not corrected.
D - Identified all compounds in an analysis at a secondary dilution factor.
ND - Not Detected at or above.

| ANALYTES | CONTRACT REQUIRED QUANTITATION LIMITS ug/kg | TANKER NO. 118 1ESCHRECK (5) | 1FSCHRECK (3) | TANKER NO. 109 SSY-TS-2 |
|---|---|---|---|---|
| Phenol | 10 | 50000 D (1) | 650000 D(1) | 1300000 BD(1) |
| bis (2-Chloroethyl) Ether | 10 | ND 25 | ND 1400 | ND 120 |
| 2-Chlorophenol | 10 | ND 25 | ND 1400 | 100 J |
| 1,3-Dichlorobenzene | 10 | ND 25 | ND 1400 | ND 120 |
| 1,4-Dichlorobenzene | 10 | ND 25 | ND 1400 | ND 120 |
| Benzyl Alcohol | 10 | ND 25 | ND 1400 | ND 120 |
| 1,2-Dichlorobenzene | 10 | ND 25 | ND 1400 | ND 120 |
| 2-Methylphenol | 10 | ND 25 | 3600 | ND 120000 (1) |
| bis (2-Chloroisopropyl) Ether | 10 | ND 25 | ND 1400 | ND 120 |
| 4-Methylphenol | 10 | ND 25 | 3700 | ND 120000 (1) |
| N-nitroso-Di-n-Propylamine | 10 | ND 25 | ND 1400 | ND 120 |
| Hexachloroethane | 10 | ND 25 | ND 1400 | ND 120 |
| Nitrobenzene | 10 | ND 25 | ND 1400 | ND 120 |
| Isophorone | 10 | ND 25 | ND 1400 | ND 120 |
| 2-Nitrophenol | 10 | ND 25 | ND 1400 | ND 120 |
| 2,4-Dimethylphenol | 10 | ND 25 | 1300 J | 1300 |
| Benzoic Acid | 50 | ND 120 | ND 7200 | ND 620 |
| bis (2-Chloroethoxy) Methane | 10 | ND 25 | ND 1400 | ND 120 |
| 2,4-Dichlorophenol | 10 | ND 25 | 270 J | 930 |
| 1,2,4-Trichlorobenzene | 10 | ND 25 | ND 1400 | ND 120 |
| Naphthalene | 10 | ND 25 | ND 1400 | 77 J |
| 4-Chloroaniline | 10 | ND 25 | ND 1400 | ND 120 |
| Hexachlorobutadiene | 10 | ND 25 | ND 1400 | ND 120 |
| 4-Chloro-3-Methylphenol | 10 | ND 25 | ND 1400 | ND 120 |
| 2-Methylnaphthalene | 10 | ND 25 | ND 1400 | ND 120 |
| Hexachlorocyclopentadiene | 10 | ND 25 | ND 1400 | ND 120 |
| 2,4,6-Trichlorophenol | 10 | 4900 DJ (2) | 5400 | ND 120 |
| 2,4,5-Trichlorophenol | 50 | ND 6200 (2) | ND 7200 | ND 620000 (1) |
| 2-Chloronaphthalene | 10 | ND 25 | ND 1400 | ND 120 |
| 2-Nitroaniline | 50 | ND 120 | ND 7200 | ND 620 |
| Dimethyl Phthalate | 10 | ND 25 | ND 1400 | ND 120 |
| Acenaphthylene | 10 | ND 25 | ND 1400 | ND 120 |
| 2,6-Dinitrotoluene | 10 | ND 25 | ND 1400 | ND 120 |
| 3-Nitroaniline | 50 | ND 120 | ND 7200 | ND 620 |
| Acenaphthene | 10 | ND 25 | ND 1400 | ND 120 |
| 2,4-Dinitrophenol | 50 | ND 120 | ND 7200 | ND 620 |
| 4-Nitrophenol | 50 | ND 120 | ND 7200 | ND 620 |
| Dibenzofuran | 10 | 5600 DJ (2) | 1200 J | 890 |
| 2,4-Dinitrotoluene | 10 | ND 25 | ND 1400 | ND 120 |
| Diethylphthalate | 10 | ND 25 | ND 1400 | ND 120 |
| 4-Chlorophenyl-phenylether | 10 | ND 25 | ND 1400 | ND 120 |
| Fluorene | 10 | ND 25 | ND 1400 | ND 120 |
| 4-Nitroaniline | 50 | ND 120 | ND 7200 | ND 620 |
| 4,6-Dinitro-2-Methylphenol | 50 | ND 120 | ND 7200 | ND 620 |
| N-Nitrosodiphenylamine (1) | 10 | ND 25 | ND 1400 | ND 120 |
| 4-Bromophenyl-phenylether | 10 | ND 25 | ND 1400 | ND 120 |
| Hexachlorobenzene | 10 | ND 25 | ND 1400 | ND 120 |
| Pentachlorophenol | 50 | ND 120 | ND 7200 | ND 620 |
| Phenanthrene | 10 | ND 25 | ND 1400 | ND 120 |
| Anthracene | 10 | ND 25 | ND 1400 | ND 120 |
| Di-n-Butylphthalate | 10 | ND 25 | ND 1400 | ND 120 |

INDUSTRIAL WASTE REMOVAL AND SOIL REMOVAL ACTION
SCHRECK'S SCRAPYARD
NORTH TONAWANDA, NEW YORK
RESULTS OF SEMI-VOLATILE ORGANIC ANALYSIS
WASTE WATER SAMPLES

Data Qualifiers: J - Identified using CLP criteria at a concentration below the method specified quantitation level.
B - Analyte was detected in the reagent blank, sample results not corrected.
D - Identified all compounds in an analysis at a secondary dilution factor.
ND - Not Detected at or above.

| | CONTRACT REQUIRED QUANTITATION LIMITS | TANKER NO. 118 | | TANKER NO. 109 |
|---|---|---|---|---|
| ANALYTES | ug/kg | 1ESCHRECK (5) | 1FSCHRECK (3) | SSY-TS-2 |
| Fluoranthene | 10 | ND 25 | ND 1400 | ND 120 |
| Pyrene | 10 | ND 25 | ND 1400 | ND 120 |
| Butylbenzylphthalate | 10 | ND 25 | ND 1400 | ND 120 |
| 3,3-Dichlorobenzidine | 20 | ND 50 | ND 2900 | ND 120 |
| Benzo(a)Anthracene | 10 | ND 25 | ND 1400 | ND 250 |
| Chrysene | 10 | ND 25 | ND 1400 | ND 120 |
| Bis(2-Ethylhexyl)Phthalate | 10 | ND 25 | ND 1400 | ND 120 |
| Di-n-Octyl Phthalate | 10 | ND 25 | ND 1400 | ND 120 |
| Benzo(b)Fluoranthene | 10 | ND 25 | ND 1400 | ND 120 |
| Benzo(k)Fluoranthene | 10 | ND 25 | ND 1400 | ND 120 |
| Benzo(a)Pyrene | 10 | ND 25 | ND 1400 | ND 120 |
| Indeno(1,2,3-cd)Pyrene | 10 | ND 25 | ND 1400 | ND 120 |
| Dibenz(a,h)Anthracene | 10 | ND 25 | ND 1400 | ND 120 |
| Benzo(g,h,i)Perylene | 10 | ND 25 | ND 1400 | ND 120 |

(1) Dilution Factor of 10,000
(2) Dilution Factor of 1,000
(3) Dilution Factor of 100
(4) Dilution Factor of 10
(5) Dilution Factor of 2

INDUSTRIAL WASTE REMOVAL AND SOIL REMOVAL ACTION
SCHRECK'S SCRAPYARD
NORTH TONAWANDA, NEW YORK
RESULTS OF SEMI-VOLATILE ORGANIC ANALYSIS
SOIL SAMPLES

Data Qualifiers: J - Identified using CLP criteria at a concentration below the method specified quanitation level.
B - Analyte was detected in the reagent blank, sample results not corrected.
D - Identified all compounds in an analysis at a secondary dilution factor.
ND - Not Detected at or above.

| ANALYTES | CONTRACT REQUIRED QUANTITATION LIMITS ug/kg | SSY-ES-1E (3) | SSY-ES-1W (3) | SSY-ES-3E (3) | SSY-ES-3W (3) | SSY-ES-5E (3) | SSY-ES-5W (3) | SSY-ES-7W (3) | SSY-ES-7W DUP (3) | SSY-ES-8 (3) |
|---|---|---|---|---|---|---|---|---|---|---|
| Phenol | 330 | 2900000 D(4) | ND 49000 | ND 47000 | 12000 J | 9000000 D(1) | 370000 | 710000 | 430000 DJ(4) | 14000000 D(5) |
| bis (2-Chloroethyl) Ether | 330 | ND 50000 | ND 49000 | ND 47000 | ND 50000 | ND 51000 | ND 48000 | ND 51000 | ND 49000 | ND 47000 |
| 2-Chlorophenol | 330 | ND 50000 | ND 49000 | ND 47000 | ND 50000 | ND 51000 | ND 48000 | ND 51000 | ND 49000 | ND 47000 |
| 1,3-Dichlorobenzene | 330 | ND 50000 | ND 49000 | ND 47000 | ND 50000 | ND 51000 | ND 48000 | ND 51000 | ND 49000 | ND 47000 |
| 1,4-Dichlorobenzene | 330 | ND 50000 | ND 49000 | ND 47000 | ND 50000 | ND 51000 | ND 48000 | ND 51000 | ND 49000 | ND 47000 |
| Benzyl Alcohol | 330 | ND 50000 | ND 49000 | ND 47000 | ND 50000 | ND 51000 | ND 48000 | ND 51000 | ND 49000 | ND 47000 |
| 1,2-Dichlorobenzene | 330 | ND 50000 | ND 49000 | ND 47000 | ND 50000 | ND 51000 | ND 48000 | ND 51000 | ND 49000 | ND 47000 |
| 2-Methylphenol | 330 | 17000 J | ND 49000 | ND 47000 | ND 50000 | 55000 | ND 48000 | ND 51000 | ND 49000 | 38000 J |
| bis (2-Chloroisopropyl) Ether | 330 | ND 50000 | ND 49000 | ND 47000 | ND 50000 | ND 51000 | ND 48000 | ND 51000 | ND 49000 | ND 47000 |
| 4-Methylphenol | 330 | 20000 J | ND 49000 | ND 47000 | ND 50000 | 58000 | ND 48000 | ND 51000 | ND 49000 | ND 47000 |
| N-nitroso-Di-n-Propylamine | 330 | ND 50000 | ND 49000 | ND 47000 | ND 50000 | ND 51000 | ND 48000 | ND 51000 | ND 49000 | ND 47000 |
| Hexachloroethane | 330 | ND 50000 | ND 49000 | ND 47000 | ND 50000 | ND 51000 | ND 48000 | ND 51000 | ND 49000 | ND 47000 |
| Nitrobenzene | 330 | ND 50000 | ND 49000 | ND 47000 | ND 50000 | ND 51000 | ND 48000 | ND 51000 | ND 49000 | ND 47000 |
| Isophorone | 330 | ND 50000 | ND 49000 | ND 47000 | ND 50000 | ND 51000 | ND 48000 | ND 51000 | ND 49000 | ND 47000 |
| 2-Nitrophenol | 330 | ND 50000 | ND 49000 | ND 47000 | ND 50000 | ND 51000 | ND 48000 | ND 51000 | ND 49000 | ND 47000 |
| 2,4-Dimethylphenol | 330 | ND 50000 | ND 49000 | ND 47000 | ND 50000 | ND 51000 | ND 48000 | ND 51000 | ND 49000 | 13000 J |
| Benzoic Acid | 1600 | 2700 J | ND 240000 | ND 230000 | ND 240000 | ND 250000 | ND 230000 | ND 250000 | ND 240000 | ND 230000 |
| bis (2-Chloroethoxy) Methane | 330 | ND 50000 | ND 49000 | ND 47000 | ND 50000 | ND 51000 | ND 48000 | ND 51000 | ND 49000 | ND 47000 |
| 2,4-Dichlorophenol | 330 | ND 50000 | ND 49000 | ND 47000 | ND 50000 | 6600 J | ND 48000 | ND 51000 | ND 49000 | ND 47000 |
| 1,2,4-Trichlorobenzene | 330 | ND 50000 | ND 49000 | ND 47000 | ND 50000 | ND 51000 | ND 48000 | ND 51000 | ND 49000 | ND 47000 |
| Naphthalene | 330 | ND 50000 | ND 49000 | ND 44000 | 10000 J | 4600 J | 6500 J | 5400 J | 5600 J | 5100 J |
| 4-Chloroaniline | 330 | ND 50000 | ND 49000 | ND 47000 | ND 50000 | ND 51000 | ND 48000 | ND 51000 | ND 49000 | ND 47000 |
| Hexachlorobutadiene | 330 | ND 50000 | ND 49000 | ND 47000 | ND 50000 | ND 51000 | ND 48000 | ND 51000 | ND 49000 | ND 47000 |
| 4-Chloro-3-Methylphenol | 330 | ND 50000 | ND 49000 | ND 47000 | ND 50000 | ND 51000 | ND 48000 | ND 51000 | ND 49000 | ND 47000 |
| 2-Methylnaphthalene | 330 | ND 50000 | ND 49000 | 56000 | 20000 J | 5800 J | 8100 J | 7600 J | 4400 J | 4000 J |
| Hexachlorocyclopentadiene | 330 | ND 50000 | ND 49000 | ND 47000 | ND 50000 | ND 51000 | ND 48000 | ND 51000 | ND 49000 | ND 47000 |
| 2,4,6-Trichlorophenol | 330 | 6600 J | ND 49000 | ND 47000 | ND 50000 | 28000 J | ND 48000 | ND 51000 | ND 49000 | ND 47000 |
| 2,4,5-Trichlorophenol | 1600 | ND 240000 | ND 240000 | ND 230000 | ND 240000 | ND 250000 | ND 230000 | ND 250000 | ND 240000 | ND 59000 |
| 2-Chloronaphthalene | 330 | ND 50000 | ND 49000 | ND 47000 | ND 50000 | ND 51000 | ND 48000 | ND 51000 | ND 49000 | ND 47000 |
| 2-Nitroaniline | 1600 | ND 240000 | ND 240000 | ND 230000 | ND 240000 | ND 250000 | ND 230000 | ND 250000 | ND 240000 | ND 230000 |
| Dimethyl Phthalate | 330 | ND 50000 | ND 49000 | ND 47000 | ND 50000 | 6000 | ND 48000 | ND 51000 | ND 49000 | ND 47000 |
| Acenaphthylene | 330 | ND 50000 | ND 49000 | ND 47000 | ND 50000 | ND 51000 | ND 48000 | ND 51000 | ND 49000 | ND 47000 |
| 2,6-Dinitrotoluene | 330 | ND 50000 | ND 49000 | ND 47000 | ND 50000 | ND 51000 | ND 48000 | ND 51000 | ND 49000 | ND 47000 |
| 3-Nitroaniline | 330 | ND 240000 | ND 240000 | ND 230000 | ND 240000 | ND 250000 | ND 230000 | ND 250000 | ND 240000 | ND 230000 |
| Acenaphthene | 330 | ND 50000 | ND 49000 | ND 47000 | 2900 J | ND 51000 | ND 48000 | ND 51000 | ND 49000 | ND 47000 |
| 2,4-Dinitrophenol | 1600 | ND 240000 | ND 240000 | ND 230000 | ND 240000 | ND 250000 | ND 230000 | ND 250000 | ND 240000 | ND 230000 |
| 4-Nitrophenol | 1600 | ND 240000 | ND 240000 | ND 230000 | ND 240000 | ND 250000 | ND 230000 | ND 250000 | ND 240000 | ND 230000 |

INDUSTRIAL WASTE REMOVAL AND SOIL REMOVAL ACTION
SCHRECK'S SCRAPYARD
NORTH TONAWANDA, NEW YORK
RESULTS OF SEMI-VOLATILE ORGANIC ANALYSIS
SOIL SAMPLES

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B - Analyte was detected in the reagent blank, sample results not corrected.
D - Identified all compounds in an analysis at a secondary dilution factor.
ND - Not Detected at or above.

| ANALYTES | CONTRACT REQUIRED QUANTITATION LIMITS ug/kg | SSY-ES-1E (3) | SSY-ES-1W (3) | SSY-ES-3E (3) | SSY-ES-3W (3) | SSY-ES-5E (3) | SSY-ES-5W (3) | SSY-ES-7W (3) | SSY-ES-7W DUP (3) | SSY-ES-8 (3) |
|---|---|---|---|---|---|---|---|---|---|---|
| Dibenzofuran | 330 | 780000 D(4) | ND 49000 | 58000 | 170000 | 10000000 D(1) | 3200000 E | 1600000 D(4) | 1100000 D(4) | 6900000 D(5) |
| 2,4-Dinitrotoluene | 330 | ND 50000 | ND 49000 | ND 47000 | ND 50000 | ND 51000 | ND 48000 | ND 51000 | ND 49000 | ND 47000 |
| Diethylphthalate | 330 | ND 50000 | ND 49000 | ND 47000 | ND 50000 | ND 51000 | ND 48000 | ND 51000 | ND 49000 | ND 47000 |
| 4-Chlorophenyl-phenylether | 330 | ND 50000 | ND 49000 | ND 47000 | ND 50000 | 18000 J | 5000 J | ND 51000 | ND 49000 | ND 47000 |
| Fluorene | 330 | ND 50000 | ND 49000 | ND 47000 | ND 50000 | ND 51000 | ND 48000 | ND 51000 | ND 49000 | ND 47000 |
| 4-Nitroaniline | 1600 | ND 240000 | ND 240000 | ND 230000 | ND 240000 | ND 250000 | ND 230000 | ND 250000 | ND 240000 | ND 230000 |
| 4,6-Dinitro-2-Methylphenol | 1600 | ND 240000 | ND 240000 | ND 230000 | ND 240000 | ND 250000 | ND 230000 | ND 250000 | ND 240000 | ND 230000 |
| N-Nitrosodiphenylamine | 330 | ND 50000 | ND 49000 | ND 47000 | ND 50000 | ND 51000 | ND 48000 | ND 51000 | ND 49000 | ND 47000 |
| 4-Bromophenyl-phenylether | 330 | ND 50000 | ND 49000 | ND 47000 | ND 50000 | ND 51000 | ND 48000 | ND 51000 | ND 49000 | ND 47000 |
| Hexachlorobenzene | 330 | ND 50000 | ND 49000 | ND 47000 | ND 50000 | ND 51000 | ND 48000 | ND 51000 | ND 49000 | ND 47000 |
| Pentachlorophenol | 1600 | ND 240000 | ND 240000 | ND 230000 | ND 240000 | ND 250000 | ND 230000 | ND 250000 | ND 240000 | ND 230000 |
| Phenanthrene | 330 | ND 50000 | ND 49000 | 16000 J | 16000 J | 7300 J | 5900 J | ND 51000 | ND 49000 | ND 47000 |
| Anthracene | 330 | ND 50000 | ND 49000 | ND 47000 | 4100 J | ND 51000 | ND 48000 | ND 51000 | ND 49000 | ND 47000 |
| Di-n-Butylphthalate | 330 | ND 50000 | ND 49000 | 38000 J | ND 50000 | ND 51000 | ND 48000 | 13000 J | ND 49000 | ND 47000 |
| Fluoranthene | 330 | ND 50000 | ND 49000 | 6800 J | 18000 J | ND 51000 | ND 48000 | ND 51000 | ND 49000 | ND 47000 |
| Pyrene | 330 | ND 50000 | ND 49000 | 5600 J | 17000 J | ND 51000 | ND 48000 | 6600 J | 6400 J | ND 47000 |
| Butylbenzylphthalate | 330 | ND 50000 | 6200 J | 15000 J | 3500 J | ND 51000 | ND 48000 | ND 51000 | 21000 J | ND 47000 |
| 3,3-Dichlorobenzidine | 660 | ND 99000 | ND 98000 | ND 93000 | ND 100000 | ND 100000 | ND 96000 | ND 100000 | ND 99000 | ND 94000 |
| Benzo(a)Anthracene | 330 | ND 50000 | ND 49000 | ND 47000 | 11000 J | ND 51000 | ND 48000 | ND 51000 | ND 49000 | ND 47000 |
| Chrysene | 330 | ND 50000 | ND 49000 | ND 47000 | 9800 J | ND 51000 | ND 48000 | ND 51000 | ND 49000 | ND 47000 |
| Bis(2-Ethylhexyl)Phthalate | 330 | 10000 J | 8700 J | 28000 J | 6800 J | ND 51000 | 34000 J | 9200 J | 8400 J | ND 47000 |
| Di-n-Octyl Phthalate | 330 | ND 50000 | ND 49000 | ND 47000 | ND 50000 | ND 51000 | ND 48000 | ND 51000 | ND 49000 | ND 47000 |
| Benzo(b)Fluoranthene | 330 | ND 50000 | ND 49000 | ND 47000 | 10000 J | ND 51000 | ND 48000 | ND 51000 | ND 49000 | ND 47000 |
| Benzo(k)Fluoranthene | 330 | ND 50000 | ND 49000 | ND 47000 | 4100 J | ND 51000 | ND 48000 | ND 51000 | ND 49000 | ND 47000 |
| Benzo(a)Pyrene | 330 | ND 50000 | ND 49000 | ND 47000 | 8700 J | ND 51000 | ND 48000 | ND 51000 | ND 49000 | ND 47000 |
| Indeno(1,2,3-cd)Pyrene | 330 | ND 50000 | ND 49000 | ND 47000 | 4000 J | ND 51000 | ND 48000 | ND 51000 | ND 49000 | ND 47000 |
| Dibenz(a,h)Anthracene | 330 | ND 50000 | ND 49000 | ND 47000 | ND 50000 | ND 51000 | ND 48000 | ND 51000 | ND 49000 | ND 47000 |
| Benzo(g,h,i)Perylene | 330 | ND 50000 | ND 49000 | ND 47000 | ND 50000 | ND 51000 | ND 48000 | ND 51000 | ND 49000 | ND 47000 |

(1) Dilution Factor of 100
(2) Dilution Factor of 10
(3) Dilution Factor of 2
(4) Dilution Factor of 20
(5) Dilution Factor of 50

INDUSTRIAL WASTE REMOVAL AND SOIL REMOVAL ACTION
SCHRECK'S SCRAPYARD
NORTH TONAWANDA, NEW YORK
RESULTS OF PCB ANALYSIS
SOIL SAMPLES

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B - Analyte was detected in the reagent blank, sample results not corrected.
D - Identified all compounds in an analysis at a secondary dilution factor.
ND - Not Detected at or above.

| ANALYTES | SSY-ES-1E (2) | SSY-ES-1W (3) | SSY-ES-3E (3) | SSY-ES-3W (3) | SSY-ES-5E (1) | SSY-ES-5W (3) | SSY-ES-7W (3) | SSY-ES-7W DUP (3) | SSY-ES-8 (1) |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | ND 3000 | ND 6700 | ND 7600 | ND 1500 | ND 1600 | ND 1500 | ND 7100 | ND 8200 | ND 1600 |
| Aroclor 1221 | ND 3000 | ND 6700 | ND 7600 | ND 1500 | ND 1600 | ND 1500 | ND 7100 | ND 8200 | ND 1600 |
| Aroclor 1232 | ND 3000 | ND 6700 | ND 7600 | ND 1500 | ND 1600 | ND 1500 | ND 7100 | ND 8200 | ND 1600 |
| Aroclor 1242 | 18000 | 50000 | 47000 | 3100 | 13000 | 5600 | 66000 | 80000 | 8600 |
| Aroclor 1248 | ND 3000 | ND 6700 | ND 7600 | ND 1500 | ND 1600 | ND 1500 | ND 7100 | ND 8200 | ND 1600 |
| Aroclor 1254 | 15000 | 20000 | 6700 J | 3900 | 6900 | 4700 | ND 14000 | ND 16000 | 4500 |
| Aroclor 1260 | ND 6000 | ND 13000 | ND 15000 | ND 3000 | ND 3100 | ND 2900 | ND 14000 | ND 16000 | ND 3399 |

(1) Dilution Factor of 1
(2) Dilution Factor of 2
(3) Dilution Factor of 3

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# APPENDIX D

# AIR QUALITY MONITORING RESULTS

INDUSTRIAL WASTE AND SOIL REMOVAL ACTION
SCHRECK'S SCRAPYARD
North Tonawanda, New York

DAILY AIR QUALITY MONITORING RESULTS
Date: 1-18-91

Calibration (PID) HNU Span — at 56 ppm PID Background .1 ppm Scott Alert LEL — % and — %
PCB Air Sample No. Upwind SSY-AS-1 /Downwind SSY-AS-2
Average Flow Rate 204.1 cc/m/ 201.4 cc/m Total Volume 77.14 l / 76.14 l
Temperature 0°C. Wind Direction SW Speed 15MPH Barometric Pressure 29.93

AIR QUALITY READINGS

| Time | Location | Activity | PID (ppm) | O2 (%) | LEL (%) | Dust (mg/m3) | Wind Direction |
|---|---|---|---|---|---|---|---|
| 1:20pm | PERIMETER | ROAD CONST. | .1 | — | — | .00 | SW |
| 1:25pm | BREATH. ZONE | ROAD CONST. | .1 | — | — | — | SW |
| 1:30 pm | PERIMETER | ROAD CONST. | .1 | — | — | .00 | SW |
| 1:50 pm | PERIMETER | ROAD CONST. | .1 | — | — | — | — |
| 2:20pm | PERIMETER | ROAD CONST. | .1 | — | — | .00 | SW |
| 2:30pm | PERIMETER | ROAD CONST | .1 | — | — | .00 | SW |
| 3:00 | ——— | END WORK | ——— | ——— | ——— | ——— | ——— |
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Integrated Work Day PCB Air Monitoring Results: Upwind ND* Downwind ND*
* Not detected at or above one microgram per cubic meter.

INDUSTRIAL WASTE AND SOIL REMOVAL ACTION
SCHRECK'S SCRAPYARD
North Tonawanda, New York

DAILY AIR QUALITY MONITORING RESULTS
Date: 1-21-91

Calibration (PID) HNU Span 8.9 at 56 ppm PID Background .1 ppm Scott Alert LEL — % and — %
PCB Air Sample No. Upwind SSY-AS-4 /Downwind SSY-AS-3
Average Flow Rate 216.7 cc/m/ 218.4 cc/m Total Volume 67.19ℓ / 67.29ℓ
Temperature -8°C Wind Direction NORTH Speed — Barometric Pressure 29.90

AIR QUALITY READINGS

| Time | Location | Activity | PID (ppm) | O2 (%) | LEL (%) | Dust (mg/m3) | Wind Direction |
|---|---|---|---|---|---|---|---|
| 12:30pm | PERIMETER | ROAD CONST. | — | — | — | .00 | NORTH |
| 1:30 pm | PERIMETER | ROAD CONST. | .1 | — | — | .00 | NORTH |
| 1:45 pm | BREATH.ZONE | ROAD CONST | .1 | — | — | .00 | NORTH |
| 3:00pm | BREATH. ZONE | ROAD CONST. | .1 | — | — | .00 | NORTH |
| 3:00 pm | PERIMETER | ROAD CONST. | .1 | — | — | .00 | — |
| 4:00pm | ——— | END WORK | ——— | ——— | ——— | ——— | ——— |
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Integrated Work Day PCB Air Monitoring Results: Upwind ND* Downwind ND*
* Not detected at or above one microgram per cubic meter.

INDUSTRIAL WASTE AND SOIL REMOVAL ACTION
SCHRECK'S SCRAPYARD
North Tonawanda, New York

DAILY AIR QUALITY MONITORING RESULTS
Date: 1-22-91

Calibration (PID) HNU Span 6.4 at 56 ppm PID Background .1 ppm Scott Alert LEL — % and — %
PCB Air Sample No. Upwind SSY-AS-6 /Downwind SSY-AS-5
Average Flow Rate _____ cc/m/_____ cc/m Total Volume 118.8Q / 118.8Q
Temperature -12°C Wind Direction WEST Speed 2-7MPH Barometric Pressure 30.11

AIR QUALITY READINGS

| Time | Location | Activity | PID (ppm) | O2 (%) | LEL (%) | Dust (mg/m3) | Wind Direction |
|---|---|---|---|---|---|---|---|
| 7:00 AM | PERIMETER | NONE | .1 | ——— | ——— | ——— | WEST |
| ↓ | | | | | | | |
| 1:20 pm | PERIMETER | ROAD CONST. | .1 | ——— | ——— | .00 | WEST |
| 2:20 pm | PERIMETER | ROAD CONST. | .1 | ——— | ——— | .00 | WEST |
| 2:20 pm | BREATH ZONE | ROAD CONST. | .1 | ——— | ——— | .00 | WEST |
| 3:00 pm | PERIMETER | ROAD CONST. | .1 | | | .00 | WEST |
| 3:00 | ——— | END WORK | ——— | ——— | ——— | ——— | ——— |

Integrated Work Day PCB Air Monitoring Results: Upwind _____ Downwind _____
* Not detected at or above one microgram per cubic meter.

INDUSTRIAL WASTE AND SOIL REMOVAL ACTION
SCHRECK'S SCRAPYARD
North Tonawanda, New York

DAILY AIR QUALITY MONITORING RESULTS
Date: 1-23-91

Calibration (PID) HNU Span — at 56 ppm PID Background .1 ppm Scott Alert LEL — % and — %
PCB Air Sample No. Upwind SSY-AS-7 /Downwind SSY-AS-8
Average Flow Rate 189.7 cc/m/ 189.7 cc/m Total Volume 113.8ℓ / 113.8ℓ
Temperature -3°C Wind Direction SW Speed 16-20MPH Barometric Pressure 29.70

AIR QUALITY READINGS

| Time | Location | Activity | PID (ppm) | O2 (%) | LEL (%) | Dust (mg/m3) | Wind Direction |
|---|---|---|---|---|---|---|---|
| 7:20 AM | PERIMETER | NONE | .1 | — | — | .00 | WEST |
| 9:45 | PERIMETER | ROAD CONST. | .1 | — | — | .00 | WEST |
| 9:45 | BREATH ZONE | ROAD CONST. | .1 | — | — | .00 | WEST |
| 10:30 | PERIMETER | ROAD CONST. | .1 | — | — | .00 | WEST |
| 12:50 | PERIMETER | ROAD CONST. | .1 | — | — | .00 | WEST |
| 1:50 | BREATH. ZONE | EXCAVATION | .1-.5 | — | — | .00 | WEST |
| 1:50 | PERIMETER | EXCAVATION | .1 | — | — | .00 | WEST |
| 2:30 | BREATH. ZONE | EXCAVATION | .1-.5 | — | — | .00 | WEST |
| 2:30 | PERIMETER | EXCAVATION | .1 | — | — | .00 | WEST |
| 3:15 | PERIMETER | END WORK | .1 | — | — | .00 | WEST |
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Integrated Work Day PCB Air Monitoring Results: Upwind ND* Downwind ND*
* Not detected at or above one microgram per cubic meter.

INDUSTRIAL WASTE AND SOIL REMOVAL ACTION
SCHRECK'S SCRAPYARD
North Tonawanda, New York

DAILY AIR QUALITY MONITORING RESULTS
Date: 1-24-91

Calibration (PID) HNU Span — at 56 ppm PID Background .2 ppm Scott Alert LEL — % and — %
PCB Air Sample No. Upwind SSY-AS-9 /Downwind SSY-AS-10
Average Flow Rate 186.0 cc/m/ 186.0 cc/m Total Volume 111.6 l / 111.6 l
Temperature -8°C Wind Direction WEST Speed 17-26 MPH Barometric Pressure 30.00

AIR QUALITY READINGS

| Time | Location | Activity | PID (ppm) | O2 (%) | LEL (%) | Dust (mg/m3) | Wind Direction |
|---|---|---|---|---|---|---|---|
| 8:00 Am | PERIMETER | WARM UP | .2 | — | — | .00 | WEST |
| 8:50 Am | PERIMETER | WARM UP | .2 | — | — | .00 | WEST |
| 9:51 Am | PERIMETER | PUMP WATER | .2 | — | — | .00 | WEST |
| 10:52 Am | PERIMETER | PUMP WATER | .2 | — | — | .00 | WEST |
| 11:45 Am | BREATH. ZONE | EXCAVATION | .2 | — | — | .00 | WEST |
| 11:45 Am | PERIMETER | EXCAVATION | .2 | — | — | .00 | WEST |
| 1:05 pm | BREATH ZONE | EXCAVATION | .2 | — | — | .00 | WEST |
| 2:04 pm | PERIMETER | EXCAVATION | .2 | — | — | .00 | WEST |
| 2:58 pm | BREATH ZONE | EXCAVATION | .2 | — | — | .00 | WEST |
| 4:00 | ——— | WORK END | ——— | ——— | ——— | ——— | ——— |
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Integrated Work Day PCB Air Monitoring Results: Upwind ND* Downwind ND*
* Not detected at or above one microgram per cubic meter.

INDUSTRIAL WASTE AND SOIL REMOVAL ACTION
SCHRECK'S SCRAPYARD
North Tonawanda, New York

DAILY AIR QUALITY MONITORING RESULTS
Date: 1-25-91

Calibration (PID) HNU Span 8.9 at 56 ppm PID Background .2 ppm Scott Alert LEL 0 % and 25 %
PCB Air Sample No. Upwind SSY-AS-11 /Downwind SSY-AS-12
Average Flow Rate 1956 cc/m/ 194.8 cc/m Total Volume 111ℓ / 111ℓ
Temperature -13°C Wind Direction WEST Speed 8MPH Barometric Pressure 30.34

AIR QUALITY READINGS

| Time | Location | Activity | PID (ppm) | O2 (%) | LEL (%) | Dust (mg/m3) | Wind Direction |
|---|---|---|---|---|---|---|---|
| 8:25 AM | PERIMETER | EXCAVATION | .2 | 22.0 | 2 | — | WEST |
| 9:09 AM | PERIMETER | EXCAVATION | .2 | 21.3 | 2 | | WEST |
| 9:09 AM | BREATH. ZONE | EXCAVATION | .2 | 21.3 | 2 | | WEST |
| 10:00 AM | PERIMETER | EXCAVATION | .2 | 22.0 | 1 | .00 | WEST |
| 10:00 AM | BREATH. ZONE | EXCAVATION | .2 | 22.0 | 1 | .00 | WEST |
| 11:00 AM | PERIMETER | EXCAVATION | .2 | 19.8 | 2 | .00 | WEST |
| 11:51 AM | BREATH. ZONE | EXCAVATION | 1.0 | 21.0 | 3 | .00 | WEST |
| 2:16 PM | BREATH. ZONE | EXCAVATION | .2 | 22.2 | 2 | .00 | WEST |
| 2:56 PM | BREATH ZONE | EXCAVATION | .2 | 20.8 | 2 | .00 | WEST |
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Integrated Work Day PCB Air Monitoring Results: Upwind ND* Downwind ND*
* Not detected at or above one microgram per cubic meter.

INDUSTRIAL WASTE AND SOIL REMOVAL ACTION
SCHRECK'S SCRAPYARD
North Tonawanda, New York

DAILY AIR QUALITY MONITORING RESULTS
Date: 1-28-91

Calibration (PID) HNU Span 8.5 at 56 ppm PID Background .2 ppm Scott Alert LEL 0 % and 25 %
PCB Air Sample No. Upwind SSY-AS-14 /Downwind SSY-AS-13
Average Flow Rate 186.9 cc/m/ 178.9 cc/m Total Volume 107.3 l / 102.7 l
Temperature -4°C Wind Direction SW Speed 8 MPH Barometric Pressure 29.92

AIR QUALITY READINGS

| Time | Location | Activity | PID (ppm) | O2 (%) | LEL (%) | Dust (mg/m3) | Wind Direction |
|---|---|---|---|---|---|---|---|
| 8:12 AM | PERIMETER | REMOVE TARP | .2 | — | — | .00 | WEST |
| 8:55 AM | BREATH. ZONE | EXCAVATION | .2 | — | — | .00 | WEST |
| 8:55 AM | PERIMETER | EXCAVATION | .2 | — | — | .00 | WEST |
| 10:05 AM | PERIMETER | EXCAVATION | .2 | 22.1 | 3 | .00 | WEST |
| 11:00 AM | PERIMETER | EXCAVATION | .2 | — | — | .00 | WEST |
| 1:12 PM | PERIMETER | EXCAVATION | .2 | 21.7 | 3 | .00 | WEST |
| 1:54 PM | PERIMETER | EXCAVATION | .2 | — | — | .00 | WEST |
| 2:14 PM | BREATH. ZONE | EXCAVATION | .2 | — | — | — | WEST |
| 3:23 PM | PERIMETER | EXCAVATION | .2 | 21.7 | 3 | .00 | |
| 4:00 PM | ——— | END WORK | ——— | ——— | ——— | ——— | ——— |
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Integrated Work Day PCB Air Monitoring Results: Upwind ND* Downwind ND*
* Not detected at or above one microgram per cubic meter.

INDUSTRIAL WASTE AND SOIL REMOVAL ACTION
SCHRECK'S SCRAPYARD
North Tonawanda, New York

DAILY AIR QUALITY MONITORING RESULTS
Date: 1-29-91

Calibration (PID) HNU Span 8.5 at 56 ppm PID Background .2 ppm Scott Alert LEL 0 % and 25 %
PCB Air Sample No. Upwind SSY-AS-16 /Downwind SSY-AS-15
Average Flow Rate 193.6 cc/m/ 193.6 cc/m Total Volume 111.12 ℓ / 111.12 ℓ
Temperature ~3°C Wind Direction ENE Speed 7MPH Barometric Pressure 30.23

AIR QUALITY READINGS

| Time | Location | Activity | PID (ppm) | O2 (%) | LEL (%) | Dust (mg/m3) | Wind Direction |
|---|---|---|---|---|---|---|---|
| 8:12 AM | PERIMETER | EXCAVATION | .2 | 22.6 | 3 | .00 | ENE |
| 9:04 AM | PERIMETER | EXCAVATION | .2 | 22.6 | 2 | .00 | EAST |
| 9:04 AM | BREATH. ZONE | EXCAVATION | .2 | 22.6 | 2 | .00 | EAST |
| 9:21 AM | PERIMETER | EXCAVATION | .2 | 22.6 | 3 | .00 | EAST |
| 10:17 AM | PERIMETER | EXCAVATION | .2 | 21.7 | 2 | — | EAST |
| 10:17 AM | BREATH. ZONE | EXCAVATION | .2 | 21.7 | 2 | — | EAST |
| 10:54 AM | PERIMETER | EXCAVATION | .2 | 21.7 | 2 | .00 | EAST |
| 10:54 AM | BREATH. ZONE | EXCAVATION | .2 | 21.7 | 2 | .00 | EAST |
| 11:50 AM | BREATH. ZONE | EXCAVATION | .2 | 21.7 | 3 | .00 | EAST |
| 11:50 AM | PERIMETER | EXCAVATION | .2 | 21.7 | 3 | .00 | EAST |
| 1:14 PM | PERIMETER | EXCAVATION | .2 | 21.7 | 2 | .00 | EAST |
| 2:00 PM | PERIMETER | EXCAVATION | .2 | 21.8 | 1 | .00 | EAST |
| 2:00 PM | BREATH. ZONE | EXCAVATION | .2 | 21.8 | 1 | .00 | EAST |
| 3:00 PM | PERIMETER | EXCAVATION | .2 | 21.7 | 2 | .00 | NONE-EAST |
| 3:00 PM | BREATH. ZONE | EXCAVATION | .2 | 21.7 | 2 | .00 | NONE-EAST |
| 4:00 PM | ——— | END WORK | ——— | ——— | ——— | ——— | ——— |
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Integrated Work Day PCB Air Monitoring Results: Upwind ND* Downwind ND*
* Not detected at or above one microgram per cubic meter.

INDUSTRIAL WASTE AND SOIL REMOVAL ACTION
SCHRECK'S SCRAPYARD
North Tonawanda, New York

DAILY AIR QUALITY MONITORING RESULTS
Date: 1-30-91

Calibration (PID) HNU Span 85 at 56 ppm PID Background .2 ppm Scott Alert LEL 0 % and 25 %
PCB Air Sample No. Upwind SSY-AS-17 /Downwind SSY-AS-18
Average Flow Rate 187.8 cc/m/ 187.8 cc/m Total Volume 103 / 103
Temperature -4°C Wind Direction EAST Speed 9 MPH Barometric Pressure 29.30

AIR QUALITY READINGS

| Time | Location | Activity | PID (ppm) | O2 (%) | LEL (%) | Dust (mg/m3) | Wind Direction |
|---|---|---|---|---|---|---|---|
| 8:16 AM | PERIMETER | EXCAVATION | .2 | 22.2 | 2 | .00 | EAST |
| 9:16 AM | PERIMETER | EXCAVATION | .2 | 21.6 | 2 | .00 | EAST |
| 9:16 AM | BREATH.ZONE | EXCAVATION | .2 | 21.6 | 2 | .00 | EAST |
| 10:00AM | PERIMETER | EXCAVATION | .2 | 21.6 | 2 | .00 | EAST |
| 10:55 AM | BREATH ZONE | PUMP WATER | .2 | 21.7 | — | .00 | EAST |
| 11:55 AM | PERIMETER | EXCAVATION | .5 | 21.8 | — | .00 | EAST |
| 2:00 pm | PERIMETER | EXCAVATION | .2 | 21.7 | — | .00 | EAST |
| 2:17 pm | BREATH.ZONE | EXCAVATION | .5 | 21.1 | 4 | — | EAST |
| 3:20 pm | PERIMETER | EXCAVATION | .2 | 21.0 | 3 | .00 | EAST |
| 3:47 pm | | END WORK | | | | | |
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Integrated Work Day PCB Air Monitoring Results: Upwind ND* Downwind ND*
* Not detected at or above one microgram per cubic meter.

INDUSTRIAL WASTE AND SOIL REMOVAL ACTION
SCHRECK'S SCRAPYARD
North Tonawanda, New York

DAILY AIR QUALITY MONITORING RESULTS
Date: 1-31-91

Calibration (PID) HNU Span 8.5 at 56 ppm PID Background .2 ppm Scott Alert LEL 0 % and 25 %
PCB Air Sample No. Upwind SSY-AS-19 /Downwind SSY-AS-20
Average Flow Rate 193.4 cc/m/ 193.4 cc/m Total Volume 110.43ℓ / 110.43ℓ
Temperature -6°C Wind Direction WEST Speed 17 MPH Barometric Pressure 29.86

AIR QUALITY READINGS

| Time | Location | Activity | PID (ppm) | O2 (%) | LEL (%) | Dust (mg/m3) | Wind Direction |
|---|---|---|---|---|---|---|---|
| 8:00 AM | | NO WORK | | | | | |
| 9:37 AM | BREATH. ZONE | DECON. EQU. | .3 | — | — | .00 | — |
| 10:30 AM | | NO WORK | | | | | |
| 11:00 AM | PERIMETER | NO WORK | .2 | — | — | .06 | WEST |
| 1:25 PM | PERIMETER | EXCAVATION | .2 | 21.1 | 3 | — | WEST |
| 2:13 PM | PERIMETER | EXCAVATION | .2 | 21.0 | 4 | .00 | WEST |
| 3:26 PM | PERIMETER | EXCAVATION | .2 | 21.0 | 4 | .00 | WEST |
| 3:50 PM | ——— | WORK END | ——— | ——— | ——— | ——— | ——— |
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Integrated Work Day PCB Air Monitoring Results: Upwind ND* Downwind ND*
* Not detected at or above one microgram per cubic meter.

INDUSTRIAL WASTE AND SOIL REMOVAL ACTION
SCHRECK'S SCRAPYARD
North Tonawanda, New York

DAILY AIR QUALITY MONITORING RESULTS
Date: 2-1-91

Calibration (PID) HNU Span 8.4 at 56 ppm PID Background .2 ppm Scott Alert LEL 0 % and 25 %
PCB Air Sample No. Upwind SSY-AS-21 /Downwind SSY-AS-22
Average Flow Rate 199.09 cc/m 199.09 cc/m Total Volume 107 l 107 l
Temperature -7°C Wind Direction WEST-EAST Speed 15 MPH Barometric Pressure 30.55

AIR QUALITY READINGS

| Time | Location | Activity | PID (ppm) | O2 (%) | LEL (%) | Dust (mg/m3) | Wind Direction |
|---|---|---|---|---|---|---|---|
| 8:19 AM | BREATH. ZONE | UNCOVER PIT | .2 | 22.8 | 2 | .00 | WEST |
| 9:21 AM | PERIMETER | EXCAVATION | .2 | 21.1 | 2 | .00 | EAST |
| 10:19 AM | PERIMETER | EXCAVATION | .2 | 22.1 | 2 | .00 | EAST |
| 1:15 PM | PERIMETER | EXCAVATION | .2 | 22.0 | 2 | .00 | EAST |
| 2:57 PM | PERIMETER | EXCAVATION | .2 | 22.0 | 2 | .06 | EAST |
| 3:45 PM | ——— | END WORK | ——— | ——— | ——— | ——— | ——— |
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Integrated Work Day PCB Air Monitoring Results: Upwind ND* Downwind ND*
* Not detected at or above one microgram per cubic meter.

INDUSTRIAL WASTE AND SOIL REMOVAL ACTION
SCHRECK'S SCRAPYARD
North Tonawanda, New York

DAILY AIR QUALITY MONITORING RESULTS
Date: 2-4-91

Calibration (PID) HNU Span — at 56 ppm PID Background .2 ppm Scott Alert LEL — % and — %
PCB Air Sample No. Upwind SSY-AS-23 /Downwind SSY-AS-24
Average Flow Rate 183.8 cc/m/ 183.8 cc/m Total Volume 102.1 Q / 102.1
Temperature 7°C Wind Direction SOUTH WEST Speed 18 MPH Barometric Pressure 30.24

AIR QUALITY READINGS

| Time | Location | Activity | PID (ppm) | O2 (%) | LEL (%) | Dust (mg/m3) | Wind Direction |
|---|---|---|---|---|---|---|---|
| 8:33 AM | BREATH ZONE | SET UP | .2 | 22.0 | 3 | | SW |
| 8:33 AM | PERIMETER | SET UP | .2 | 22.0 | 3 | .00 | SW |
| 8:56 AM | PERIMETER | ROAD CONST. | .2 | 22.0 | 2 | .00 | SW |
| 10:07 AM | PERIMETER | ROAD CONST. | .2 | 21.9 | 3 | .00 | SW |
| 11:30 AM | | NO WORK | | | | | |
| 1:30 PM | PERIMETER | SAND BLAST. | .2 | 22.0 | 2 | .00 | WEST |
| 2:13 PM | BREATH ZONE | SAND BLAST. | .5 | 22.0 | 3 | | WEST |
| 2:13 PM | PERIMETER | SAND BLAST. | .2 | 22.0 | 3 | .00 | WEST |
| 3:16 PM | PERIMETER | SAND BLAST | .2 | 22.0 | 3 | .00 | WEST |
| 4:00 PM | — | END WORK | — | — | — | — | — |
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Integrated Work Day PCB Air Monitoring Results: Upwind ND* Downwind ND*
* Not detected at or above one microgram per cubic meter.

INDUSTRIAL WASTE AND SOIL REMOVAL ACTION
SCHRECK'S SCRAPYARD
North Tonawanda, New York

DAILY AIR QUALITY MONITORING RESULTS
Date: 2-5-91

Calibration (PID) HNU Span 9.8 at 56 ppm PID Background .2 ppm Scott Alert LEL 0 % and 25 %
PCB Air Sample No. Upwind SSY-AS-25 /Downwind SSY-AS-26
Average Flow Rate 186.0 cc/m 186.0 cc/m Total Volume 101.372 / 101.372
Temperature 6°C Wind Direction WSW Speed 16 MPH Barometric Pressure 30.16

AIR QUALITY READINGS

| Time | Location | Activity | PID (ppm) | O2 (%) | LEL (%) | Dust (mg/m3) | Wind Direction |
|---|---|---|---|---|---|---|---|
| 8:13 AM | PERIMETER | SAND BLAST. | .2 | 21.8 | 2 | — | WEST |
| 10:13 AM | BREATH ZONE | SAND BLAST. | .3 | 22.1 | 3 | .00 | WEST |
| 10:13 AM | PERIMETER | SAND BLAST. | .3 | 22.1 | 3 | .00 | WEST |
| 1:20 PM | PERIMETER | SAND BLAST. | .3 | 21.4 | 4 | .00 | WEST |
| 2:02 PM | BREATH. ZONE | SAND BLAST. | .6 | — | — | .00 | WEST |
| 3:10 PM | PERIMETER | SAND BLAST | .3 | 21.4 | 4 | .00 | WEST |
| 4:00 PM | — | END WORK | — | — | — | — | — |
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Integrated Work Day PCB Air Monitoring Results: Upwind ND* Downwind ND*
* Not detected at or above one microgram per cubic meter.

INDUSTRIAL WASTE AND SOIL REMOVAL ACTION
SCHRECK'S SCRAPYARD
North Tonawanda, New York

DAILY AIR QUALITY MONITORING RESULTS
Date: 2-6-91

Calibration (PID) HNU Span 8.4 at 56 ppm PID Background .2 ppm Scott Alert LEL 0 % and 25 %
PCB Air Sample No. Upwind SSY-AS-28 /Downwind SSY-AS-27
Average Flow Rate 190.8 cc/m/ 190.8 cc/m Total Volume 118l / 118l
Temperature 2°C Wind Direction NONE Speed — Barometric Pressure 3033

AIR QUALITY READINGS

| Time | Location | Activity | PID (ppm) | O2 (%) | LEL (%) | Dust (mg/m3) | Wind Direction |
|---|---|---|---|---|---|---|---|
| 8:07am | PERIMETER | CLEAN PIT. | .2 | 22.2 | 3 | — | NONE |
| 9:30 am | PERIMETER | CLEAN PIT | .2 | 22.0 | 3 | .00 | NONE |
| 9:30 am | BREATH. ZONE | CLEAN PIT | .2 | 22.0 | 3 | .00 | NONE |
| 10:25 am | PERIMETER | SAND BLAST. | .5 | 21.4 | 3 | .00 | EAST |
| 10:25 AM | BREATH. ZONE | SAND BLAST. | 1.0 | 21.4 | 3 | — | EAST |
| 11:49 AM | PERIMETER | SAND BLAST. | .2 | 21.7 | 5 | .00 | EAST |
| 1:11 m | BREATH. ZONE | SAND BLAST. | .2 | 21.7 | 5 | .00 | EAST |
| 2:15 pm | PERIMETER | SAND BLAST. | .2 | 21.7 | 5 | .00 | EAST |
| 3:20 pm | PERIMETER | SAND BLAST | .2 | 21.7 | 4 | .00 | EAST |
| 4:52 pm | BREATH ZONE | SAND BLAST | .3 | — | 3 | — | EAST |
| 5:11 pm | ——— | END WORK | ——— | ——— | ——— | ——— | ——— |
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Integrated Work Day PCB Air Monitoring Results: Upwind _____ Downwind _____
* Not detected at or above one microgram per cubic meter.

INDUSTRIAL WASTE AND SOIL REMOVAL ACTION
SCHRECK'S SCRAPYARD
North Tonawanda, New York

DAILY AIR QUALITY MONITORING RESULTS
Date: 2-7-91

Calibration (PID) HNU Span 8.9 at 56 ppm PID Background .2 ppm Scott Alert LEL 0 % and 25 %
PCB Air Sample No. Upwind SSY-AS-29 /Downwind SSY-AS-30
Average Flow Rate 190 cc/m/ 190 cc/m Total Volume 106.78 l/ 106.78 l
Temperature 2°C Wind Direction NNE Speed 6 MPH Barometric Pressure 30.11

AIR QUALITY READINGS

| Time | Location | Activity | PID (ppm) | O2 (%) | LEL (%) | Dust (mg/m3) | Wind Direction |
|---|---|---|---|---|---|---|---|
| 8:25 am | PERIMETER | DECON. EQU. | .2 | 21.1 | 1 | .00 | NNE |
| 10:00 am | PERIMETER | DECON. EQU | .2 | 21.2 | 3 | .00 | NORTH |
| 11:40 am | PERIMETER | DECON. EQU | .6 | 21.7 | 3 | .00 | NORTH |
| 1:32 pm | PERIMETER | CLEAN TOP WALL | .3 | 21.7 | 3 | .00 | NORTH |
| 2:42 pm | BREATH ZONE | WASH PIT | .3 | — | — | .00 | NORTH |
| 2:42 pm | PERIMETER | WASH PIT | .3 | — | — | .00 | NORTH |
| 4:01 pm | | END WORK | | | | | |
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Integrated Work Day PCB Air Monitoring Results: Upwind ND* Downwind ND*
* Not detected at or above one microgram per cubic meter.

INDUSTRIAL WASTE AND SOIL REMOVAL ACTION
SCHRECK'S SCRAPYARD
North Tonawanda, New York

DAILY AIR QUALITY MONITORING RESULTS
Date: 2-8-91

Calibration (PID) HNU Span 8.9 at 56 ppm PID Background .2 ppm Scott Alert LEL 0 % and 25 %
PCB Air Sample No. Upwind SSY-AS-31 /Downwind SSY-AS-32
Average Flow Rate 191.5 cc/m 191.5 cc/m Total Volume 103.78ℓ / 103.78ℓ
Temperature 1°C Wind Direction WSW Speed 13 MPH Barometric Pressure 30.14

AIR QUALITY READINGS

| Time | Location | Activity | PID (ppm) | O2 (%) | LEL (%) | Dust (mg/m3) | Wind Direction |
|---|---|---|---|---|---|---|---|
| 8:22AM | PERIMETER | PUMP WATER | .2 | 21.7 | 2 | .00 | WEST |
| 9:17AM | PERIMETER | SAND BLAST. | .3 | 22.0 | 2 | .00 | WEST |
| 9:17AM | BREATH. ZONE | SAND BLAST. | .3 | 22.0 | 2 | .00 | WEST |
| 11:10 AM | PERIMETER | CLEAN UP | .3 | 21.4 | 3 | .00 | WEST |
| 1:13 AM | PERIMETER | WORK IN PIT | .3 | 22.0 | 3 | .00 | WEST |
| 3:05 | PERIMETER | WORK IN PIT | .2 | 22.0 | 3 | .00 | WEST |
| 3:38 | ——— | END WORK | ——— | ——— | ——— | ——— | ——— |
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Integrated Work Day PCB Air Monitoring Results: Upwind ND* Downwind ND*
* Not detected at or above one microgram per cubic meter.

INDUSTRIAL WASTE AND SOIL REMOVAL ACTION
SCHRECK'S SCRAPYARD
North Tonawanda, New York

DAILY AIR QUALITY MONITORING RESULTS
Date: 2-11-91

Calibration (PID) HNU Span 8.9 at 56 ppm PID Background .2 ppm Scott Alert LEL 0 % and 25 %
PCB Air Sample No. Upwind SSY-AS-34 /Downwind SSY-AS-33
Average Flow Rate 196.5 cc/m/ 196.5 cc/m Total Volume 106.66l / 108.86l
Temperature -7°C Wind Direction WEST Speed 17 MPH Barometric Pressure 29.44

AIR QUALITY READINGS

| Time | Location | Activity | PID (ppm) | O2 (%) | LEL (%) | Dust (mg/m3) | Wind Direction |
|---|---|---|---|---|---|---|---|
| 8:00 AM | PERIMETER | NONE | .2 | 22.1 | 3 | — | WEST |
| 9:00AM | PERIMETER | NONE | — | — | — | — | WEST |
| 10:00 AM | PERIMETER | NONE | — | — | — | — | WEST |
| 11:00 AM | PERIMETER | DECON. EQU. | .3 | 22.1 | 1 | .00 | WEST |
| 11:00AM | BREATH. ZONE | DECON. EQU. | .3 | 22.1 | 1 | .00 | WEST |
| 1110 pm | BREATH. ZONE | DECON. EQU | .2 | — | 1 | .00 | WEST |
| 2:30pm | BREATH. ZONE | DECON. EQU | .2 | 21.7 | 2 | .00 | WEST |
| 3:45 pm | ——— | ENDWORK | ——— | ——— | ——— | ——— | ——— |
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Integrated Work Day PCB Air Monitoring Results: Upwind ND* Downwind ND*
* Not detected at or above one microgram per cubic meter.

INDUSTRIAL WASTE AND SOIL REMOVAL ACTION
SCHRECK'S SCRAPYARD
North Tonawanda, New York

DAILY AIR QUALITY MONITORING RESULTS
Date: 2-12-91

Calibration (PID) HNU Span _____ at 56 ppm PID Background .3 ppm Scott Alert LEL _____% and _____%
PCB Air Sample No. Upwind _____ /Downwind _____
Average Flow Rate _____ cc/m/ _____ cc/m Total Volume _____ / _____
Temperature -10°C Wind Direction SSE Speed 6 Barometric Pressure —

AIR QUALITY READINGS

| Time | Location | Activity | PID (ppm) | O2 (%) | LEL (%) | Dust (mg/m3) | Wind Direction |
|---|---|---|---|---|---|---|---|
| 8:11 AM | BREATH ZONE | DECON EQU. | .3 | 22.1 | 2 | .00 | SOUTH |
| 10:30 AM | BREATH ZONE | DECON EQU | .3 | 21.7 | 2 | .00 | WEST |
| 11:20 AM | BREATH ZONE | DECON EQU. | .3 | 21.7 | 3 | .00 | WEST |
| 1:20 PM | BREATH ZONE | DECON EQU. | .3 | 22.3 | 3 | .00 | WEST |
| 3:00 PM | | END WORK | | | | | |
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Integrated Work Day PCB Air Monitoring Results: Upwind ____ Downwind ____
* Not detected at or above one microgram per cubic meter.

INDUSTRIAL WASTE AND SOIL REMOVAL ACTION
SCHRECK'S SCRAPYARD
North Tonawanda, New York

DAILY AIR QUALITY MONITORING RESULTS
Date: 2-19-91

Calibration (PID) HNU Span 9.3 at 56 ppm PID Background .2 ppm Scott Alert LEL 0 % and 25 %
PCB Air Sample No. Upwind _____ /Downwind _____
Average Flow Rate _____cc/m/_____cc/m Total Volume _____ / _____
Temperature 40°F Wind Direction WEST Speed 5-15MPH Barometric Pressure —

AIR QUALITY READINGS

| Time | Location | Activity | PID (ppm) | O2 (%) | LEL (%) | Dust (mg/m3) | Wind Direction |
|---|---|---|---|---|---|---|---|
| 10:00am | BREATH ZONE | MASONRY | .1 | 22.1 | 1 | — | WEST |
| 10:30am | BREATH ZONE | MASONRY | .1 | 22.1 | 1 | — | WEST |
| 11:00 AM | BREATH ZONE | MASONRY | .2 | 22.1 | 2 | — | WEST |
| 11:45 AM | BREATH ZONE | MASONRY | .2 | 21.8 | 2 | — | — |
| 1:00 pm | BREATH ZONE | MASONRY | .2 | 21.7 | 2 | — | — |
| 2:00pm | BREATH ZONE | MASONRY | .2 | 21.7 | 2 | — | WEST |
| 3:00pm | BREATH ZONE | MASONRY | .2 | 21.7 | 2 | — | — |
| 4:00 pm | | END WORK | | | | | |
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Integrated Work Day PCB Air Monitoring Results: Upwind _____ Downwind _____
* Not detected at or above one microgram per cubic meter.

INDUSTRIAL WASTE AND SOIL REMOVAL ACTION
SCHRECK'S SCRAPYARD
North Tonawanda, New York

DAILY AIR QUALITY MONITORING RESULTS
Date: 2-20-91

Calibration (PID) HNU Span 9.3 at 56 ppm PID Background .2 ppm Scott Alert LEL 0 % and 25 %
PCB Air Sample No. Upwind _____ /Downwind _____
Average Flow Rate _____ cc/m/ _____ cc/m Total Volume _____ / _____
Temperature 30°F Wind Direction WEST Speed +5MPH Barometric Pressure —

AIR QUALITY READINGS

| Time | Location | Activity | PID (ppm) | O2 (%) | LEL (%) | Dust (mg/m3) | Wind Direction |
|---|---|---|---|---|---|---|---|
| 9:00Am | BREATH ZONE | MASONRY | .2 | 22.1 | 0 | .00 | WEST |
| 10:00 AM | BREATH ZONE | MASONRY | .2 | 22.1 | 1 | .00 | WEST |
| 11:00 Am | BREATH ZONE | MASONRY | .2 | 22.6 | 0 | .00 | WEST |
| 12:30 pm | BREATH ZONE | MASONRY | .2 | 21.7 | 0 | .00 | WEST |
| 1:45 pm | BREATH ZONE | MASONRY | .2 | 21.7 | 0 | .00 | WEST |
| 3:15 pm | BREATH ZONE | MASONRY | .2 | 21.7 | 2 | .00 | WEST |
| 4:15 pm | | END WORK | | | | | |
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Integrated Work Day PCB Air Monitoring Results: Upwind — Downwind —
* Not detected at or above one microgram per cubic meter.

INDUSTRIAL WASTE AND SOIL REMOVAL ACTION
SCHRECK'S SCRAPYARD
North Tonawanda, New York

DAILY AIR QUALITY MONITORING RESULTS
Date: 2-26-91

Calibration (PID) HNU Span 8.9 at 56 ppm PID Background .2 ppm Scott Alert LEL 0 % and 25 %
PCB Air Sample No. Upwind _____ /Downwind _____
Average Flow Rate _____ cc/m/ _____ cc/m Total Volume _____ / _____
Temperature 29°F Wind Direction WEST Speed 10 MPH Barometric Pressure —

AIR QUALITY READINGS

| Time | Location | Activity | PID (ppm) | O2 (%) | LEL (%) | Dust (mg/m3) | Wind Direction |
|---|---|---|---|---|---|---|---|
| 8:15 AM | BREATH ZONE | CARPENTRY | .2 | 22.0 | 0 | — | WEST |
| 9:43 AM | BREATH ZONE | CARPENTRY | .2 | 21.7 | 0 | — | WEST |
| 10:54 AM | BREATH ZONE | CARPENTRY | .2 | 22.1 | 0 | — | WEST |
| 1:00 PM | BREATH ZONE | CARPENTRY | .2 | 22.3 | 0 | — | WEST |
| 2:30 PM | BREATH ZONE | CARPENTRY | .2 | 21.7 | 0 | — | WEST |
| 4:00 PM | BREATH ZONE | CARPENTRY | .2 | 21.2 | 0 | — | WEST |
| 4:30 PM | _____ | END WORK | _____ | _____ | _____ | _____ | _____ |
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Integrated Work Day PCB Air Monitoring Results: Upwind _____ Downwind _____
* Not detected at or above one microgram per cubic meter.

INDUSTRIAL WASTE AND SOIL REMOVAL ACTION
SCHRECK'S SCRAPYARD
North Tonawanda, New York

DAILY AIR QUALITY MONITORING RESULTS
Date: 2-27-91

Calibration (PID) HNU Span — at 56 ppm PID Background .2 ppm Scott Alert LEL —% and —%
PCB Air Sample No. Upwind ——— /Downwind ———
Average Flow Rate ——— cc/m/ ——— cc/m Total Volume ——— / ———
Temperature 20°F Wind Direction WEST Speed 5 MPH Barometric Pressure —

AIR QUALITY READINGS

| Time | Location | Activity | PID (ppm) | O2 (%) | LEL (%) | Dust (mg/m3) | Wind Direction |
|---|---|---|---|---|---|---|---|
| 8:33Am | BREATH ZONE | CARPENTRY | .2 | 22.1 | 0 | — | WEST |
| 10:00 AM | BREATH ZONE | CARPENTRY | .2 | 21.7 | 2 | — | WEST |
| 11:30Am | BREATH ZONE | CARPENTRY | .2 | 21.7 | 2 | — | WEST |
| 3:00Pm | BREATH ZONE | CARPENTRY | .2 | 21.2 | 0 | — | WEST |
| 4:00pm | BREATH ZONE | CARPENTRY | .2 | 21.7 | 0 | — | WEST |
| 4:30pm | | END WORK | | | | | |
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Integrated Work Day PCB Air Monitoring Results: Upwind ——— Downwind ———
* Not detected at or above one microgram per cubic meter.

INDUSTRIAL WASTE AND SOIL REMOVAL ACTION
SCHRECK'S SCRAPYARD
North Tonawanda, New York

DAILY AIR QUALITY MONITORING RESULTS
Date: 2-28-91

Calibration (PID) HNU Span — at 56 ppm PID Background .2 ppm Scott Alert LEL — % and — %
PCB Air Sample No. Upwind — /Downwind —
Average Flow Rate — cc/m/ — cc/m Total Volume — / —
Temperature 30°F Wind Direction WEST Speed 5 MPH Barometric Pressure —

AIR QUALITY READINGS

| Time | Location | Activity | PID (ppm) | O2 (%) | LEL (%) | Dust (mg/m3) | Wind Direction |
|---|---|---|---|---|---|---|---|
| 8:13 AM | PERIMETER | CARPENTRY | .2 | 22.3 | 0 | — | WEST |
| 9:30 AM | PERIMETER | CARPENTRY | .2 | 21.7 | 0 | — | WEST |
| 11:00 AM | PERIMETER | CARPENTRY | .2 | — | 0 | — | WEST |
| 12:00 | — | END WORK | — | — | — | — | — |
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Integrated Work Day PCB Air Monitoring Results: Upwind — Downwind —
* Not detected at or above one microgram per cubic meter.

INDUSTRIAL WASTE AND SOIL REMOVAL ACTION
SCHRECK'S SCRAPYARD
North Tonawanda, New York

DAILY AIR QUALITY MONITORING RESULTS
Date: 3-1-90

Calibration (PID) HNU Span 8.7 at 56 ppm PID Background .2 ppm Scott Alert LEL 0 % and 25 %
PCB Air Sample No. Upwind _____ /Downwind _____
Average Flow Rate _____ cc/m/ _____ cc/m Total Volume _____ / _____
Temperature 40°F Wind Direction WEST Speed 5 MPH Barometric Pressure —

AIR QUALITY READINGS

| Time | Location | Activity | PID (ppm) | O2 (%) | LEL (%) | Dust (mg/m3) | Wind Direction |
|---|---|---|---|---|---|---|---|
| 8:10 AM | BREATH ZONE | CARPENTRY | .2 | 22.0 | 0 | — | WEST |
| 10:00 AM | BREATH ZONE | CARPENTRY | .2 | 21.7 | 0 | — | WEST |
| 11:00 AM | BREATH ZONE | CARPENTRY | .2 | 21.7 | 0 | — | WEST |
| 2:00 PM | BREATH ZONE | CARPENTRY | .2 | 22.3 | 0 | — | WEST |
| 4:00 PM | — | END WORK | — | — | — | — | — |
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Integrated Work Day PCB Air Monitoring Results: Upwind _____ Downwind _____
* Not detected at or above one microgram per cubic meter.

INDUSTRIAL WASTE AND SOIL REMOVAL ACTION
SCHRECK'S SCRAPYARD
North Tonawanda, New York

DAILY AIR QUALITY MONITORING RESULTS
Date: 3-4-91

Calibration (PID) HNU Span — at 56 ppm PID Background .2 ppm Scott Alert LEL — % and — %
PCB Air Sample No. Upwind ——— /Downwind ———
Average Flow Rate ——— cc/m/ ——— cc/m Total Volume ——— / ———
Temperature 38°F Wind Direction WEST Speed 5-10 MPH Barometric Pressure ———

AIR QUALITY READINGS

| Time | Location | Activity | PID (ppm) | O2 (%) | LEL (%) | Dust (mg/m3) | Wind Direction |
|---|---|---|---|---|---|---|---|
| 8:00 AM | | NONE | | | | | |
| 12:00 | IN PIT | PUMPING | 1.0 | 20.7 | 1 | .00 | WEST |
| 2:00 | | NONE | | | | | |
| 4:00 | ——— | END WORK | ——— | ——— | ——— | ——— | ——— |
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Integrated Work Day PCB Air Monitoring Results: Upwind ——— Downwind ———
* Not detected at or above one microgram per cubic meter.

INDUSTRIAL WASTE AND SOIL REMOVAL ACTION
SCHRECK'S SCRAPYARD
North Tonawanda, New York

DAILY AIR QUALITY MONITORING RESULTS
Date: 3-5-91

Calibration (PID) HNU Span — at 56 ppm PID Background .2 ppm Scott Alert LEL — % and — %
PCB Air Sample No. Upwind ——— /Downwind ———
Average Flow Rate ——— cc/m/ ——— cc/m Total Volume ——— / ———
Temperature 32°F Wind Direction WEST Speed 5-10 MPH Barometric Pressure ———

AIR QUALITY READINGS

| Time | Location | Activity | PID (ppm) | O2 (%) | LEL (%) | Dust (mg/m3) | Wind Direction |
|---|---|---|---|---|---|---|---|
| 9:30 AM | BREATH ZONE | CARPENTRY | .1 | 22.0 | 0 | — | WEST |
| 10:00 AM | | NONE | | | | | |
| 3:00 PM | IN PIT | PUMPING | .8 | 21.7 | 0 | — | WEST |
| 4:10 PM | IN PIT | PUMPING | 2.0 | 21.5 | 28 | — | WEST |
| 5:30 PM | ——— | OFF SITE | ——— | ——— | ——— | ——— | ——— |
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Integrated Work Day PCB Air Monitoring Results: Upwind ——— Downwind ———
* Not detected at or above one microgram per cubic meter.

INDUSTRIAL WASTE AND SOIL REMOVAL ACTION
SCHRECK'S SCRAPYARD
North Tonawanda, New York

DAILY AIR QUALITY MONITORING RESULTS
Date: 3-6-91

Calibration (PID) HNU Span ____ at 56 ppm PID Background ____ ppm Scott Alert LEL ____% and ____%
PCB Air Sample No. Upwind _____ /Downwind _____
Average Flow Rate _____ cc/m/ _____ cc/m Total Volume _____ / _____
Temperature 32°F Wind Direction EAST Speed 10 MPH Barometric Pressure —

AIR QUALITY READINGS

| Time | Location | Activity | PID (ppm) | O2 (%) | LEL (%) | Dust (mg/m3) | Wind Direction |
|---|---|---|---|---|---|---|---|
| 8:50 AM | PERIMETER | PLOW SNOW | .2 | 22.1 | 0 | .00 | EAST |
| 10:26 AM | SOIL | GRADE SOIL | .3 | — | — | — | — |
| 11:30 AM | IN PIT | DEC INSP. | .2 | 21 | 0 | — | — |
| 1:30 PM | SOIL | GRADE SOIL | .3 | — | — | — | — |
| 3:30 PM | _____ | OFF SITE | _____ | _____ | _____ | _____ | _____ |
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Integrated Work Day PCB Air Monitoring Results: Upwind _____ Downwind _____
* Not detected at or above one microgram per cubic meter.

SUMMARY OF AIRBORNE PCB MONITORING
SCHRECK'S SCRAPYARD

| SAMPLE IDENTIFICATION | SAMPLE DATE | AROCLOR 1242 | AROLCOR 1254 |
|---|---|---|---|
| 228CI-S-121090F | 12/10/90 | ND (1) | ND (1) |
| 228C2-S-121090F | 12/10/90 | ND (1) | ND (1) |
| 228C3-S-121090F | 12/10/90 | ND (1) | ND (1) |
| 228C4-S-121090F | 12/10/90 | ND (1) | ND (1) |
| 228C5-S-121090F | 12/10/90 | ND (1) | ND (1) |
| 228C-S-121090FX | 12/10/90 | ND (1) | ND (1) |
| | | | |
| SSY-AS-1 | 1/18/91 | ND (1) | ND (1) |
| SSY-AS-2 | 1/18/91 | ND (1) | ND (1) |
| SSY-AS-3 | 1/21/91 | ND (1) | ND (1) |
| SSY-AS-4 | 1/21/91 | ND (1) | ND (1) |
| SSY-AS-5 | 1/22/91 | ND (1) | ND (1) |
| SSY-AS-6 | 1/22/91 | ND (1) | ND (1) |
| SSY-AS-7 | 1/23/91 | ND (1) | ND (1) |
| SSY-AS-8 | 1/23/91 | ND (1) | ND (1) |
| SSY-AS-9 | 1/24/91 | ND (1) | ND (1) |
| SSY-AS-10 | 1/24/91 | ND (1) | ND (1) |
| SSY-AS-11 | 1/25/91 | ND (1) | ND (1) |
| SSY-AS-12 | 1/25/91 | ND (1) | ND (1) |
| SSY-AS-13 | 1/28/91 | ND (1) | ND (1) |
| SSY-AS-14 | 1/28/91 | ND (1) | ND (1) |
| SSY-AS-15 | 1/29/91 | ND (1) | ND (1) |
| SSY-AS-16 | 1/29/91 | ND (1) | ND (1) |
| SSY-AS-17 | 1/30/91 | ND (1) | ND (1) |
| SSY-AS-18 | 1/30/91 | ND (1) | ND (1) |
| SSY-AS-19 | 1/31/91 | ND (1) | ND (1) |
| SSY-AS-20 | 1/31/91 | ND (1) | ND (1) |
| SSY-AS-B2 | 1/31/91 | ND (1) | ND (1) |
| SSY-AS-21 | 2/1/91 | ND (1) | ND (1) |
| SSY-AS-22 | 2/1/91 | ND (1) | ND (1) |
| SSY-AS-23 | 2/4/91 | ND (1) | ND (1) |
| SSY-AS-24 | 2/4/91 | ND (1) | ND (1) |
| SSY-AS-25 | 2/5/91 | ND (1) | ND (1) |
| SSY-AS-26 | 2/5/91 | ND (1) | ND (1) |
| SSY-AS-27 | 2/6/91 | ND (1) | ND (1) |
| SSY-AS-28 | 2/6/91 | ND (1) | ND (1) |
| SSY-AS-29 | 2/7/91 | ND (1) | ND (1) |
| SSY-AS-30 | 2/7/91 | ND (1) | ND (1) |
| SSY-AS-B3 | 2/7/91 | ND (1) | ND (1) |
| SSY-AS-31 | 2/8/91 | ND (1) | ND (1) |
| SSY-AS-32 | 2/8/91 | ND (1) | ND (1) |
| SSY-AS-33 | 2/11/91 | ND (1) | ND (1) |
| SSY-AS-34 | 2/11/91 | ND (1) | ND (1) |
| SSY-AS-35 | 2/12/91 | ND (1) | ND (1) |
| SSY-AS-36 | 2/12/91 | ND (1) | ND (1) |

(1) = Not detected at or above 1 ug/m3

INDUSTRIAL WASTE AND SOIL REMOVAL ACTION
SCHRECK'S SCRAPYARD
North Tonawanda, New York

DAILY AIR QUALITY MONITORING RESULTS
Date: 2-21-91

Calibration (PID) HNU Span 9.3 at 56 ppm PID Background .2 ppm Scott Alert LEL 0 % and 25 %
PCB Air Sample No. Upwind _____ /Downwind _____
Average Flow Rate _____ cc/m/_____ cc/m Total Volume _____ / _____
Temperature 27°F Wind Direction WEST Speed +5MPH Barometric Pressure —

AIR QUALITY READINGS

| Time | Location | Activity | PID (ppm) | O2 (%) | LEL (%) | Dust (mg/m3) | Wind Direction |
|---|---|---|---|---|---|---|---|
| 9:00AM | BREATH. ZONE. | MASONRY | .2 | 22.5 | 0 | .00 | WEST |
| 10:06 AM | BREATH. ZONE. | MASONRY | .2 | 21.7 | 0 | .00 | WEST |
| 11:00 AM | BREATH. ZONE. | MASONRY | .2 | 21.7 | 0 | .00 | WEST |
| 2:00 PM | BREATH. ZONE. | MASONRY | .2 | 21.9 | 0 | .00 | WEST |
| 3.00 PM | BREATH. ZONE. | MASONRY | .2 | 21.7 | 0 | — | WEST |
| 4:00PM | | ENDWORK | | | | | |
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Integrated Work Day PCB Air Monitoring Results: Upwind _____ Downwind _____
* Not detected at or above one microgram per cubic meter.

INDUSTRIAL WASTE AND SOIL REMOVAL ACTION
SCHRECK'S SCRAPYARD
North Tonawanda, New York

DAILY AIR QUALITY MONITORING RESULTS
Date: 2-22-91

Calibration (PID) HNU Span 8.6 at 56 ppm PID Background .2 ppm Scott Alert LEL 0 % and 25 %
PCB Air Sample No. Upwind _____ /Downwind _____
Average Flow Rate _____ cc/m/ _____ cc/m Total Volume _____ / _____
Temperature 20-25°F Wind Direction WEST Speed 10MPH Barometric Pressure —

AIR QUALITY READINGS

| Time | Location | Activity | PID (ppm) | O2 (%) | LEL (%) | Dust (mg/m3) | Wind Direction |
|---|---|---|---|---|---|---|---|
| 8:25 AM | BREATH ZONE | MASONRY | .2 | 21.2 | 0 | — | WEST |
| 9:24 AM | BREATH ZONE | MASONRY | .2 | 22.3 | 0 | — | WEST |
| 11:00 AM | BREATH ZONE | MASONRY | .2 | 21.7 | 1 | — | WEST |
| 12:00 pm | BREATH ZONE | MASONRY | .2 | 21.3 | 0 | — | WEST |
| 1:30 pm | BREATH ZONE | MASONRY | .2 | 21.3 | 0 | — | WEST |
| 3:00 pm | BREATH ZONE | MASONRY | .2 | 21.7 | 0 | — | — |
| 4:00 pm | | END WORK | | | | | |
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Integrated Work Day PCB Air Monitoring Results: Upwind _____ Downwind _____
* Not detected at or above one microgram per cubic meter.

INDUSTRIAL WASTE AND SOIL REMOVAL ACTION
SCHRECK'S SCRAPYARD
North Tonawanda, New York

DAILY AIR QUALITY MONITORING RESULTS
Date: 2-25-91

Calibration (PID) HNU Span ___ at 56 ppm PID Background .2 ppm Scott Alert LEL ___ % and ___ %
PCB Air Sample No. Upwind ___ /Downwind ___
Average Flow Rate ___ cc/m/___ cc/m Total Volume ___ / ___
Temperature 30°F Wind Direction EAST Speed 10MPH Barometric Pressure ___

AIR QUALITY READINGS

| Time | Location | Activity | PID (ppm) | O2 (%) | LEL (%) | Dust (mg/m3) | Wind Direction |
|---|---|---|---|---|---|---|---|
| 12:30pm | BREATH. ZONE | CARPENTRY | .2 | 22.0 | 1 | - | EAST |
| 1:55pm | BREATH. ZONE | CARPENTRY | .2 | 22.1 | 1 | - | EAST |
| 3:00pm | BREATH. ZONE | CARPENTRY | .2 | 21.7 | 1 | - | EAST |
| 4:00pm | BREATH. ZONE | CARPENTRY | .2 | 21.2 | 2 | - | EAST |
| 4:30 pm | | END WORK | | | | | |
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Integrated Work Day PCB Air Monitoring Results: Upwind ___ Downwind ___
* Not detected at or above one microgram per cubic meter.