September 1992

L 0316005445
Valspar Paints--Cook Co.
ILD 081040107

EPA Region 5 Records Ctr.
303477

CERCLA Preliminary Assessment Report

Illinois Environmental Protection Agency
P.O. Box 19276,
Springfield, IL 62794-9276

Confidential Material May be Enclosed

Printed on Recycled Paper

CERCLA PRELIMINARY ASSESSMENT
VALSPAR PAINT
ILD 081040107

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EXECUTIVE SUMMARY

INTRODUCTION

The Valspar Paint site, the location of a former paint and varnish manufacturer, was placed on the Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) on February 19, 1991. This action was the result of Illinois Environmental Protection Agency (IEPA) concerns of possible groundwater contamination and public exposure to contaminants via direct contact.

The site occupies a total of 4.5 acres; located at 1330 South Kilbourne Avenue between 13th and 15th Street, Chicago, Illinois. It is situated in the northwest corner of Section 22, Township 39 North, Range 13 East, of Cook County, with a latitude and longitude of 41-51'-50" North and 87-44'-10" West. The site is accessible exiting north off Interstate 55, unto Cicero Avenue. Proceed up Cicero Avenue for approximately 3 and 1/4 miles, turn right onto Roosevelt. From Roosevelt, turn right onto South Kilbourne. Valspar is located approximately two (2) blocks south of Roosevelt.

Valspar Paint is bordered: on the north by Liberty Motors and Peoples Gas Light and Coke of Chicago Field Office; on the east by a parking lot and residential homes; on the south by Armstrong Containers, Inc.; and on the west by railroad tracks owned by Belt Railroad of Chicago. This immediate area as seen on the aerial photograph (Map M#2), is mostly industrial with sections of residential neighborhoods.

This site currently consists of 33 multi-story

buildings, from one to seven floors, and more than 300 storage tanks (including no less than 54 underground storage tanks). Eleven additional buildings were destroyed in a 1982 fire and have been covered with fill from an unknown source. Of the existing 33 buildings, five were partially destroyed by a 1990 fire. Additional information on each of these buildings and tanks is available in Appendix E. (Taken from a Preliminary Assessment/Visual Site Inspection Report conducted by PRC Environmental Management, Inc., March, 1992.)

HISTORY

According to the Preliminary Assessment/Visual Site Inspection Report, March, 1992, by PRC, the site was used by W.A. Jones Foundry and Machine Company between 1914 and 1935. Armstrong Paint acquired the property in 1935 and presumedly operated a paint manufacturing plant there until 1969. In 1976, Valspar began producing latex and solvent paints, varnishes, and roofing compounds. Valspar ceased all operations in 1984, vacated this rented facility and assisted American National Trust (Number 75860) in donating the property to Goodwill Industries, Inc. Goodwill used the facility only to temporarily store paper bales and to allow Kilbourne Properties Company to store equipment and utilize some of the available office space.

ENFORCEMENT

According to IEPA Bureau of Land records, Valspar filed a RCRA Part A permit application as a generator and a treatment, storage and disposal facility in November, 1980. This permit, approved in March, 1982, allowed for the storage of 10,000 gallons of hazardous waste in containers and 4,000 gallons of hazardous waste in tanks. Permitted hazardous wastes were listed as ignitable solid waste (D001), corrosive solid waste (D002), lead (D008), and spent, non-halogenated solvents (F003) - Appendix F. There were no records to indicate that Valspar ever applied for a National Pollutant Discharge Elimination System (NPDES) permit, an air permit, or for a permit to discharge wastewater to the Chicago Metro Water Reclamation District.

In November, 1984, Valspar filed a RCRA closure plan for a 4,000 gallon storage tank and one container storage area with 181 drums (Appendix G). This plan stated that caustic residues would be neutralized and any lead containing liquids would also be cleaned and removed. The IEPA approved this plan in February, 1985.

In an April, 1985 closure inspection, a number of tanks and containers of roofing compounds, solvents, and other unknown materials were discovered. Valspar disclaimed responsibility for these items stating they simply leased the facility, and that Goodwill was the current owner. The IEPA concluded that Valspar left hazardous materials on-site (which became waste 90 days after Valspar left the facility)

and that this site was still subject to RCRA closure guidelines.

In 1985 Valspar hired a private consultant, Kinsey Consulting, Inc. (Kinsey), that determined the 12,360 gallons of hazardous residues in 77 tanks required removal. By July, 1987, Kinsey had completed the following tasks: removed dust and peeled paint from the floors in buildings 7, 8 and 12; cleaned 58 aboveground tanks; cleaned 23 underground storage tanks and pressure tested them to determine if they leak; cleared all production and tank related pipes; and removed unused asbestos insulations in a storage shed (Appendix H).

In April, 1986, during an Interim Status Standard Inspection (ISS), IEPA discovered vandalism in areas containing hazardous waste and that valve heads on a number of tanks had been removed, resulting in materials spilling out onto the floor. In July, 1986, Kinsey conducted sampling for lead in buildings 7, 8 & 12. Lead contamination was discovered and a subsequent cleanup performed (Appendix I).

Later in September, 1987, the IEPA noted that photo-ionization detectors continued to pick up organic vapors in the underground storage tanks that Kinsey cleaned and that some tanks had liquid in them. Based on these occurrences, soil borings were taken and found to be contaminated. Subsequently, cleanup objectives were issued by the IEPA (Appendix J).

In July, 1988, during an ISS inspection, the IEPA noted continued vandalism. In January, 1990, RERC (consulting firm

hired by Goodwill to perform an environmental assessment of the site) identified high levels of PCBs discovered in wipe samples from Buildings 3, 9 and 14. They also discovered high levels of lead in facility soils and volatiles from resin samples collected west of Building 7 (Cooper's Pit).

Later in June, 1990, RERC reported liquids seeping out of pipes and onto the ground. In July, 1990, RERC sampling of piping insulation revealed the presence of 40 to 50 percent amosite and chrysotile asbestos fibers (PRC summary of the RERC report -Appendix K).

In August, 1990, the Chicago Fire Department responded to a fire in Buildings 13-A, 13-B and 14 (intentionally set by an unknown person) and discovered 10 to 20 foot deep open sewers, pits with 24 inch openings, and a liquid storage tank approximately 15 feet long and 6 feet in diameter.

In September, 1990, Weston Technical Assistance Team (TAT) was contracted by the U.S.EPA to conduct a CERCLA Site Assessment (SA) of the facility to identify potential immediate removal items. The following areas of concern were identified: Building 3, where electrical generators may have been dismantled and PCBs may be present; resin storage areas on the south and north halves of Building 6; Building 7 (Cooper's Pit); and the basement of Building 9.

In January, 1991, the IEPA approved a Settlement Proposal by International Technology Consultants (IT) for Valspar, outlining closures on additional tanks and a soil and soil-vapor survey.

In November, 1991, Valspar, Goodwill, Howard Conant, and the IEPA, signed a consent agreement stating that Valspar would fund a characterization study of the site along with subsequent sampling, removal, disposal, and remediation of areas identified through this study. This cleanup will be conducted to the satisfaction of the IEPA, according to RCRA and CERCLA guidelines. As of September, 1992, the details concerning the extent or coverage of this study, are being negotiated between Valspar, the Illinois Attorney General's Office, and the IEPA. A copy of IT's Draft Characterization Study, July, 1992, is attached - Appendix L.

In March, 1992, PRC Environmental Management, Inc. (PRC) released a Preliminary Assessment/Visual Site Inspection report on this facility, based upon their investigations initiated in July, 1991. PRC was contracted to perform this study by the U.S.EPA, under RCRA guidelines.

SITE RECONNAISSANCE

An on-site reconnaissance visit was conducted on August 12, 1992, by Steve Gobelman, Bill Bade, and Tim Murphy of IEPA's Bureau of Land Pollution. There was substantial evidence of direct human contact to this site. Bedding areas, cooking fire remains, empty alcohol beverage containers and spray painted graffiti, clearly indicate that unauthorized (and unprotected) people (estimated at least four) were visiting/living on this site. During the visit a

sleeping vagrant was discovered in Building 1. Security at the site, consisting of a locked fence, is inadequate since whole sections of the fence, have been stolen from the site (Appendix C). Strong odors of volatiles were noted while touring some of the building basements. Oily stains and frayed pipe lagging, possibly containing asbestos, were witnessed in numerous buildings throughout the site. Resins noted in past reports to be oozing from leaking overhead pipes, are still slowly escaping. Numerous tank openings and pits with plywood covers were witnessed in Cooper's Pit (Building 7) and in a few other buildings. These poorly covered pits continue to present a safety hazard to trespassers and site visitors who could unwarily fall into one of these tanks.

AREA GEOLOGY

No site-specific geological data exits but regional geology and well records from nearby wells (1-2 miles - Appendix M) indicate that approximately 60-70 feet of glacial drift underlie the region. This drift is underlined by approximately 320 feet of Silurian Age dolomites. Beneath the dolomites are four members of the Ordovician Age: Maquoketa shale-dolomite (approximately 190 ft thick); Galena-Platteville dolomite, (approximately 350-450 ft thick); Saint Peter sandstone, an aquifer layer (approximately 35-85 ft thick); and Oneota dolomite (approximately 170-330 ft thick). Below the Ordovician

system is the Cambrian system consisting of three units: the Trempealeau dolomite; Franconia sandstone and dolomite; and Ironton-Galesville sandstone. The significant water bearing regions include the Saint Peter sandstone (approximately 900-1000 ft below the ground surface), the Ironton-Galesville sandstone (approximately 1300-1600 feet below the ground surface), and the Mount Simon sandstone (approximately 1900 feet below the ground surface). The unconsolidated glacial deposits and Silurian dolomite formations beneath the site are hydraulically connected. The depth to groundwater and the direction of groundwater flow in this area is unknown.

EXPOSURE PATHWAYS

GROUNDWATER

According to the Illinois State Water Survey and from phone conversations with local water officials, no drinking water wells were discovered within a four mile radius of the site. Water for residents within this area is supplied by the city of Chicago. The source of this water is from Lake Michigan. Some industries within four miles of the site utilize deep sandstone wells (St. Peter, Ironton-Galesville, and Mount Simon) for their industrial use. These aquifers are hydraulically separated from the shallow drift and dolomite aquifers by the Maquoketa Shale Formation. A random sample of these owners were contacted by phone to confirm that their well usage excluded supplying water for drinking purposes (Appendix N).

SURFACE WATER

According to the U.S. Department of Commerce 1968 (revised 1977), Climatic Atlas of the United States, the average annual precipitation for the area of this site for the period 1931-1955 was 33.57 inches. The Valspar site is situated 605 feet above mean sea level. The terrain slightly drops to the east of the facility at a slope less than 0.1 degrees (10 foot drop over approximately 8000 horizontal feet). Flood Insurance Rate Maps indicate the site is in an area of minimal flooding, outside the 500 year flooding boundary. Sewage drains are located on South Kilbourne Avenue directly outside the fenced facility. Several drains with unknown destinations (assumed to be sewer drains) were witnessed on-site. These intakes drain into the city of Chicago sewer system. Sewage in this part of Chicago, reportedly (Appendix N6 & N7) goes to the Stickney Sewage Disposal Plant, where it is treated and released into the Chicago Sanitary and Ship Canal (approximately four miles to the southeast - Appendix B). The Chicago Sanitary and Ship Canal has an estimated flow rate range of 1640-13800 cubic feet per second with an average rate of 4170 cubic feet per second. (According to a 1991 U.S. Geological Survey data, station 5536995, located at 41-38'26"N, 88-03'-38"W, Romeoville, Il., with a drainage area of 739 square miles.)

The only sensitive environment identified along this 15-

mile pathway is the Sante Fe Prairie, an Illinois Natural Area Inventory Site (Appendix D). The Sante Fe Prairie is located along the North bank of the Chicago Sanitary and Ship Canal, approximately 6 1/2 miles downstream of the Stickney Sewage Disposal Plant.

SOIL EXPOSURE

Currently there is no 24-hour security service on this site. The dilapidated condition of the security fence (Appendix C) allows easy access to this site. Additionally, there were no observed warning signs indicating the hazardous materials and conditions on-site (PCBs, asbestos, lead, solvents, volatiles, open pits, fire-damaged buildings, etc.) As already mentioned in the site reconnaissance summary, evidence of direct human contact on this site were witnessed.

AIR

Winds are typically from the north-northeast in winter and from the south in the summer. Wind speeds average 8.1 to 12.1 miles per hour (U.S. DOC, 1980).

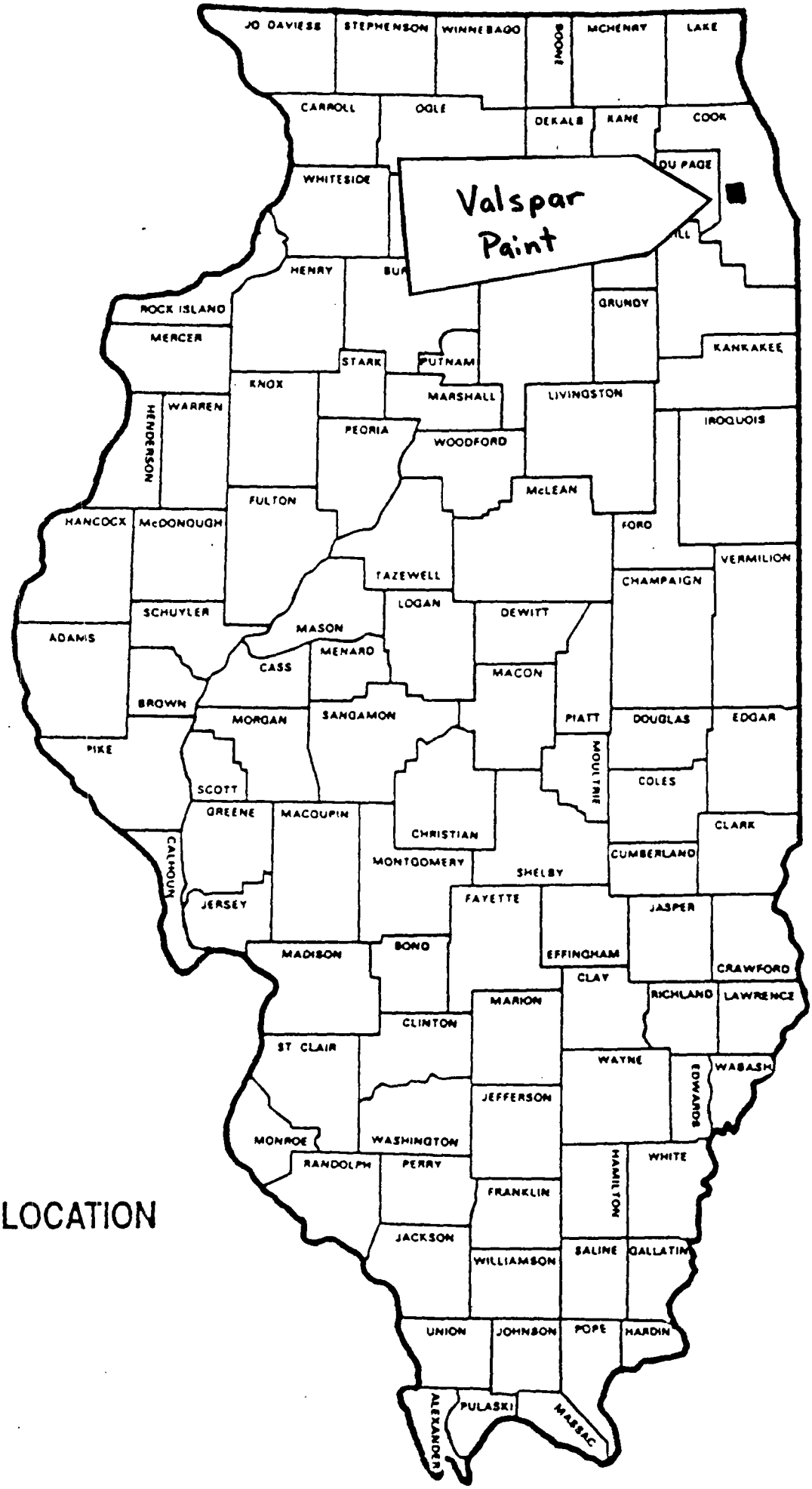
As noted in the site reconnaissance, strong odors of volatiles were detected in the basements of some buildings. These are not deemed a threat for adjacent business employees and residences, but could pose a serious health risk to homeless and vagrants frequenting this site. There is an estimated population of 2434 people living within 1/4 mile of this site; 10,730 people within 1/2 mile; and 736,209 people

within 4 miles of the site.

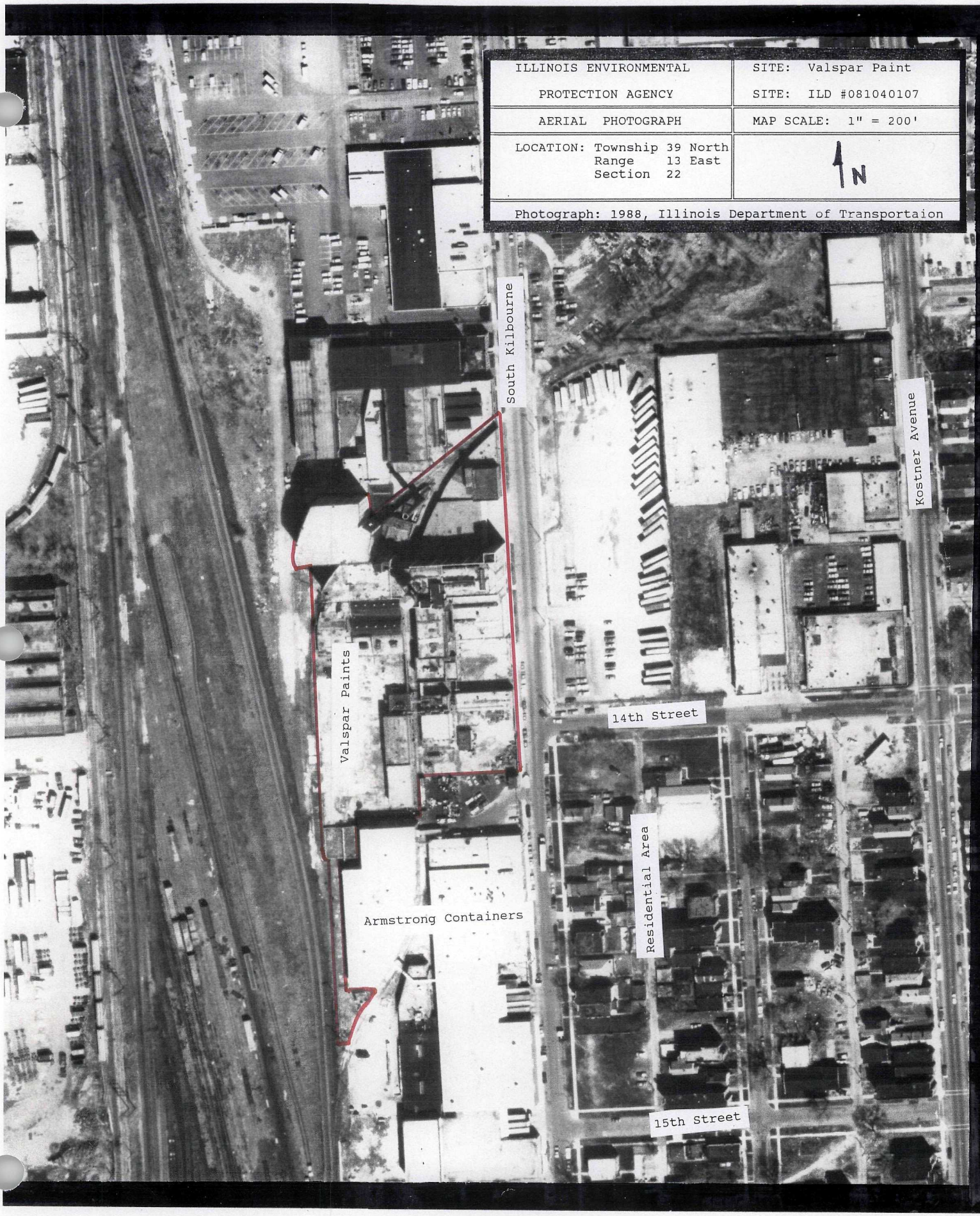
SITE RECOMMENDATION

Steps should be taken to prevent continued access to this site and warning signs should be posted. This site is currently undergoing a cleanup effort by Valspar Corp., according to a specified time frame under a signed Consent Agreement. The parameters of this cleanup effort are currently being negotiated between the State of Illinois and Valspar, according to the areas addressed in the Characterization Study. Because this Characterization Study may be legally limited and unable to address the full extent of contamination at this site, further CERCLA action is recommended, with medium priority.

Mc



SITE LOCATION



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY	SITE: Valspar Paint SITE: ILD #081040107
AERIAL PHOTOGRAPH	MAP SCALE: 1" = 200'
LOCATION: Township 39 North Range 13 East Section 22	N
Photograph: 1988, Illinois Department of Transportaion	

A

SDMS US EPA Region V

Imagery Insert Form

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APPENDIX A- SITE 4-MILE RADIUS MAP

Document is available at the EPA Region 5 Records Center.

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;APPENDIX B – SITE 15-MILE RADIUS MAP

Document is available at the EPA Region 5 Records Center.

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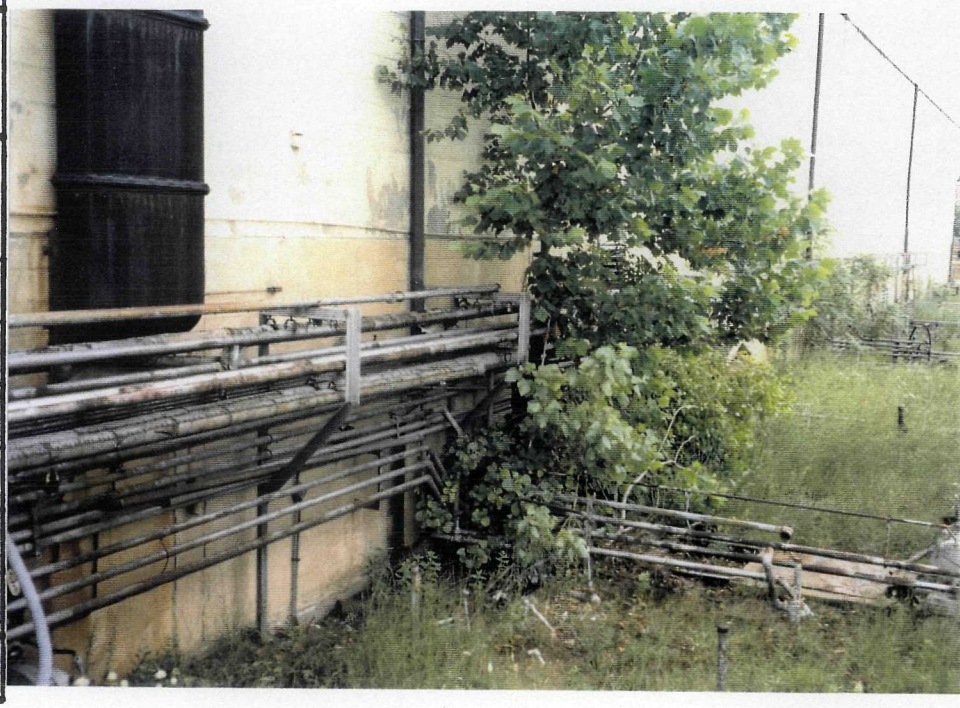
C

ILD # 081040107

INSPECTION PHOTOS

DATE: 8/12/92	SITE #: 0 3 1 6 0 0 5 4 4 5 CO.: COOK
TIME: 11:15	SITE NAME: VALSPAR PAINT
PHOTOGRAPH TAKEN BY: Steve Gobelman	
COMMENTS: Pictures taken toward: the West. Landfilled area, former location of buildings 4 & 4A.	
ROLL #: 1 PHOTO #: 1	

DATE: 8/12/92
TIME: 11:25
PHOTOGRAPH TAKEN BY: Steve Gobelman
COMMENTS: Pictures taken toward: the East. Pipe raceway running along the South Tank Farm.
ROLL #: 1 PHOTO #: 2



FOS

IL 532 1910
LPC 375 08/90

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ILD # 08 10107

INSPECTION PHOTOS

DATE: 8/12/92	SITE #: 0 3 1 6 0 0 5 4 4 5 CO.: COOK
TIME: 11:30	SITE NAME: VALSPAR PAINT
PHOTOGRAPH TAKEN BY: Steve Gobelman	
COMMENTS: Pictures taken toward: the South. Unsecure gate on the southwestern edge of the North Tank Farm.	
ROLL #: 1 PHOTO #: 3	

DATE: 8/12/92
TIME: 11:32
PHOTOGRAPH TAKEN BY: Steve Gobelman
COMMENTS: Pictures taken toward: the Northwest. Missing portion of the security fence - stolen.
ROLL #: 1 PHOTO #: 4

FOS

IL 532 1910
LPC 375 08/90

Printed on Recycled Paper

ILD # 081040107

INSPECTION PHOTOS

DATE: 8/12/92	SITE #: 0 3 1 6 0 0 5 4 4 5 CO.: COOK
TIME: 11:35	SITE NAME: VALSPAR PAINT
PHOTOGRAPH TAKEN BY: Steve Gobelman	
COMMENTS: Pictures taken toward: Cook/Campfire in building #7, 1ST Floor.	
ROLL #: 1 PHOTO #: 5	

DATE: 8/12/92	
TIME: 11:40	
PHOTOGRAPH TAKEN BY: Steve Gobelman	
COMMENTS: Pictures taken toward: Graffiti left by vandals on the 2nd floor of building #7.	
ROLL #: 1 PHOTO #: 6	

FOS

IL 532 1910
LPC 375 08/90

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ILD # 081040107

INSPECTION PHOTOS

DATE: 8/12/92	SITE #: 0 3 1 6 0 0 5 4 4 5 CO.: COOK
TIME: 11:45	SITE NAME: VALSPAR PAINT

PHOTOGRAPH TAKEN BY: Steve Gobelman

COMMENTS: Pictures taken toward:

Personal items found on the 2nd floor of building #7.

ROLL #: 1 PHOTO #: 7

DATE: 8/12/92

TIME: 11:47

PHOTOGRAPH TAKEN BY: Steve Gobelman

COMMENTS: Pictures taken toward: the Southwest.

Damaged security gate, allowing public access to the site.

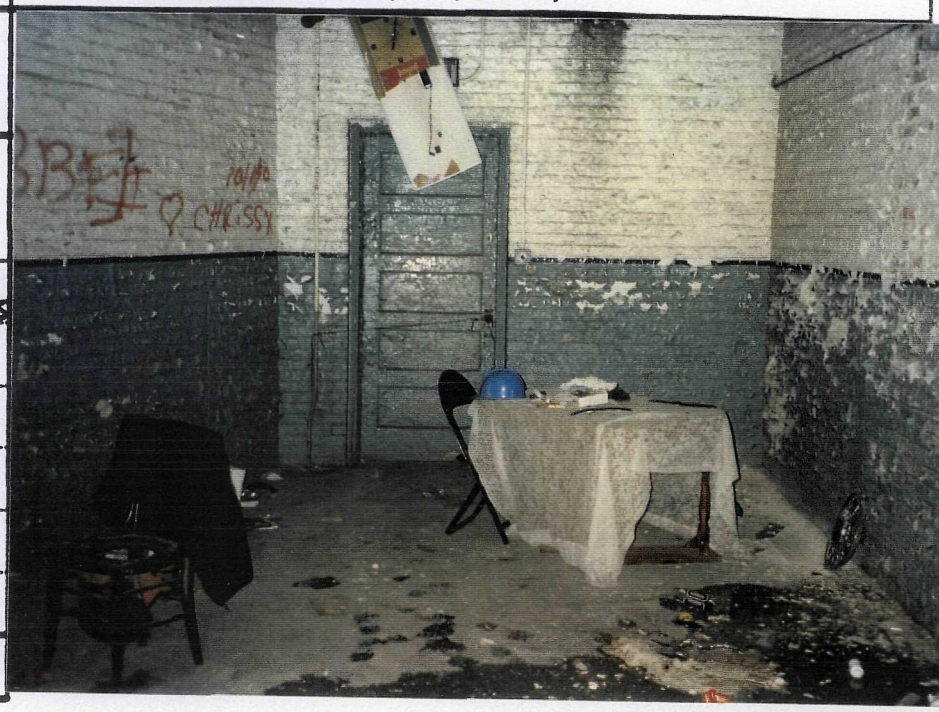
ROLL #: 1 PHOTO #: 8

FOS

ILD # 08 0107

INSPECTION PHOTOS

DATE: 8/12/92	SITE #: 0 3 1 6 0 0 5 4 4 5 CO.: COOK
TIME: 12:15	SITE NAME: VALSPAR PAINT
PHOTOGRAPH TAKEN BY: Steve Gobelman	
COMMENTS: Pictures taken toward: Possible living quarters discovered in a small room on the 2nd floor of building #7.	
ROLL #: 1 PHOTO #: 9	



DATE: 8/12/92	
TIME: 12:40	
PHOTOGRAPH TAKEN BY: Steve Gobelman	
COMMENTS: Pictures taken toward: Makeshift bed discovered in building #11, 1ST floor.	
ROLL #: 1 PHOTO #: 10	

FOS

ILD # 081040107

INSPECTION PHOTOS

DATE: 8/12/92	SITE #: 0 3 1 6 0 0 5 4 4 5 CO.: COOK
TIME: 1:30 pm	SITE NAME: VALSPAR PAINT

PHOTOGRAPH TAKEN BY: Steve Gobelman

COMMENTS: Pictures taken toward: the Southeast. Residential area on the corner of 14th and South Kilbourne.

ROLL #: 1 PHOTO #: 11

DATE: 8/12/92	
TIME: 1:32 pm	

PHOTOGRAPH TAKEN BY: Steve Gobelman

COMMENTS: Pictures taken toward: the North. On the left, building #2, the main gate and buildings #14 and #12. Picture taken on South Kilbourne.

ROLL #: 1 PHOTO #: 12

FOS

D

TO ID 7/29/92

Illinois Environmental Protection Agency P.O. Box 19276, Springfield, IL 62794-9276

TO: Dick Lutz ,IDOC ILD.# 081040107

FROM: BILL BADE (IEPA, DLC, 782-9883)

DATE: 7/27/92

RE: Review of Sensitive Environment Locations

To assist the Illinois Environmental Protection Agency's Preremedial Program in determining if the CERCLIS site identified above may be posing a potential threat to nearby sensitive areas, we are requesting that your staff review the information provided below, and determine if any of the identified sensitive areas are present within the designated target distances.

To expedite our environmental assessment process, we ask that you make every effort to complete your review within thirty (30) days of the date identified above.

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V 'spar Paints
1330 S. Kilborne, Chicago
(T 39N R 13E Sector 22)

DEPARTMENT OF CONSERVATION IDENTIFICATION OF ENVIRONMENTAL SENSITIVE AREAS

RECEIVED
AUG 26 1992
IEPA/DLPC

SENSITIVE ENVIRONMENTS	TARGET DISTANCE CATEGORIES: On-site	0-1/4 mile	1/4-1/2 mile	stream milage
I. Critical habitat for Federally designated or proposed endangered or threatened species	—	—	—	—
II. Habitat known to be used by Federally designated or proposed endangered or threatened species	—	—	—	See map
III. State wildlife refuge	—	—	—	—
IV. Spawning areas critical for the maintenance of fish/shellfish species within a river system	—	—	—	—
V. Terrestrial areas utilized by large or dense aggregations of verbebrate animals for breeding	—	—	—	—
VI. Habitat known to be used by State designated or threatened species	—	—	—	See map
VII. Habitat known to be used by a species under review as to its Federal endangered or threatened status	—	—	—	—
VIII. State lands designated for wildlife or game management	—	—	—	—
IX. State designated natural area	—	—	—	See map X
X. Particular areas, relatively small in size, important to the maintenance of unique biotic communities	—	—	—	See map

If any of the sensitive areas identif[illegible] above exist within the designated target distance limits, please pu[illegible] an aster[illegible] (*) in the appropriate column.

Brent Manning
Director

John W. Comerio
Deputy Director

Bruce F. Clay
Assistant Director

Illinois Department of Conservation

life and land together

LINCOLN TOWER PLAZA • 524 SOUTH SECOND STREET • SPRINGFIELD 62701-1787
CHICAGO OFFICE • ROOM 4-300 • 100 WEST RANDOLPH 60601

[redacted]

Note - items lined out were located along the North Branch Chicago River. Based on a Aug 26, 1992 Phone Conversation with Jim Jackson of the Chicago Water Reclamation District, this surface water pathway was excluded from consideration in this Preliminary Assessment.
William D. Bade

August 21, 1992

Mr. Bill Bade
DLC/IEPA
P.O. Box 19276
Springfield, IL 62794-9276

Re: 081040107
Valspar Paints

Dear Mr. Bade:

Per your July 27, 1992 request the Department has reviewed the above noted CERLCIS project in Cicero, Cook County, Illinois.

Based on our review we have determined there are no sensitive resources (form attached) on site, or in the 0 - ¼, ¼ - ½ mile radius of the site. There are sensitive resources found along the waterpath. These include:

Scientific Name	Common Name	Status
~~Beckmannia syzigachne~~	~~American Sloughgrass~~	~~SE~~ WDB
~~Falco peregrinus~~	~~Peregrine falcon~~	~~SE, FE~~ WDB
~~Polygonatum pubescens~~	~~Downy solomon's seal~~	~~ST~~ WDB

In addition, there ~~are two~~ is one Illinois Natural Area Inventory sites located within this area:

~~Edgebrook Flatwoods~~ WDB
Santa Fe Prairie

Each occurrence has been delineated on the attached map (SE = State endangered, FE = federally endangered, ST = state threatened).

Thank you for the opportunity to comment.

RECEIVED
AUG 26 1992
IEPA/DLPC

Sincerely,

Richard W. Lutz

Richard W. Lutz
Acting Supervisor
Division of Impact Analysis

RWL:ts
Att: waterpath map with sensitive resources information
sensitive areas form

obtained do not indicate scales, or the scales are illegible. Based on unscaled maps PRC located after the VSI, PRC used a planimeter and a known area at the facility to determine approximate building areas.

2.2.1 Resin Production Areas

Valspar produced alkyd resins at the facility from 1976 to 1982, when the resin production buildings caught fire and burned down. Valspar used polymer reactors to produce resins in Buildings 4, 4-A, 4-C, 17, 17-A, and 22 (IT, 1990b). Prior to the time that Valspar used the facility, these buildings were used for material storage and varnish stilling and thinning. PRC did not observe these buildings during the VSI, because their locations were covered with fill material, construction rubble, and vegetation (see photographs 32 and 33). PRC determined that these buildings had a combined, approximate floor space of about 22,400 square feet (see Table 1). Building 4-C was three stories high; Buildings 4 and 4-A were two stories high; and Buildings 17 and 17-A were one story high (Armstrong Paint, date unknown). PRC could not determine the story height of Building 22.

PRC did not locate six other numbered buildings in the same general area as the resin production buildings. These are buildings 3-A, 3-C, 3-D, 3-E, 4-B, and 21. PRC could not determine what activities took place in these building when Valspar used them. Prior to the time that Valspar used the facility, Building 4-B was used for tank storage; PRC could not determine what was stored in the tanks. Raw materials were also stored in Building 21; PRC could not determine what raw materials were stored or the storage methods used to store them (Armstrong Paint, date unknown). The approximate floor areas contained in these buildings are presented in Table 1. Building 21 was one story high (Armstrong Paint, date unknown). PRC could not determine the story height of Buildings 3-A, 3-C, 3-D, 3-E, and 4-B.

The only remaining, standing structures near the former resin production buildings are two, vertical, steel tanks (see photograph 34). These tanks each have a capacity of 20,000 gallons (IT, 1990b). PRC could not determine what these tanks stored.

2.2.2 Resin Storage Areas

Valspar stored resins mixed with nonchlorinated solvents in Buildings 3, 3-B, 5-A, 5-B, 5-C, 6, 6-A, 15-A, and 15-B (IT, 1990b). PRC could not determine the exact areal dimensions of these buildings, because detailed, scaled drawings were not provided by Valspar or Goodwill. Based on unscaled maps PRC located after the VSI, PRC used a planimeter and a known area at

TABLE 1
SUMMARY OF APPROXIMATE BUILDING AREAS

Building/Area	Story Height	Approximate Area (square feet)[a]
Buildings 1 & 2	2	2,800
Building 3	1	1,100
Building 3-A	NA	100
Building 3-B	1	2,300
Building 3-C	NA	200
Building 3-D	NA	70
Building 3-E	NA	100
Building 3-F	2	2,500
Building 4	2	4,000
Building 4-A	2	3,400
Building 4-B	NA	800
Building 4-C	3	1,700
Building 5-A	2	1,100
Building 5-B	1	600
Building 5-C	1	700
Building 5-D	1	200
Building 5-E	2	200
Building 6	1	5,300
Building 6-A	1	580
Building 7	8[b]	8,000
Building 7-B	1	1,100
Building 7-C	1	3,500
Building 8	7	9,300
Building 9	1	2,000

TABLE 1 (Continued)
SUMMARY OF APPROXIMATE BUILDING AREAS

Building/Area	Story Height	Approximate Area (square feet)[a]
Building 9-A	2	600
Building 9-B	1	1,100
Building 9-C	2	1,700
Building 10	2	1,700
Building 10-A	1	3,600
Building 11	2[b]	9,000
Building 12	7[b]	7,300
Building 13	4[b]	4,900
Building 13-A	2	1,900
Building 13-B	2	700
Building 14	5[b]	5,700
Building 14-A	2	800
Building 15	1	940
Building 15-A	1	2,100
Building 15-B	1	730
Building 17	1	1,200
Building 17-A	1	940
Building 21	1	1,669[c]
Building 22	NA	400
Building 25	1	870
North Tank Farm	--	4,400
South Tank Farm	--	7,500

TABLE 1 (Continued)
SUMMARY OF APPROXIMATE BUILDING AREAS

Notes:

NA = Not Available.

[a] PRC used a planimeter and a known area inside the facility to approximate areas of buildings and tank farms. The areas presented in this table are approximate and should be used only to compare the relative areas of buildings or tank farms.

[b] The number of stories in this building includes a basement.

[c] The exact, numerical area of Building 21 is provided on a map obtained by PRC after the VSI (Armstrong Paint, 1961).

the facility to determine that these buildings have a combined, approximate floor space of about 15,600 square feet (see Table 1).

Building 3 is a one-story building located near the south-central part of the facility (see photographs 19, 20, and 21). It is flanked by a railroad spur to the east. Because the facility lacks electrical power, the building was dark when PRC performed the VSI. Using flashlights, PRC identified 11 tanks in this building. The had volumes ranging from 2,000 to 6,000 gallons (IT, 1990b). PRC was able to look inside the base of one of the tanks, and it contained a thick, viscous, dark substance that Valspar stated during the VSI may be varnish. The room was littered with debris. PRC identified a small trench about 1 foot wide and 10 feet long. The trench was filled with a material that appeared to be straw or grass, so PRC could not determine the depth of the trench. Near the west end of the building, PRC observed a dark substance on the floor. A number of pipes over this substance indicated that the substance may have dripped from the pipes onto the floor. The spill area is about 3 feet long and several inches wide. The building has a high ceiling, perhaps more than 20 feet above the floor. PRC determined that this building has a floor space of about 1,100 square feet (see Table 1).

Building 3-B is a one-story building located south of Building 3 (see photographs 22, 23, 24, and 25). The building is recessed into the ground, and PRC walked down about 10 feet of metal stairs into the building. The floor was covered with rust-colored sludge, piping insulation, and other debris, and these materials were saturated with liquid. Trenches running along the length and width of the room were filled with liquid. Because the trenches were full of liquid and because PRC could not see well due to the darkness in the building, PRC became concerned about the safety of its inspection team and did not fully explore this building. Based on the layout of the building, PRC tentatively identified 18 tanks. Information provided to PRC after the VSI indicates that 18 tanks ranging in volume between 8,000 and 20,000 gallons are located in Building 3-B (IT, 1990b). PRC believes that the ceiling may be as high as 40 feet above the floor of the building. PRC determined that this building has a floor space of about 2,300 square feet (see Table 1).

Building 5-A is located near the center of the facility west of a railroad spur that cuts through the property (see photograph 50). It is a small, two-story building. PRC identified five tank units in this building, but information provided to PRC after the VSI indicate that a total of 11 tanks were located in this building when Valspar operated at the facility. These tanks range in volume between 50 and 2,500 gallons (IT, 1990b). Because tank units in several buildings contain more than one tank, PRC believes it observed all 11 tanks and that several tanks may be located in shells containing more than one tank. The floor of this building was littered with debris. The

ceilings appeared to be about 10 feet from the floor on both stories. PRC determined that each floor of this building has an estimated floor space of about 1,100 square feet (see Table 1).

Building 5-B is a one-story building located west of Building 5-A (see photograph 51). PRC identified two tank units in this building; however, information provided to PRC after the VSI indicates that a total of four tanks were located in this building when Valspar operated at the facility. These tanks range in volume between 500 and 2,250 gallons (IT, 1990b). Because tank units in several buildings contain more than one tank, PRC believes it observed all four tanks and that three tanks may be located within a common tank shell. The smaller of the two tank units had been cut open, probably as part of a removal action initiated in 1985. The ceiling of this building appeared to be about 20 feet above the floor. PRC determined that this building has a floor space of about 600 square feet (see Table 1).

Building 5-C is a one-story building located west of Building 5-B (see photograph 52). Entrance to the building is made through a door on its south side, and a set of stairs leads about 5 to 10 feet down to the floor. PRC observed tank units in this building, but PRC could not count the number of tanks from the doorway into the building. PRC did not enter this small building because the floor was covered with a dark, brownish-red liquid with oily scum floating on it. PRC estimated that the liquid was about 2 to 3 feet deep based on the level of the liquid against the tank valves. The room was littered with metal piping protruding from the liquid and tanks. Information provided to PRC after the VSI indicates that a total of eight tanks were located in this building when Valspar operated at the facility. These tanks range in volume between 9,000 and 9,250 gallons (IT, 1990b). The ceiling of this building appeared to be about 25 feet above the liquid level. PRC determined that this building has a floor space of about 700 square feet (see Table 1).

Building 6 is a one-story building located to the north of Buildings 5-A, 5-B, and 5-C (see photographs 46 and 47). Five east-west rows of tanks run the entire length of the building. Two rows running along the north and south walls of the building and one row running down the middle of the building consist of tanks resting on the building floor. The other two rows of tanks are elevated on steel beams over the walkways between the other rows. Catwalks running along the elevated tank rows were observed, but the ladders and portions of the metal grating that made up the catwalks had been removed. Goodwill reported that vandals had cut the catwalks down for their scrap metal value. The floor of the building was littered with debris, including about four bags of what appeared to be used personal protective equipment (PPE). PRC also observed resinous puddles on the floor. Leaks of an orange-brown substance from the elevated tanks were slowly forming what may best be described as chemical stalactites. Goodwill stated that these stalactite-like deposits break off every winter when it is cold and return every summer when it is

warm. PRC observed that some tanks had been cut open and drained. These tanks appeared to be empty. PRC did not count the number of tanks in this room because it could not identify the elevated tanks. Information provided to PRC after the VSI indicates that a total of 104 tanks were located in this building when Valspar operated at the facility (IT, 1990b). Because the tanks were crowded uniformly together against the walls and above the floor, PRC believes that no tanks have been removed from this building. These tanks range in volume between 800 and 8,000 gallons (IT, 1990b). Most tanks have capacities of about 2,500 gallons. The ceiling in this building appeared to be about 20 to 30 feet above the floor. PRC determined that this building has a floor space of about 5,300 square feet (see Table 1).

Building 6-A is a one-story building located west of Building 6 (see photographs 48 and 49). PRC observed three tanks on an elevated catwalk in this building. For safety reasons, PRC did not attempt to access the catwalk. The floor of the building was littered with debris and puddles of a yellow, resinous substance that appeared to be leaking from two overturned buckets. Information provided to PRC after the VSI indicates that a total of three tanks were located in this building when Valspar operated at the facility. These tanks range in volume between 150 and 350 gallons (IT, 1990b). The ceiling in this building appeared to be about 20 feet above the floor. PRC determined that this building has a floor space of about 580 square feet (see Table 1).

Building 15-A is a one-story building located in the south-central portion of the facility (see photograph 14). The building's floor was littered with debris and dust, but the building appeared empty. Paint was peeling off the walls and columns in this building, and piping insulation was observed on the floor and wrapped around pipes running along the building's walls. PRC did not observe any tanks in this building, but information provided to PRC after the VSI indicates that Valspar used three tanks in Building 15-A. However, these tanks were removed prior to 1985 (IT, 1990b). The ceiling of this building appeared to be about 30 to 40 feet above the floor. PRC determined that this building has an estimated floor space of about 2,100 square feet (see Table 1).

Building 15-B is a one-story building located south of Building 15-A (see photographs 8, 9, 10, and 11). The floor of this building was coated with several inches of thick, viscous materials. Some of the material was dark in color, and some of it was milky white. Scrap metal equipment, dark rust-red stains, and scrap wood were observed resting in the puddles of material. PRC observed five tanks in this building. Information provided to PRC after the VSI indicates that Valspar used five tanks in Building 15-B. These tanks have volumes ranging between 2,100 and 4,500 gallons (IT, 1990b). The tanks are all located against the south wall of this building, and an east-west walkway runs along the north side of the tanks. The ceiling appeared to be

about 20 feet above the floor. PRC determined that this building has an estimated floor space of about 730 square feet (see Table 1).

2.2.3 Paint Process Areas

Valspar produced paint and other coatings during its period of operation at the facility primarily in Buildings 7, 8, 10, 11, 12, and 13. Because Buildings 14 and 14-A are located near these buildings and because most of those two buildings were burned in a 1990 fire, they are discussed in this section. Building 10-A consists of only one floor attached to Building 10, so it is discussed in this section as well. PRC could not determine the exact areal dimensions of these buildings because detailed, scaled drawings were not provided by Valspar or Goodwill. PRC determined that these buildings have a combined, approximate floor space of about 222,000 square feet (see Table 1).

Building 7 is a seven-story building with a basement. It is located between the two railroad spurs running through the north end of the facility. Building 8 is a seven-story building located north of Building 7. It does not have a basement. Building 10 is a two-story building located near the northeast corner of the facility. It also does not have a basement. Building 11 is a one-story building with a basement located south of Building 10. Building 12 is a six-story building with a basement located east of Building 7 and south of Building 11. Building 13 is a three-story building with a basement located south of the western end of Building 12 (Armstrong Paint, date unknown). Unless otherwise noted, the story heights for each floor of these buildings is about 10 feet.

The discussion of these buildings is organized by floor instead of by building because on several stories, these buildings are joined together.

2.2.3.1 Basement Level

Information provided to PRC after the VSI indicates that Valspar did not use any tanks in the basement of Building 7 (IT, 1990b). Prior to the time Valspar leased the facility, the basement of Building 7 was used to store "industrial S's" and drums (Armstrong Paint, date unknown). PRC could not determine what an industrial S is or was or what types of drums were stored in the basement. PRC determined that this building has a floor space of about 8,000 square feet (see Table 1). PRC did not observe the basement of Building 7 during the VSI because it did not locate any accessways to that level. Goodwill did not indicate that this building contained a basement level during the VSI.

The basement of Building 11 contains several distinct areas. The floors in each area appeared to be relatively clean in comparison to other floors in the facility. PRC determined that this building has a floor space of about 9,000 square feet (see Table 1).

PRC observed a rectangular hole in the north wall near the northeast corner of the Building 11 basement. The basement was dark, and flashlights did not provide enough light to view the entire contents of the space behind the north wall. PRC observed parts of two vertical tanks and one horizontal tank behind the hole. These tanks were partially covered with soil. PRC attempted to view the area west of the observed tanks but would have had to climb up to the hole and lean into it. PRC did not perform this activity because of safety concerns.

A floor trench runs generally north-south along the western end of the basement of Building 11. The 1-foot wide trench is at least 30 feet long. It contained several inches of standing liquid during the VSI. The trench was about 6 to 8 inches deep. PRC could not determine the purpose of this trench.

Four tanks are located at the south end of the basement of Building 11. The tanks are horizontal and are aligned in a north-south direction. Using tank gauges located next to the tanks, PRC estimated the volumes of the tanks to be about 10,000 gallons each. Information provided to PRC after the VSI indicates that four 4,000-gallon tanks are located in the basement (IT, 1990b). PRC is not sure why this discrepancy exists. An orange-colored, viscous material was leaking from a pipe near the tanks onto the machinery beneath it.

PRC observed two distinct areas in the basement of Building 12 (see photographs 75, 76, and 77). The first area is located along the east wall of the basement. Three, rectangular tanks are located here. These tanks are labeled as "Caustic." Debris was scattered about the tanks, including dust and pipe insulation. Information provided to PRC after the VSI indicates that these three 1,200-gallon tanks contained caustic wastewater (IT, 1990b).

At the west end of the Building 12 basement is a small room. To the east of the room's entrance are three pits with openings about 2 feet in diameter. Each pit contained liquid to a level about 1 to 2 feet below the concrete floor. PRC could not determine the depths of the pits. Inside the room, PRC observed three transformers and other electrical equipment. Because the floor in this room was damp, oily, and contained several inches of a sludge-like material in places, PRC did not enter the room. Oily stains were noted on the walls inside and outside this room. On the floor of this room, PRC observed what appeared to be pipe insulation soaking up some of the oily material. PRC determined that this building has a floor space of about 7,300 square feet (see Table 1).

The basement of Building 13 was mostly empty during the VSI (see photograph 78). PRC observed one, rusty drum resting against a column in the basement. The drum was tightly sealed, so PRC could not determine the contents of the drum. The floor of the basement was covered with debris and wet stains. The wet stains covered an area of approximately 50 to 75 square feet. PRC entered a pipe raceway through a door on the west side of the basement. The raceway appeared to be empty except for miscellaneous debris, but PRC did not walk the length of the raceway. PRC determined that this building has a floor space of about 5,600 square feet (see Table 1).

PRC observed a pit near the west end of the basement of Building 14 (see photograph 80). The pit was filled with a dark, translucent liquid. PRC observed a plastic pole in the pit, which Goodwill claimed was at least 15 feet deep. During the VSI, the floor of the Building 14 basement was covered with debris, including wood and an unknown, light-colored powder. PRC determined that this building has an estimated floor space of about 5,700 square feet (see Table 1).

The basement of Building 14-A contained a room filled with liquid to a depth of several inches (see photograph 79). PRC could not determine the source of the liquid. PRC observed 11 drums and other containers in this room. PRC did not cross the room to read the labels on the containers because of safety considerations. The walls in this room were stained with a light-colored, oily substance and a darker, streaked material. PRC determined that this building has a floor space of about 800 square feet (see Table 1).

2.2.3.2 First Floor

The first floor of Building 7 is an empty room (see photographs 41 and 42). PRC observed standing liquid near the middle of the room covering about half of the floor. The west wall of the room contained graffiti. The paint on the columns, walls, and ceiling of this room was peeling and had chipped and fallen to the floor in many places. PRC observed a drum containing a light-colored, semisolid substance lying on its side during the VSI. The drum was resting in an area containing standing liquid and heavy discoloration of the walls and floor. PRC determined that this building has an estimated floor space of about 8,000 square feet (see Table 1).

A wall divides the first floor of Building 8 into two areas (see photographs 59, 60, 61, 62, 63, 64, and 65). PRC observed seven 55-gallon drums, white powders, oily stains, and standing liquid in the southern section of the floor. Using a photoionization detector (PID), PRC

determined that several of the drums contained volatile constituents. In a small room at the southwestern corner of the building, PRC observed a rusted, rectangular tank. Beneath the tank were a number of white, crystalline piles, but PRC did not attempt to determine the nature of this substance. A drain was observed in the middle of the small room. In an engine room located in the northern corner of the building, PRC observed two engines and various electrical equipment associated with the engines. Trenches located beneath each engine shaft were all filled with an oily liquid during the VSI. The floor in the engine room is covered with white dust, oily liquids, and miscellaneous debris. PRC observed six 55-gallon drums in this room. Using a PID, PRC determined that several of the drums contained volatile constituents. PRC estimated that Building 8 has a floor space of about 9,300 square feet (see Table 1). Approximately 1/3 of this area is contained in the engine room.

The first floor of Building 10 contains four tanks hidden behind two doorways (see photograph 68). The floor of the building is covered with debris, including white powder and oily stains. PRC observed piping insulation and chipped paint lying on the floor. Information provided to PRC after the VSI indicates that a total of eight tanks were located in this building when Valspar operated at the facility. These tanks range in volume between 60 and 8,000 gallons (IT, 1990b). Four of these tanks are identified as having volumes of 8,000 gallons, and PRC believes that the tanks behind the doorways contain comparable volumes. PRC did not locate the other four tanks alleged to be present, although PRC believes that three of those tanks may be located in Building 10-A. PRC could not determine the location of the eighth, 60-gallon tank. PRC determined that Building 10 has an estimated floor space of about 1,700 square feet (see Table 1).

The first floor of Building 10-A contains three cylindrical tanks and one drum (see photographs 66 and 67). The floor was covered with debris, including pools of standing liquid, white dust, and paint chips. Several of the windows on this floor of Building 10-A were boarded up. According to information provided to PRC after the VSI, no tanks were located in this building (IT, 1990b). However, Building 10-A is attached to Building 10, and PRC believes that the three tanks that it observed may be three of the tanks identified as present in Building 10. PRC determined that Building 10-A has a floor space of about 3,600 square feet (see Table 1).

The first floor of Building 11 contains a conveyor belt along the west and north walls (see photographs 69 and 70). The floor of the building was covered with dust and miscellaneous debris. PRC identified at least two holes in the floor. Plywood sheets had been placed over the holes to prevent anyone from falling into them, according to Goodwill. PRC observed one tank on the first floor of Building 11. The tank appeared to be a 20-cubic-yard roll-off box with a fitting placed over a hole in its top to allow for filling and emptying operations. The ceiling of

the building was coated with chipping paint, and piping and piping insulation were beginning to sag from the ceiling and the walls. The ceiling of the building was about 25 to 30 feet above the floor. PRC determined that Building 11 has a floor space of about 9,000 square feet (see Table 1).

The first floor of Building 12 was empty, and except for some debris on the floor, PRC did not observe anything of note on this floor. PRC determined that Building 12 has a floor space of about 7,300 square feet (see Table 1).

PRC observed extensive fire damage on the first and higher floors of Buildings 13, 14, and 14-A (see photographs 81, 86, 97, and 105). Therefore, PRC did not enter those buildings above the basement level. Valspar stated during the VSI that these buildings were used for office space. Before Valspar used the facility, these buildings were also probably used for office space (Armstrong Paint, date unknown).

2.2.3.3 Second Floor

The second floor of Buildings 7 and 8 are joined together. The second floor of these buildings was empty except for debris covering the floor, including chipped paint and dust. PRC determined that the second floor of Buildings 7 and 8 has an approximate, combined floor space of about 17,300 square feet (see Table 1).

PRC did not observe the second floor of Building 10, because PRC did not locate an accessway to this floor. Goodwill did not indicate that a second floor existed, and PRC did not notice any signs of this floor of Building 10. Information provided to PRC after the VSI indicates that this floor exists (IT, 1990b). PRC determined that Building 10 has a floor space of about 1,700 square feet (see Table 1).

The second floor of Building 12 contained a conveyor belt (see photograph 82). Other than some debris on the floor, PRC did not observe anything of note on this floor of the building. PRC determined that Building 12 has a floor space of about 7,300 square feet (see Table 1).

PRC observed the second floor of Buildings 13 and 14 through a doorway into Building 14 from Building 12. The buildings were gutted by a fire in August 1990, and PRC did not enter the room because of safety concerns (see photographs 81, 86, 97, and 105).

2.2.3.4 Third Floor

On the third and higher floors, Buildings 7, 8, and 12 are all joined together. The connections are made over the railroad spurs that pass between these buildings on the lower floors. While climbing the stairs from the second to the third floors in Building 12, PRC observed pails containing a grey powder on the stairwells. PRC could not determine the contents of the pails. Signs above the pails read "Foam Powder." PRC determined that Buildings 7, 8, and 12 have a combined floor space of about 24,600 square feet on each floor (see Table 1).

PRC observed 20 tanks on the third floor of Building 7 (see photograph 87). These tanks were aligned in rows along the south, west, and north walls of the building. They had been painted various colors, and most of the paint on the tanks was peeling off at the time of the VSI. The tops of many of the tanks were open, and PRC observed paint residues in almost all of the 20 tanks. The paint residues were coated on the bottom, walls, and top of each tank. PRC could not determine the thickness of the paint residues. Three tanks that did not contain paint residues had been cut open and apparently cleaned. Information provided to PRC after the VSI indicates that Valspar used 20 tanks and one small glue pot on the third floor of Building 7. The tanks have volumes ranging between 450 and 1,600 gallons (IT, 1990b). The paint on the ceiling and walls of the room was chipping off. The floor was covered with debris, including dust, paint chips, spilled paint, and glass.

PRC observed 18 tanks on the third floor of Building 8 (see photographs 88, 89, and 90). All but one of the tanks were aligned against the south and west walls. The other tank was located in the center of the building. PRC noted that at least six of the tanks in this room had been cut open and drained. Information provided to PRC after the VSI indicates that Valspar used 18 tanks on the third floor of Building 8. The tanks have volumes ranging between 550 and 1,600 gallons (IT, 1990b). The paint on the ceiling and the tanks was chipping off, and the paint chips were contributing to the debris on the floor. Other debris included dust and glass. The walls of the room contained graffiti. According to Goodwill, a mattress was once located in the northern section of the building, but PRC did not see the mattress.

PRC observed a row of 22 multicolored tanks along the north wall of Building 12 (see photographs 83, 84, and 85). The bottom portions of the tanks were painted blue, white, yellow, or green. PRC observed that materials had leaked from at least two of these tanks to the floor. PRC observed another tank located near a doorway through the west wall in the southwest corner of the room. PRC also observed one 30-gallon, rusty drum. Information provided to PRC after the VSI indicates that Valspar used 24 tanks on the third floor of Building 12. Twenty-three of

these tanks have volumes ranging between 900 and 1,600 gallons. The other tank has a volume of 30 gallons and probably corresponds to the drum that PRC observed (IT, 1990b).

2.2.3.5 Fourth Floor

PRC observed only one tank on the fourth floor of Buildings 7, 8, and 12. It was located in Building 12. Information provided to PRC after the VSI indicates that Valspar used only one tank on the fourth floor of these three buildings. The tank has a volume of 800 gallons (IT, 1990b).

PRC observed holes in the floor of Building 7 that may have once been used to pipe paint mixtures from one level of the building to another. PRC also observed three large ball mills on this floor of Building 7. Based on its inspections of other paint companies, PRC believes these ball mills would have been used to grind the pigments in Valspar's paint formulations.

The fourth floor of Building 8 appears to have been used as a laboratory (see photograph 93). Counters were laid out throughout a series of rooms in the building. The glass in one door had the words "Chemical Lab" painted on it. The ceiling and top several feet of the walls in one of the rooms in Building 8 contained smoke damage. Goodwill stated that vandals had probably burned the coatings from wires in order to collect the copper for its scrap value.

PRC observed one tank along the south wall on the fourth floor of Building 12 (see photographs 91 and 92). PRC did not observe any standing liquids in the tank. Information provided to PRC after the VSI indicates that Valspar may have used the 800-gallon tank as part of a caustic cleaning system (IT, 1990b). PRC observed holes in the floor of Building 12 that may have once been used to pipe paint mixtures from one level of the building to another. The floor in all three buildings was covered with debris, including dust, dried paint, and deteriorated piping insulation.

2.2.3.6 Fifth Floor

PRC observed four tanks located in the southeast corner of the fifth floor of Building 7 (see photographs 100 and 101). PRC also observed one overturned tank located against the north wall of the building near a weigh scale. Information provided to PRC after the VSI indicates that Valspar used four tanks on the fifth floor of Building 7. The identified tanks include three of the tanks located against the north wall and the overturned tank. The identified tanks have volumes of 500 gallons each (IT, 1990b; Kinsey Consulting, Inc. (Kinsey), 1987). One tank located in the southeast corner is not accounted for in this information. Additionally, PRC

observed a blue, rectangular tank about 15 feet long, 5 feet high, and 3 feet wide that was labeled "Dust Suppressor" against the north wall of the building. The floor of the building is covered with debris, including dust, paint chips, and dried paint.

The fifth floor of Building 8 was empty except for one vat about 3 feet in diameter and several feet deep located in its southwest corner (see photographs 102 and 103). The vat contained chairs and was not discussed in information provided to PRC after the VSI (IT, 1990b). The building contained scattered debris, but the floor was relatively clean in comparison to the remainder of the buildings on the fifth floor. Graffiti was painted on the walls of this building.

The fifth floor of Building 12 contained one open drum of a yellow, resinous material (see photographs 94, 95, 96, 98, and 99). It appeared that the contents of the drum had leaked to the floor below it. PRC also observed an overturned bucket of orange, resinous material that appeared to have spilled from the bucket to the floor. The floor was covered with dust and debris, and many of the building's lighting fixtures had fallen partially or completely from the ceiling. PRC observed three tanks on the fifth floor of Building 12, and information provided to PRC after the VSI also indicates that Valspar used three tanks on the fifth floor of Building 12. The tanks each have a volume of 500 gallons (IT, 1990b). PRC also observed a thick, orange, resinous material leaking from a pipe near the south wall. The material leaking from the pipe had formed a puddle on the floor beneath its opening. PRC observed a blue tank about 15 feet long, 5 feet high, and 3 feet wide that was labeled "Dust Suppressor" located near the leaking pipe against the south wall of the building. A stairway leading down into Building 14 from Building 12 was also observed. The stairway was not completely intact because of the fire that destroyed Building 14 in 1990.

2.2.3.7 Sixth Floor

The sixth floor of Buildings 7 and 8 are empty except for small, stagnant pools of standing liquid containing what appeared to be green algae (see photograph 107). Debris is scattered about the floor of both rooms, including paint chips and piping insulation.

The sixth floor of Building 12 was damaged by a fire (see photograph 104). PRC found no discussion of a fire in this building in any documents reviewed during the PA. The sixth floor appears to have contained an office space. PRC observed the remains of filing cabinets and desks. One empty drum was found in this room. Stairs lead from the sixth floor of Building 12 to a penthouse above the building. The penthouse appears to have been a residence, and it was equipped with a kitchen, several rooms, and a restroom. During the VSI, Goodwill speculated that the penthouse was used by Valspar executives visiting Chicago for meetings.

2.2.3.8 Seventh Floor

The seventh floor of Buildings 7 and 8 are empty except for debris scattered about the floor, including piping insulation. This floor was relatively clean compared to many of the other floors of these buildings.

2.2.4 Chemical and Raw Material Storage Areas

Valspar stored various chemicals and raw materials during its period of operation at the facility in Buildings 1, 2, 3-B, 4, 5-A, 5-B, 5-C, 5-E, 6, 7, 7-C, 8, 10, 10-A, 11, 12, 13, 14, 15-A, 15-B, and two tank farms. Most of these buildings have been detailed above. Buildings 1 and 2, 5-E, 7-C, the North Tank Farm, and the South Tank Farm are described in this subsection.

Buildings 1 and 2 form a single, two-story building complex (see photographs 1, 2, 3, 4, 43, 44, and 45). The complex is located near the southeast corner of the facility. Three rooms form the interior of each level of the complex, and one stairway leads from the first to the second floors in the western room. The floors of the six rooms in this complex were littered with trash, including beverage containers and magazines. PRC observed a tacky, black substance in the first floor's eastern room. In the first floor's western room, PRC observed three plastic bags full of used PPE that had been ripped open. One tank was located in this room. Information provided to PRC after the VSI does not identify this tank (IT, 1990b). On the second floor of the buildings, PRC observed approximately 20 feet of pipe covered with piping insulation in the western room. Several dark, wet areas were observed in the middle room, which contains a relatively smaller, walled-off room with a heavy, sliding door. PRC observed several, empty, metal racks in this room. The paint on the walls and ceiling throughout the entire building was peeling and had contributed to the litter on the floors. PRC determined that Buildings 1 and 2 have a total floor space of approximately 5,600 square feet (see Table 1). PRC observed a small storage shed south of Buildings 1 and 2. The shed's floor was covered with small, empty paint cans and other, miscellaneous scrap metal.

Building 5-E is a two-story building located southwest of Building 5-C. The first floor contained standing liquids and smelled slightly of solvents. PRC observed light-colored, resinous materials on the first floor. The second floor of the building was covered with dirt and broken, porcelain toilets, although this building did not appear to have been used as a restroom. PRC determined that Building 5-E has a total floor space of approximately 400 square feet (see Table 1).

Building 7-C is referred to in the information obtained during the PA as the "Cooper's Pit" (see photographs 35, 36, 37, 38, and 39). This one-story building has a ceiling that is perhaps 30 feet high. The floor of the building appeared to be dirt, and PRC observed at least three pits that Goodwill described as tank openings. PRC observed standing liquid as high as the openings in two of these pits. PRC also observed wooden plywood sheeting laid on the floor at intervals. Goodwill stated that the plywood sheeting covered tank openings to prevent accidents. PRC did not lift the plywood sheeting to observe any of the tanks for safety reasons. Information provided to PRC after the VSI indicate that the Cooper's Pit contains 15 tanks ranging in volume between 4,050 and 25,000 gallons. The tanks in the Cooper's Pit were used to store solvents used in paint production (IT, 1990b). Articles of clothing were strewn about the Cooper's Pit, and the floor of the building was covered with dust, chipped paint, paint spills, and hundreds of drum bungs. The walls of the building were covered with peeling paint and what appeared to be splashes and streaks of dark substances. An aboveground piping raceway located outside the west end of the Cooper's Pit was leaking thick, yellow and orange, resinous material onto the ground. The ground below the leak was covered with several inches of a jelly-like, yellow substance with a mottled, yellow-brown, hard skin. PRC determined that the Cooper's Pit has a floor space of approximately 3,500 square feet (see Table 1).

Two underground tank farms are located along a thin, north-south trending strip of land beginning at the southwest corner of the facility. The strip of land abuts Armstrong Containers on that facility's western end. The tank farms are divided into a North Tank Farm and a South Tank Farm. Piping raceways emanating from both tank farms appeared to lead to the facility and to Armstrong Containers, located to the south of the facility. Valspar stated during the VSI that the pipelines to Armstrong Containers were cut off when Valspar used the facility. In the main tank areas, the soil was covered with a thick growth of vegetation. However, underneath the pipelines in both tank farms, PRC observed stressed vegetation. No soil discoloration was noted.

The North Tank Farm appears to be diked with concrete walls (see photographs 30 and 31). The ground making up the top of the tank farm is located at the top of these walls, and PRC accessed the tank farm by climbing a ladder about 5 feet to the top of the southern wall. Accessways and fill pipes into the tanks can be seen throughout the North Tank Farm. Information provided to PRC after the VSI indicates that the North Tank Farm contains 15 tanks ranging in volume between 2,500 and 8,000 gallons, with 12 of the tanks having capacities of 8,000 gallons. These tanks were used to store solvents when Valspar used the facility (IT, 1990b). PRC determined that the North Tank Farm contains an area of approximately 4,400 square feet (see Table 1).

The South Tank Farm appears to be diked with concrete walls along its north and west ends (see photograph 29). The foundation of Armstrong Containers abuts its east end, and the south end does not appear to be contained. PRC accessed the South Tank Farm by climbing down a ladder on the southern end of the North Tank Farm about 5 feet to the soils above the tank farm. Accessways and fill pipes to tanks can be seen throughout the South Tank Farm. Information provided to PRC after the VSI indicates that the South Tank Farm contains 17 tanks with volumes of 8,000 gallons. One other tank contains a volume of 10,000 gallons. These tanks were used to store solvents, paint-related oils, and fuel oils during the time that Valspar used the facility (IT, 1990b). PRC determined that the South Tank Farm contains an area of approximately 7,500 square feet.

2.2.5 Other Areas

PRC observed several other areas during the VSI. These areas were not addressed specifically in the documents obtained during the PA. They consist of Buildings 3-F, 7-B, 5-D, 9, 9-A, 9-B, 9-C, 13-A, 13-B, 15, and 25; a spill area east of Building 25; a location that may have once contained a transformer; the railroad spurs; and many piping raceways.

Building 3-F is a two-story building located south of Building 3-B (see photographs 26, 27, and 28) (Armstrong Paint, date unknown). However, PRC only observed one story in this building because PRC did not locate a stairway into the second floor. Near the north end of the building, PRC observed electrical equipment, including at least one transformer. Oily material was pooled around some of this equipment, and the floor was quite sticky. PRC observed at least two bags of used PPE in Building 3-F. Goodwill stated that it believed this building was used as a command base by cleanup personnel during past removal activities at the facility. These removal activities are discussed in subsections 2.4 and 2.5 of this report. The building's interior was trenched along all four walls. The trench was about 6 inches deep and 4 to 6 inches wide. A sump located near the north end of the building appeared to be connected to the trench network. The sump is approximately 2 feet in diameter and contained standing liquid about 2 feet below floor level. Because of the liquid's presence, PRC could not determine the depth of the sump. PRC noted deteriorated piping insulation in this building, and one small bucket near the middle of the building was resting on its side. The contents of the bucket consisted of a black, oily material that had spread in a small puddle about 3 feet in diameter around the bucket. PRC determined that each floor of Building 3-F contains an area of approximately 2,500 square feet (see Table 1).

Building 5-D is a small, one-story building located west of Building 5-C (see photographs 53 and 54). PRC observed one drum inside and one drum outside this building. Using a PID, PRC determined that both drums contain volatile constituents. Both drums were slightly rusted, and neither drum was sealed. Debris was observed inside and outside this building. PRC determined that this building contains a floor space of approximately 200 square feet (see Table 1).

Building 7-B is a one-story building located north of the Cooper's Pit (Building 7-C) (see photograph 40). Maps obtained after the VSI indicate that this building was formerly called the "Cooper's Shop" (Armstrong Paint, date unknown). This building contained three empty drums, and PRC observed one pair of rubber PPE outerboots in this building. The floor contains a shallow, east-west trench that was empty except for dust and powders. PRC observed peeling paint and deteriorated piping insulation in this building. PRC determined that this building contains an area of approximately 1,100 square feet (see Table 1).

The complex of Buildings 9, 9-A, 9-B, and 9-C appear to have been used as the source of power for the facility when it was operational (see photographs 55, 56, 57, and 58) (Armstrong Paint, date unknown). Building 9-A and 9-C are two-story buildings, and the other two buildings are one-story structures. The first floors of these buildings all contain electrical equipment in various stages of disrepair. PRC observed at least two boilers, one engine, and several control panels that had been partially torn from the wall. The engine was resting in a brown liquid with oily sheens on its surface. PRC observed pools of black, oily materials near the west end and in the center of Building 9-C and oily stains on the walls and floors in all the buildings. PRC observed one empty drum in Building 9-A. The floor of every building was covered with debris and rubble piled to 1 foot high in places. The rubble consisted of concrete, metal, and wood scraps, white powders, dust, and chipped paint from the walls and ceiling. PRC also observed deteriorated piping insulation in these buildings. PRC observed two sealed, 55-gallon drums in Building 9. The ceilings in Buildings 9 and 9-C were quite high, approximately 30 to 50 feet above the floor level in places. Information obtained by PRC after the VSI indicate that three underground storage tanks containing fuel oil for the boilers and engines are located in Building 9-C. Two of these tanks have a capacity of 25,000 gallons; the third has a capacity of 10,000 gallons (IT, 1990b). PRC did not locate the accessways or fill pipes to these tanks during the VSI. PRC determined that these four buildings have a combined floor space of about 5,400 square feet on the first floor (see Table 1).

The second floors of Buildings 9-A and 9-C are connected to the second floor of Building 7 and appeared to have been used for the same operations that occurred in that building (see Section 2.2.3.3).

PRC did not observe Buildings 13-A and 13-B during the VSI, because these buildings were burned in a 1990 fire (see photographs 81, 86, 97, and 105). Both buildings were two-story structures before the fire (Armstrong Paint, date unknown). Fire damage was extensive, and PRC did not enter these buildings for safety reasons. Goodwill and Valspar both indicated during the VSI that this portion of the facility was used as office space. According to the maps obtained after the VSI, these buildings contained storage and office rooms (Armstrong Paint, date unknown). PRC determined that Buildings 13-A and 13-B had a combined floor space of approximately 5,200 square feet (see Table 1).

Building 15 is a one-story building located in the south central portion of the facility east of a railroad spur cutting through the facility (see photographs 16, 17, and 18). The building is entered by climbing a staircase about 5 feet high. The building consists of three bays. During the VSI, Valspar stated that they were probably originally used to cook varnish. The floor of the building was littered with debris, including several inches of dust and various metal scraps. Paint was peeling off the walls and ceiling, and a dark substance was spattered on the east wall of the building. Piping insulation was observed on the floor and hanging from pipes on the ceiling. PRC observed three tanks in this building, but information provided to PRC after the VSI does not indicate the presence of any tanks (IT, 1990b). One of the tanks PRC observed was partially filled with standing liquid. The ceiling in this building appeared to be about 20 feet above the floor. PRC determined that this building has a floor space of about 900 square feet (see Table 1). An east-west tunnel is located beneath the southern end of Building 15. Entrance to the tunnel is gained by climbing down a staircase about 3 feet. The tunnel runs along the length of the building, and it is about 3 to 4 feet wide, 6 feet high, and 30 to 40 feet long. PRC observed deteriorated piping insulation in the tunnel, and damp areas and debris were observed on the floor.

Building 25 is a one-story building located near the southeastern corner of the facility (see photographs 6 and 7). The building was not present at the facility when Armstrong Paint prepared engineering drawings of the facility between the 1940s and the 1960s (Armstrong Paint, date unknown). However, a 1971 survey of the facility includes this building (Silander & Son, 1971). This room is empty except for several storage racks and wooden pallets supported by metal legs. At least one of the storage racks contained an oily material tentatively identified by Valspar during the VSI as linseed oil. The floor contained debris, including chipped paint and oily stains. Based on the layout of the room, Valspar stated during the VSI that it believed the room was a drum storage area. PRC could not determine the contents of any drums that may have been stored in this building. PRC determined that this building has a floor space of about 820 square feet (see Table 1). PRC observed two, heavily deteriorated, paperboard drums on the

south end of Building 25. These drums were leaking a semisolid, milky white substance onto the concrete pad, but the material was so viscous that its skin seemed to be containing any liquid material.

PRC observed a spill area east of Building 25 (see photograph 5). This area consists of a concrete pad heavily stained with a black substance that may be paint. The spills, which cover an estimated area of at least 75 square feet, appear to have run from their sources into a drain that is located near the middle of the concrete pad. PRC could not determine the location of this drain's outfall.

According to a facility survey performed in 1971, the area south of Building 15-B contained a transformer (Silander & Son, 1971). PRC observed a fenced-in area near this location, and it appears that some sort of equipment is indeed located here, but PRC did not enter the fenced-in area to investigate.

Two railroad spurs pass through the facility. Goodwill stated during the VSI that these spurs may have been used to unload raw materials or to load product. PRC walked along most of the lengths of both spurs and observed various debris scattered along both lengths of railroad track. One engine similar to the engines observed in Buildings 8 and 9-B was observed along the spur east of Building 9. Other areas along the spurs contained white powders, steel scraps, and stressed vegetation. PRC observed one pipe leaking onto the ground near the railroad spur east of Building 3-B (see photographs 13, 15, and 106).

PRC observed piping raceways throughout the facility. Some of the raceways were underground and were observed through accessways along the railroad spurs (see photograph 12). Other raceways ran along ceilings and walls throughout the facility. Some raceways contained pipes that were leaking materials onto the floors of the buildings. Others contained pipes that have been cut open and probably drained. These pipes were not leaking materials.

2.3 FACILITY OPERATIONS

This subsection discusses facility operations. Because the use of the facility over its entire history is unknown, this section is divided into three separate discussions. The first covers operations at the facility prior to 1976. The second covers operations during the time that Valspar produced paint at the facility between 1976 and 1984. The third covers the current status of the facility.

3.0 SOLID WASTE MANAGEMENT UNITS

Valspar's RCRA Part A permit application filed with IEPA indicates that two "Storage Areas" were intended for the storage of hazardous waste. One storage area was located north of Building 3; the other storage area was located west of Building 3-F (Valspar, 1980c). During its file review, PRC did not locate any evidence that these two areas were closed by a licensed engineer.

PRC contacted Rapps, the engineering firm that performed closure of the facility. Daniel Flynn was the Rapps engineer that closed the facility. He could not remember with any certainty the areas that were closed, but he did remember closing one drum storage area and one waste storage tank. From a series of photographs taken in 1985 during closure activities, and from a description that Mr. Flynn provided over the telephone, PRC believes that the Mr. Flynn closed the concrete pad south of Buildings 1 and 2 and a storage tank at an unidentified location. PRC provided Mr. Flynn with a map of the facility and requested that he mark the areas of the facility that contained the drum and tank storage areas that underwent closure. Mr. Flynn did not mark the waste storage areas because he could not identify those areas. Mr. Flynn informed PRC that it should request that Valspar provide any maps of the areas that underwent closure (Rapps, 1985; 1991).

Valspar provided PRC with the copy of a RCRA Part A permit application included in the Settlement Proposal (IT, 1990b). Valspar's RCRA Part A permit application includes a facility map that identifies the container storage area at the location closed by Rapps. However, PRC did not locate this map during its file reviews at EPA and IEPA.

Based on the above information, PRC identified four hazardous waste storage units. Three drum storage areas were located outdoors at the facility; one was located north of Building 3; one was located west of Building 3-F; and one was located south of Buildings 1 and 2. One tank storage area consisting of one hazardous waste storage tank was located inside one of the facility buildings. Because of the overall condition of the facility, PRC could not specifically locate or identify these units. According to Valspar's Part A permit application, Valspar was permitted to store D001, D002, D008, and F003 wastes in these units (Valspar, 1980c).

Mr. Flynn indicated that there were no signs of release from the units that it did close (Rapps, 1985; 1991). However, Mr. Flynn did not view these areas until March 1985, approximately 5 months after Valspar vacated the facility. Mr. Flynn made no mention of closing the two drum storage areas identified in the original RCRA Part A permit application

filed with IEPA (Rapps, 1991). Therefore, PRC believes that these two drum storage areas may have been used and not properly closed under RCRA.

4.0 AREAS OF CONCERN

During the VSI, PRC was not able to clearly locate any SWMUs. Therefore, a number of units that may have been SWMUs when the facility was active are addressed as AOCs. Additionally, hazardous materials stored on site may be considered abandoned and therefore hazardous waste. Storage units containing these materials may be considered SWMUs, but they are addressed as AOCs in this PA/VSI report because PRC could not determine the contents of the storage units. A number of other general AOCs were also identified during the VSI.

Each AOC is described as fully as possible. Because only limited, general information about past practices was provided during the VSI, PRC can only describe what the inspection team observed. Valspar and Goodwill representatives could not fully identify or describe several areas seen during the inspection. This section describes the AOCs noted during the VSI and attempts to correlate these AOCs with past sampling efforts where possible.

4.1 CONTAINERS

PRC observed at least 37 drums and other containers during the VSI. PRC used a photoionization detector (PID) to determine whether these containers held volatile constituents. The PID sensor was placed in open bungs or near the seam between the lid and container where possible. Based on readings taken with the PID, PRC believes that some of these containers may contain volatile and possibly hazardous constituents. Containers seen during the VSI ranged in size from 5-gallon pails to 55-gallon drums and contained liquid, solid, and semisolid materials. Most containers were not labelled. In the few cases that PRC could estimate the containers' contents from labels, PRC has indicated this in the narrative. PRC observed empty drums and containers in the shed south of Buildings 1 and 2; in Buildings 5, 5-C, 7-B, and 9-A; and on the sixth floor of Building 12. A summary of the containers observed at the facility during the VSI is provided in Table 5.

Most of the containers containing liquids appeared to be mostly full. Most of the containers containing solids were about half full. According to information provided to PRC after the VSI, all containers holding hazardous materials were removed from the facility during response actions initiated by the 4(q) Notice. Using a PID, PRC detected volatile organic vapors as high as 5,000 ppm in some containers. Neither Goodwill nor Valspar responded to questions about the contents or origination of the containers (Bell, Boyd & Lloyd, 1991b; Valspar, 1991).

TABLE 5
CONTAINERS OBSERVED DURING THE VSI[a]

Location	Floor	Liquid with Volatile Constituents[b]	Liquid without Volatile Constituents[b]	Solid with Volatile Constituents[b]	Solid without Volatile Constituents[b]	Contents Not Observed
Building 5-D	–	1	0	0	0	0
Building 6-A	1	0	0	0	2	0
Building 7	1	0	0	0	1[c]	0
Building 8	1	3	3	0	0	1
Building 8 (Generator Room)	1	2	4	0	0	0
Building 9	–	0	0	0	0	2
Building 10	1	1	0	0	0	0
Building 12	5	0	0	0	2	0
Building 13	Basement	0	0	0	0	1
Building 14-A	Basement	0	0	0	0	11
Outside Building 5-D	–	0	0	1	0	0
Outside Building 25	–	0	0	0	2	0
Stairwells	–	0	0	0	Unknown[d]	0

Notes:

[a] Number indicates the quantity of containers storing identified materials. Containers range in size from 5-gallon pails to 55-gallon drums.

[b] If the PID detected organic vapors at greater than background levels, PRC assumed the container holds volatile constituents.

[c] This container appeared to contain latex, but PRC did not investigate closely for safety reasons.

[d] PRC observed 15 containers on stairwells, but PRC did not observe each stairwell at the facility.

Buildings or areas containing containers are not designated as SWMUs because container contents are unknown. Because containers may be holding materials with hazardous constituents, they are considered AOCs.

PRC could not correlate any of the containers it viewed during the VSI with any containers that have been sampled previously. According to the Settlement Proposal, any containers found to hold hazardous substances were physically removed or were to be physically removed from the facility during response actions initiated by the 4(q) Notice (IT, 1990b).

4.1.1 Containers With Liquid Contents

During the VSI, PRC identified 14 containers holding liquids. PRC also identified 15 tightly sealed containers and other containers that could not be accessed for safety reasons. Because PRC did not attempt to open or access these containers, PRC did not determine the physical states of those containers' contents. Containers with liquid and unknown contents were observed in Building 5-D, the first floor of Building 8, the generator room on the first floor of Building 8, Building 9, the first floor of Building 10-A, the basement of Building 13, and the basement of Building 14-A.

PRC observed one 55-gallon drum containing a liquid in Building 5-D. The drum was partially covered with the drum lid, and PRC noted a slight solvent odor in the building upon entry. PRC moved the drum lid slightly when attempting to access the drum's headspace with the PID. The PID detected over 5,000 ppm volatile vapors in the headspace. PRC quickly replaced the drum lid flush over the drum and left the building.

PRC entered Building 8 through a doorway near the railroad spur between Buildings 8 and 9-C. PRC observed a total of seven 55-gallon drums in the first floor of Building 8. One drum was lying on its side near the entrance to the room. In order to avoid contact with a white powder on the floor, PRC avoided this drum. Five other drums were standing upright further into the building, but still near the entrance. Headspace readings were taken in these drums with the PID. The PID did not detect any volatile vapors in three drums, it detected over 5 ppm in one drum, and it detected over 600 ppm in the fifth drum. PRC observed the seventh drum standing upright along the southeast wall of Building 8. This drum was standing in a small puddle of a dark liquid. The PID detected 5 ppm volatile vapors in the headspace of this drum.

PRC observed six 55-gallon drums in a room located in Building 8. The room, located in the northern part of the building's first floor, appeared to be an electrical generator room. Ambient air in the generator room contained between 1 and 2 ppm of volatile vapors based on

PID readings obtained there. Four drums were located against the north wall of the building. Of the four drums, the PID did not detect volatile vapors over background levels in three drums, but it detected over 16 ppm in one drum located near the northeast corner of the room. Two drums were located in the southwest corner of the room. Of the two drums, the PID did not detect volatile vapors over background levels in one drum, but it detected approximately 5 ppm in the other.

PRC observed two 55-gallon drums in Building 9, which appeared to be an electrical generator room. The contents of these drums are unknown, and because they were tightly sealed, PRC could not take headspace PID readings.

PRC observed one 55-gallon drum in the first floor of Building 10. The PID detected approximately 3 ppm volatile vapors in the headspace.

PRC observed one 55-gallon drum in the basement of Building 13. The drum was tightly sealed. Its contents are unknown, and a PID reading was not taken because PRC could not access the drum's headspace.

PRC observed two 40-gallon, steel drums, three 30-gallon, cardboard containers, and six 5-gallon pails (volumes are approximate) in a small room in the basement of Building 14-A. The room appeared to have been used as a maintenance supply room. The building was dark, and because the floor of this room was covered with several inches of liquid, PRC did not enter it. The contents of the containers could not be determined. PRC took a picture of the room in an attempt to determine the wording on the container labels. Labels on the steel drums indicate that the contents of the drums may have been designed for maintenance and sanitation purposes. Labels on the cardboard containers were deteriorated and could not be read from the picture. Labels on the buckets indicate that the contents are probably non-ammoniated strippers and other floor conditioning products.

4.1.2 Containers With Solid or Semisolid Contents

During the VSI, PRC observed eight drums and containers with solid or semisolid contents, and at least 15 5-gallon pails on the stairwells in the production buildings. When PRC could access the containers' headspaces, PRC used a PID to determine the presence of volatile vapors. Based on the PID readings, PRC believes that some of these containers may hold volatile and possibly hazardous constituents. PRC observed containers with solid or semisolid contents outside Building 5-D; on the first floor of Building 6-A, the first floor of Building 7, the fifth

floor of Building 12, outside Building 25, and in several stairwells in the manufacturing buildings.

PRC observed one 55-gallon drum outside Building 5-D that contained an unidentified, dark, solid material. The drum was not sealed. Using a PID, PRC determined that the headspace of the drum contained over 26 ppm volatile vapors.

PRC observed two small, overturned buckets in Building 6-A. The buckets were oozing orange-yellow, resinous contents onto the floor of the building. PRC did not detect any volatile vapors near the buckets' contents.

PRC observed one 55-gallon metal drum of a semisolid, light-colored material that resembled latex. The drum was lying on its side, and it appeared that a small amount of spillage from the drum had occurred. Because of heavy, oily staining on the floor surrounding the drum, PRC did not approach the drum or take PID readings at the drum opening.

PRC observed one 55-gallon, metal drum and one 5-gallon pail of unidentified, semisolid substances on the fifth floor of Building 12. The yellow-orange, viscous materials in the drum and pail resembled resins. Both containers were open, and their contents had hardened. Spills of the material in the drum were seen around the base of the drum. The pail was resting on its side and the material inside had oozed onto the floor. PID readings taken near the bucket and pail did not indicate the presence of any volatile vapors.

PRC observed two heavily deteriorated, 30-gallon, fiber containers outdoors on the south side of Building 25. One of the containers was lying on its side, and the other was upright. The bottom of the upright container was bulging, and the light-colored contents of both containers had partially oozed onto the ground. PID readings taken over the drums' contents did not indicate the presence of volatile vapors.

PRC observed about 15 5-gallon pails on two stairwells in the manufacturing buildings. The pails contained grey powder. Signs located near the pails indicated that the pails contain "Foam Powder." Goodwill speculated during the VSI that these pails contain fire-fighting powder of some sort. PRC could not determine the contents of the pails based on the labels.

4.2 TANKS

Based on the VSI and past facility characterizations (Waste Reduction, 1985; IT, 1990b), PRC believes over 300 tanks currently exist at the facility. Many of these tanks currently contain

or formerly contained hazardous constituents. For the purpose of clarity, these tanks have been grouped into three categories: (1) underground storage tanks; (2) aboveground, outdoor storage tanks; and (3) aboveground, indoor storage tanks. All tanks previously identified at the facility during response actions initiated by the 4(q) Notice are summarized in Attachment G. Where PRC could determine that a tank contained any materials, PRC could not determine the nature or quantity of its contents, so this information is not provided.

4.2.1 Underground Storage Tanks

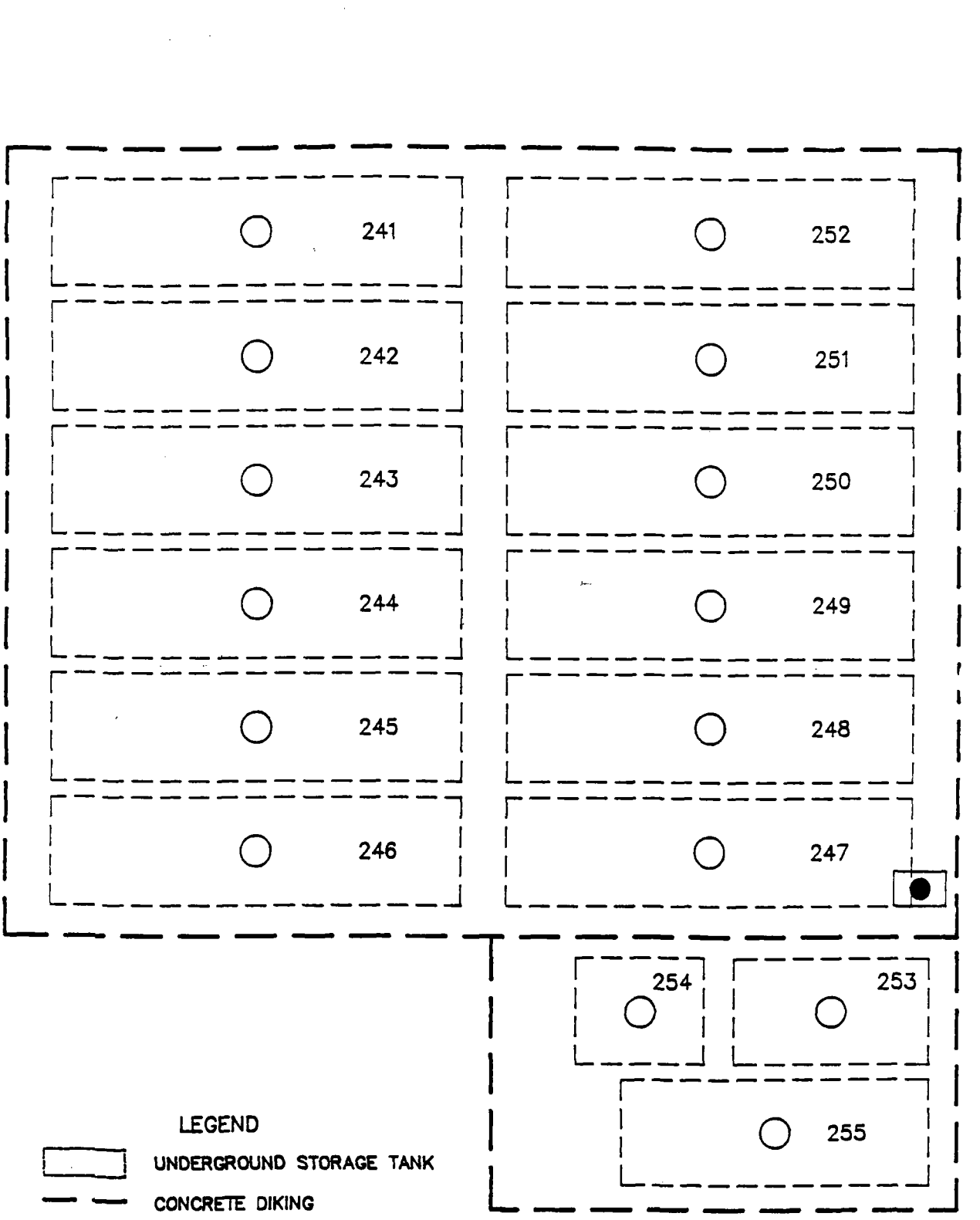
PRC identified five areas containing underground storage tanks. These areas are the North Tank Farm, the South Tank Farm, the Cooper's Pit (Building 7-C), Building 9-C, and Building 11. Based on other information gathered during the PA, PRC identified several areas that may potentially contain underground storage tanks.

The underground storage tanks are designated as AOCs because the tank contents are unknown and may contain hazardous constituents; the integrity of the tanks is unknown; and ground water may be entering the tanks (IEPA, 1987b), implying that the past contents of the tanks may have entered the ground water.

4.2.1.1 North Tank Farm

The North Tank Farm contains 15 underground storage tanks. The locations of the tanks in the North Tank Farm are shown in Figure 3. A summary of the tanks in the North Tank Farm is presented in Table G-1 of Attachment G. Twelve of the tanks have volumes of 8,000 gallons; the other three tanks have volumes less than or equal to 6,000 gallons. Because the North Tank Farm is surrounded by concrete walls about 5 feet high and contains a sump to drain the soils around the tanks, Valspar believes the tanks are enclosed within a concrete vault (IT, 1990b). The integrity of any concrete beneath the tanks, if it exists, is unknown. PRC did not locate any record of borings into the North Tank Farm during the PA and thus could not confirm that concrete underlies the tanks.

Based on information gathered during the PA, PRC attempted to identify the past contents of the tanks in the North Tank Farm. According to the Valspar's May 1990 Closure Plan, three of the 15 tanks in the North Tank Farm require closure, because they were found to contain hazardous waste material in 1985 during response actions initiated by the 4(q) Notice. Tanks containing butyl acetate (D001), butanol (U031), and mineral spirits (D001) were emptied and cleaned. The other 12 tanks were found to be empty (Waste Reduction, 1985). According to the Settlement Proposal, all 15 tanks are currently empty (IT, 1990b).



1330 SOUTH KILBOURN AVENUE
CHICAGO, ILLINOIS

FIGURE 3

NORTH TANK FARM

PRC ENVIRONMENTAL MANAGEMENT, INC.

SOURCE: IT, 1990b.

NOT TO SCALE

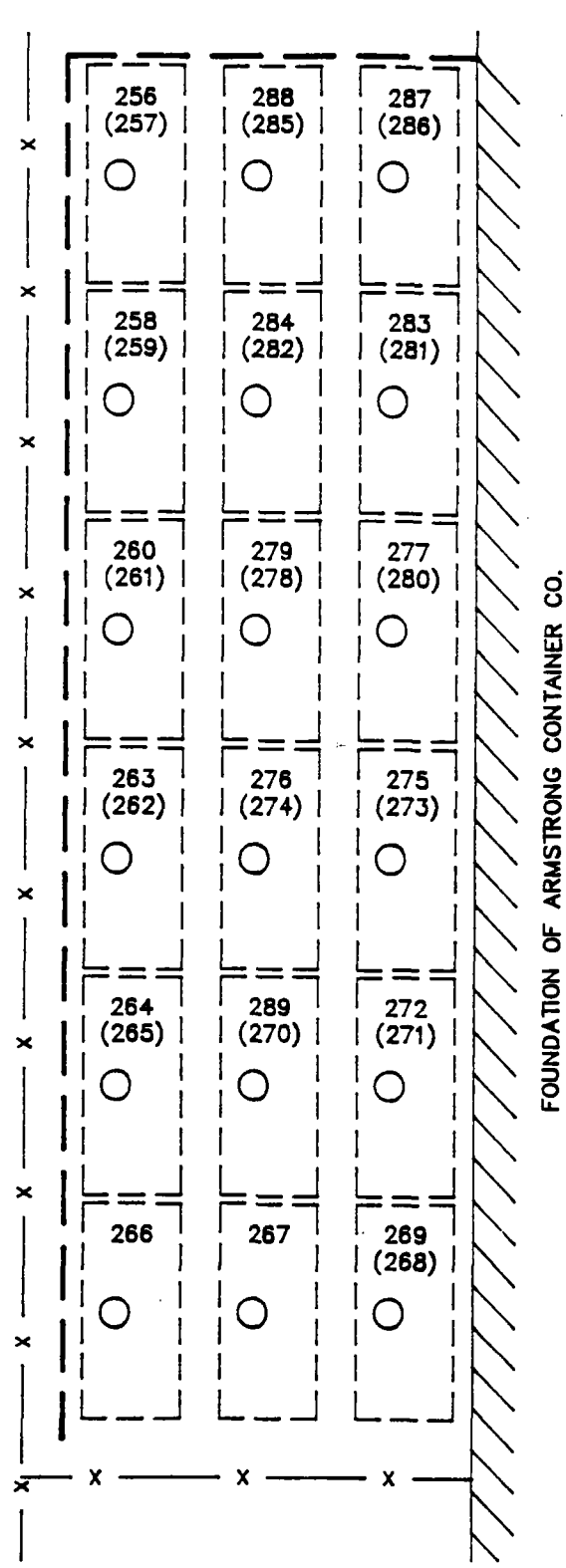
4.2.1.2 South Tank Farm

The South Tank Farm contains 18 underground storage tanks. The locations of the tanks in the South Tank Farm are shown in Figure 4. A summary of the tanks in the South Tank Farm is presented in Table G-2 of Attachment G. Seventeen of the tanks have volumes of 8,000 gallons; the other tank has a volume of 10,000 gallons. The South Tank Farm is surrounded by concrete walls on the north and west sides. The east side of the South Tank Farm is adjacent to the foundation of Armstrong Containers. This side of the South Tank Farm may also have a concrete wall along its length. During the VSI, PRC found no evidence that a wall exists at the southern end of the tank farm. The presence of a concrete pad beneath the tank farm could not be determined. Valspar believes that this tank farm is underlain by clay (IT, 1990a). PRC did not locate any record of borings into the South Tank Farm during the PA and thus could not confirm the presence of concrete or clay beneath the tanks.

Based on information gathered during the PA, PRC attempted to identify the past contents of the tanks in the South Tank Farm. According to the Valspar's May 1990 Closure Plan, 10 of the 18 tanks in the South Tank Farm require closure, because they were found to contain hazardous waste material in 1985 during response actions initiated by the 4(q) Notice. Tanks containing mineral spirits (D001) and an unknown solvent blend Valspar believes contains butanol, 2-butanone, ethylbenzene, mineral spirits, toluene, and xylene (D001) were emptied and cleaned. One tank was found to be empty (Waste Reduction, 1985). According to the Settlement Proposal, the remaining seven tanks contain various quantities of nonhazardous materials, possibly including fuel oil, mineral spirits, linseed oil, and varnishes (IT, 1990b).

4.2.1.3 The Cooper's Pit

The Cooper's Pit contains 15 underground storage tanks, 10 of which are actually located within the walls of Building 7-C (Waste Reduction, 1985). The locations of the tanks in the Cooper's Pit are shown in Figure 5. A summary of the tanks in the Cooper's Pit is presented in Table G-3 of Attachment G. The tanks range in volume between 4,050 and 25,000 gallons. Two of the tanks have volumes less than 5,000 gallons; seven have volumes between 5,000 and 10,000 gallons; and six have volumes greater than 10,000 gallons. The Cooper's Pit is surrounded by concrete walls on all sides, and borings into the soils in this area below the depths of the tanks have hit concrete (IT, 1990b). The integrity of the concrete beneath the tanks is unknown. PRC could not confirm that the concrete beneath the tanks is connected to the walls surrounding the Cooper's Pit.



LEGEND

UNDERGROUND STORAGE TANK

TANK ACCESSWAY

— x — FENCE

276 (274) EPA ID #

SOURCE: IT, 1990b.

NOT TO SCALE

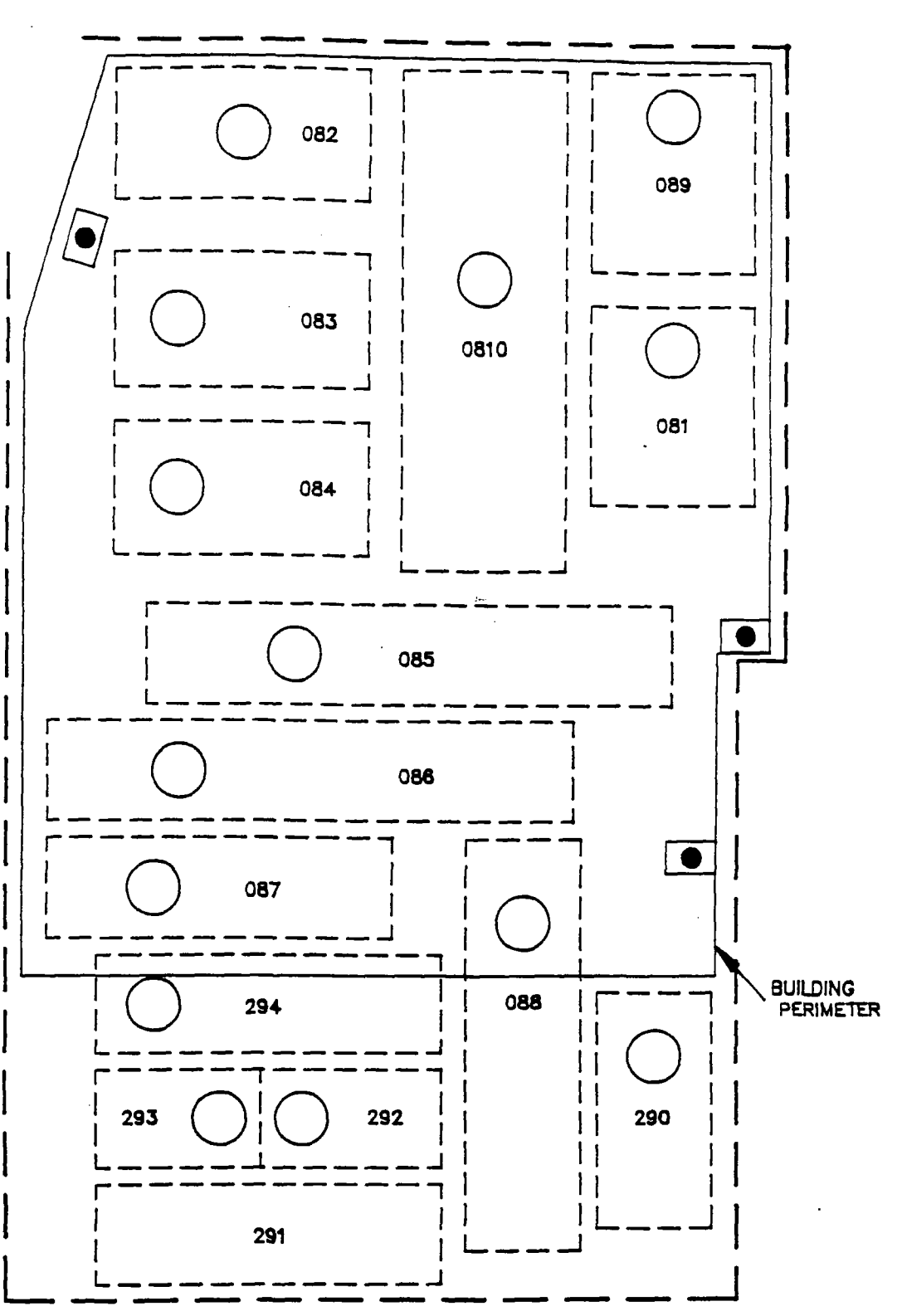
1330 SOUTH KILBOURN AVENUE
CHICAGO, ILLINOIS

FIGURE 4

SOUTH TANK FARM

PRC ENVIRONMENTAL MANAGEMENT, INC.

GOODSTNK.DWG - 09/08/91 - CFR



LEGEND

- UNDERGROUND STORAGE TANK
- CONCRETE DIKING
- SUMP
- 036 EPA ID #
- TANK ACCESSWAY

SOURCE: IT, 1990b.

NOT TO SCALE

1330 SOUTH KILBOURN AVENUE
CHICAGO, ILLINOIS

FIGURE 5

COOPER'S PIT UNDERGROUND TANK FARM

MRC ENVIRONMENTAL MANAGEMENT, INC.

Based on information gathered during the PA, PRC attempted to identify the past contents of the tanks in the Cooper's Pit. According to the Valspar's May 1990 Closure Plan, 10 of the 15 tanks in the Cooper's Pit require closure, because they were found to contain hazardous waste material in 1985 during response actions initiated by the 4(q) Notice. Tanks containing naphtha (D001), isopropanol (D001), 2-butanone (U159), water and cellosolve (D001), xylene (U239), water and kerosene (D001), and a solvent blend that Valspar believes contains butanol, 2-butanone, ethylbenzene, mineral spirits, toluene, and xylene (D001) were emptied and cleaned. One tank was found to be empty (Waste Reduction, 1985). According to the Settlement Proposal, the remaining four tanks contain nonhazardous material, possibly including oil, texanol, water, toluene, and naphtha.

4.2.1.4 Building 9-C

PRC did not observe any underground storage tanks in Building 9-C. However, information gathered after the VSI indicates that three underground storage tanks exist beneath this building. PRC is uncertain about the location of these tanks and did not observe any accessways to them during the VSI. For these reasons, PRC is not providing a map of these tanks in this PA/VSI report. A summary of the underground storage tanks in Building 9-C that have been previously identified is presented in Table G-4 of Attachment G. These tanks contain fuel oil used in the engines and boilers in the facility. Valspar's May 1990 Closure Plan did not address any of these tanks, so PRC assumes that Valspar believes that these tanks do not require closure (IT, 1990a). According to Valspar, one 25,000-gallon tank is empty; the other 25,000-gallon tank contains 1,200 gallons of fuel oil; and the 10,000-gallon tank contains about 200 gallons of fuel oil (IT, 1990b).

4.2.1.5 Basement of Building 11

The basement of Building 11 contains seven tanks Valspar classified as underground storage tanks (Waste Reduction, 1985). However, the Settlement Proposal indicates that only three underground storage tanks are located beneath Building 11 (IT, 1990b). Because of the uncertainty of tank numbers and locations, PRC is not providing a map of these tanks in this PA/VSI report. A summary of the three tanks that have been previously identified is presented in Table G-5 of Attachment G. PRC observed parts of three tanks behind a wall in the basement of Building 11. These tanks were partially covered with soil. PRC could not see beyond these three tanks. Because PRC observed piping leading away from the tanks beyond PRC's field of vision, and because PRC observed that soil was sloped away from the three tanks that it did observe, PRC believes that more tanks may be located beneath Building 11. IEPA did not

inventory the three tanks that PRC observed during its inspections of the facility. The total number of underground tanks beneath Building 11 is unknown.

Based on information gathered during the PA, PRC attempted to identify the past contents of the tanks beneath Building 11. Valspar's May 1990 Closure Plan did not address any of these tanks, so PRC assumes that Valspar believes that these tanks do not require closure (IT, 1990a). According to Valspar, one 3,500-gallon tank contains a clear, viscous resin that is nonhazardous; another 3,500-gallon tank and one 7,000-gallon tank are empty or mostly empty, and contain a small quantity of an unknown, hard, solid material (Waste Reduction, 1985).

4.2.1.6 Areas Potentially Containing Underground Storage Tanks

During the VSI, Goodwill representatives stated that they believe an underground storage tank farm may exist in the area west of the Building 3 complex. This area corresponds to the former resin manufacturing buildings. PRC attempted to locate information about this alleged tank farm during the PA/VSI. Goodwill representatives stated that Goodwill is in possession of maps indicating these tanks near the west end of the facility. PRC obtained these maps from Goodwill through RERC, but the maps do not indicate the existence of any tank farm other than those addressed above. According to these maps, the only underground storage tank farms in existence at the facility are the North Tank Farm and the South Tank Farm (Armstrong Paint, 1944).

During the VSI, PRC attempted to locate the tank farm alleged by Goodwill to exist at the facility. The former resin production buildings were burned to the ground in 1982. The area has been graded with fill, and any underground storage tank accessways would have been covered with fill during the destruction of the fire-damaged buildings. PRC could only see the fill and a small area of the old buildings' foundations. Because underground storage tanks exist in the Cooper's Pit (Building 7-C), and because past operators stored materials in other underground storage tanks at the facility, PRC believes that underground storage tanks might have once been used to store resins or raw materials used to make resins in the former resin production area. This area corresponds to the west-central portion of the facility. IEPA has reportedly test-pitted the area, but PRC did not locate the results of the test-pitting during the PA.

During the VSI, PRC observed three pits inside the basement of Buildings 12 and one pit in the basement of Building 14. Goodwill stated during the VSI that some of these pits may be underground tanks. All of the pits were filled with liquid, and Goodwill stated that one of the pits is at least 10 to 15 feet deep. PRC believes that these pits may be underground storage tanks.

These pits may provide a possible route for contaminants to enter subsurface soils and possibly ground water.

4.2.2 Aboveground, Outdoor Storage Tanks

PRC identified two aboveground, outdoor storage tanks during the VSI. These tanks are steel, vertical, 20,000-gallon tanks located near the west-central portion of the facility. The tanks were beginning to rust, but they appeared to be sound. No secondary containment for these tanks was observed. During the VSI, Valspar representatives stated that Valspar believes the tanks were used to store solvents. PRC could not determine what types of solvents were stored in these tanks. Based on the constituents of solvent blends located in underground storage tanks at the facility, PRC believes that these tanks may have contained butanol, 2-butanone, ethylbenzene, mineral spirits, toluene, xylene, or other solvents. Inventories conducted by Waste Reduction and IT have indicated that these tanks were empty (Waste Reduction, 1985; IT, 1990b). The locations of these tanks is shown in Figure 2. Table G-6 in Attachment G summarizes the information known about the two tanks.

The aboveground, outdoor storage tanks are not considered SWMUs because Valspar alleges that only raw materials and product were left on site and all wastes removed. They are designated as AOCs because the tank contents are unknown and may contain hazardous constituents.

4.2.3 Aboveground, Indoor Storage Tanks

PRC identified approximately 250 aboveground, indoor storage tanks during the VSI. These tanks varied in size, shape, and condition, and were located throughout the plant in virtually every storage and production area. These tanks reportedly stored solvents, resins, latexes, and tars. This subsection describes the aboveground, indoor storage tanks observed by PRC during the VSI. Tanks are described by building and floor for the reader's convenience. PRC did not attempt to correlate each tank with specific activities, because the available information only provides an estimation of each tank's former use.

The aboveground, indoor storage tanks are not considered SWMUs because Valspar alleges that only raw materials and product were left on site and all wastes removed. They are designated as AOCs because the tank contents are unknown and may contain hazardous constituents. Also, PRC observed leaking, indoor storage tanks and associated pipelines during the VSI.

4.2.3.1 Building 3

PRC observed 11 tanks in Building 3. A summary of the tanks in Building 3 is provided in Table G-7 of Attachment G. These tanks range in volume between 2,000 and 6,000 gallons. Building 3 was once used as a resin storage area and was not used by Valspar (IT, 1990b). PRC was able to look inside the base of one of the tanks and found that it contained a thick, viscous, dark-colored substance. Based on the consistency and smell of the substance, Valspar stated that this tank probably contains varnish. PRC noted an odor similar to that of varnish in this building. PRC did not note any spills that had reached the outside of the building, although areas of the floor on the west side of the building were freshly stained with a dark, viscous substance. PRC believes that these stains were formed by leaking pipes or containers in Building 3. According to the Settlement Proposal, 10 of the 11 tanks were empty in 1985, during response actions initiated by the 4(q) Notice. The remaining tank contains a black liquid that is nonhazardous according to the Valspar (IT, 1990b).

This building is an AOC because PRC could not determine the contents of its tanks. PRC observed a spill area inside the building.

4.2.3.2 Building 3-B

PRC observed 18 tanks in Building 3-B. A summary of the tanks in Building 3-B is provided in Table G-8 of Attachment G. These tanks range in volume between 8,000 and 20,000 gallons, with 12 of the tanks being 10,000 gallons or greater in capacity. Building 3-B was once used as a resin storage area (IT, 1990b). Due to the fact that a number of trenches and possibly pits were obscured by debris, PRC did not attempt to visually inspect each tank in this building closely. The floor of this building is covered with liquid and sludge. PRC believes that these materials may have leaked from the tanks and associated pipelines in this building. PRC noted a slight resinous odor in this building, but the PID did not detect any volatile vapors. According to the Settlement Proposal, all 18 tanks contain hard, solid resins and clear liquids. Based on Valspar's identification of past contents of these tanks (IT, 1990b), PRC believes that these materials may include hardened and liquid rosin, tall oil, linseed oil, and glycerin.

This building is an AOC because PRC could not determine the contents of its tanks. PRC observed sludge and liquid on the floor and in the trenches in this building. This material may have been released from the tanks.

4.2.3.3 Building 5-A

PRC observed 11 tanks in Building 5-A. A summary of the tanks in Building 5-A is provided in Table G-9 of Attachment G. Seven of the tanks range in volume between 50 and 330 gallons. Two of the other tanks contain volumes of 1,000 gallons, and the remaining two tanks contain volumes of 2,500 gallons. This building was used as a resin and oil storage area and was not used by Valspar (IT, 1990b). Building 5-A is divided into an upper and a lower floor. A staircase is located at the south end of the building. Because the building is small, PRC addresses the tanks in this building together. PRC observed tarry substances in at least two of these tanks; the same tarry substance was located on the floor below the tanks. According to the Settlement Proposal, eight of the 11 tanks were empty in 1985, during response actions initiated by the 4(q) Notice. One tank contained a hazardous brown-black oil (D001); that tank was emptied and cleaned by Valspar. The remaining two tanks contain a yellow oil and solids. Valspar claims that these materials are nonhazardous (IT, 1990b). PRC could not determine whether eight tanks were empty because PRC could not see into the tanks.

This building is an AOC because PRC could not determine the contents of its tanks. A tarry substance on the floor may have been released from these tanks.

4.2.3.4 Building 5-B

PRC identified one large tank unit and one small tank unit in this building. A summary of the tanks in Building 5-B is provided in Table G-10 of Attachment G. The small tank unit contains a volume of about 500 gallons. The large tank unit holds three tanks ranging in volume between 1,250 and 2,250, with a total capacity of 5,750 gallons. Valspar used this building as a resin and oil storage area (IT, 1990b). The 500-gallon tank unit was cut open and cleaned in 1985, during response actions initiated by the 4(q) Notice, because it contained a hazardous mixture of resin and oil (D001). Valspar believes that the contents of the other three tanks are nonhazardous. The contents of these tanks are described as dark solids and a clear liquid (IT, 1990b). PRC did not observe the contents of these tanks.

This building is an AOC because PRC could not determine the contents of its tanks.

4.2.3.5 Building 5-C

PRC could not count the tanks in Building 5-C, because the floor of the building was covered with several feet of a rust-colored liquid. Information provided to PRC after the VSI indicates that this building contains seven 9,000-gallon tanks and one 9,250-gallon tank. Valspar

used this building as a resin and oil storage area (IT, 1990b). A summary of the tanks in Building 5-C is provided in Table G-11 of Attachment G. PRC believes that some or all of this liquid may have leaked from the tanks and associated pipelines in this building. During the 1985 response actions initiated by the 4(q) Notice, Valspar cleaned and emptied four of the eight tanks, because the tanks contained hazardous waste materials, including alkyd resins (D001) and a mixture of resin and oil (D001). Valspar claims that the other four tanks contain various nonhazardous alkyd resins (IT, 1990b).

This building is an AOC because PRC could not determine the contents of its tanks. The floor of the building is covered with several feet of liquid that may have been released from the tanks or deliberately placed in the building by unauthorized persons.

4.2.3.6 Building 6

PRC estimated the number of tanks it observed in this building to be greater than 90. PRC did not count each tank because many tanks were located overhead and could not be accessed. According to information provided to PRC after the VSI, Building 6 contains 104 tanks ranging in volume between 800 and 8,000 gallons. A summary of the tanks in Building 6 is provided in Table G-12 of Attachment G. A total of 12 tanks have capacities of 800 gallons; 76 tanks have capacities between 1,250 and 4,250 gallons; and 16 tanks have capacities of 5,000 or more gallons. Because of the number and inaccessibility of some tanks in this building, PRC did not closely investigate each tank. Valspar describes the past use of this building as a resin and paint-related oil storage area (IT, 1990b). Several of the tanks or pipelines located above the aisles were leaking, but PRC could not determine the exact source of the leaks. The leaks consisted of thick, resinous streams of material that originated above the steel tank supports. Large pools of liquid and the leaking material were observed in Building 6. According to the Settlement Proposal, 29 of the 104 tanks were empty in 1985, during response actions initiated by the 4(q) Notice. An additional 40 tanks contained hazardous waste materials and were cut open and cleaned. The tanks contained linseed oil (D001), alkyd resins (D001), mixtures of resin and oil (D001), and urethane (D001). Valspar claims that the remaining 35 tanks contain nonhazardous materials, including linseed oil, various alkyd resins, and mixtures of resin and oil. Three of the tanks in this building may have once contained propylene glycol, ethylene glycol, and hexylene glycol. However, these tanks were reportedly empty in 1985 (IT, 1990b).

This building is an AOC because PRC could not determine the integrity or contents of its tanks; because PRC observed materials leaking from tanks or pipelines associated with tanks in this building; and because PRC observed released material on the floor.

4.2.3.7 Building 6-A

PRC observed three tanks on a catwalk in Building 6-A. A summary of the tanks in Building 6-A is provided in Table G-13 of Attachment G. Two of these tanks have a capacity of 350 gallons and the other tank has a capacity of 150 gallons. Valspar used this building as a resin storage area (IT, 1990b). PRC did not climb onto the catwalk for safety reasons, so these tanks were not closely investigated. According to the Settlement Proposal, the smallest tank was empty in 1985, during response actions initiated by the 4(q) Notice. Valspar claims that the other two tanks contain a nonhazardous liquid (IT, 1990b).

This building is an AOC because PRC could not determine the integrity or contents of its tanks.

4.2.3.8 Third Floor of Building 7

PRC observed 20 tanks on the third floor of Building 7. A summary of the tanks on the third floor of Building 7 is provided in Table G-14 of Attachment G. Eighteen of these tanks range in capacity from 450 to 1,000 gallons, and two tanks have capacities of 1,600 gallons. Information obtained after the VSI indicates that a 10-gallon glue pot is also located on this floor of the building. Valspar used this floor of the building as a process area. Paint was mixed, tinted, and thinned in the tanks located in this room (IT, 1990b). PRC observed tanks along the south, west, and north walls in this building. The tops of many of the tanks were open, and PRC observed paint residues in these tanks. Exceptions included three tanks that had been cut open and cleaned. According to the Settlement Proposal, 15 of the 20 tanks were empty in 1985, during response actions initiated by the 4(q) Notice. One tank contained a thin coating of solid material and was considered empty. Three tanks contained hazardous materials and were cut open and cleaned. One of these three tanks is a 900-gallon tank contained paint residues (D001); the two 1,600-gallon tanks contained residues of liquid organic wastes that they stored (D001, D008). Valspar claims that one tank and the glue pot contain nonhazardous materials, including paint mixtures and hardened glue (IT, 1990b).

Valspar identified the two 1,600-gallon tanks as having been used to store liquid organic waste. PRC could not determine the constituents of this waste. Based on the waste codes used to identify it, the waste contained lead and ignitable materials. According to Valspar's RCRA Part A permit application, Valspar's closure plans, and the closure certification provided by Rapps, these tanks were not permitted (Valspar, 1980c; 1985; Rapps, 1985).

The third floor of Building 7 is an AOC because PRC could not determine the contents of its tanks and because PRC observed paint residues in many of the tanks.

4.2.3.9 Fifth Floor of Building 7

PRC observed five tanks on the fifth floor of Building 7. A summary four of the tanks on the fifth floor of Building 7 is provided in Table G-15 of Attachment G. Information provided to PRC after the VSI indicate that four tanks with capacities of 500 gallons were used on this floor of the building. Valspar did not use this floor of the building during the time it operated at the facility (IT, 1990b). PRC assumes that the tanks located on this floor were left at the facility by operators of the facility before 1976, when Valspar began operating there. Three of the four tanks identified by Valspar are located along the east wall near the southeast corner. The fourth tank identified by Valspar is located against the north wall on a weigh scale. A fifth tank, identified by PRC but not by Valspar, is located along the south wall in the southeast corner. According to the Settlement Proposal, two of the four tanks were empty in 1985, during response actions initiated by the 4(q) Notice. A third tank contained an unknown, hazardous waste material (D001); that tank was cut open and cleaned during the response actions. The fourth tank contains an unknown, rust-colored liquid that Valspar considers to be nonhazardous (IT, 1990b).

The fifth floor of Building 7 is an AOC because PRC could not determine the contents of its tanks and because all tanks in the building have not been identified in previous facility characterizations.

4.2.3.10 Building 7-B

PRC did not identify any tanks in Building 7-B. However, previous inventories of the facility have noted that one tank is located in this building. A summary of the tank in Building 7-B is provided in Table G-16 of Attachment G. PRC believes that it overlooked the 800-gallon tank identified by Valspar or that the tank has been removed from the facility since Valspar performed the tank inventory prior to 1987 (Kinsey, 1987). Valspar used Building 7-B as a resin storage area, but Valspar believes that the tank contains caustic sludge. The pH of the sludge is below RCRA regulatory levels (IT, 1990b).

This building is an AOC because PRC could not locate a tank that is alleged to exist there.

4.2.3.11 Third Floor of Building 8

PRC observed 18 tanks on the third floor of Building 8. A summary of the tanks on the third floor of Building 8 is provided in Table G-17 of Attachment G. Nine of the tanks have capacities ranging between 550 and 900 gallons; the other nine tanks have capacities ranging between 1,000 and 1,600 gallons. Valspar used this floor of the building as a process area. Paint was mixed, tinted, and thinned in the tanks located in this room (IT, 1990b). Seventeen of the tanks are aligned against the south and west walls, and one tank is located in the center of the building. PRC noted that at least six of these tanks had been cut open and cleaned. According to the Settlement Proposal, 10 of the 18 tanks were empty in 1985 during response actions initiated by the 4(q) Notice. Seven of the tanks contained hazardous materials and were cut open and emptied. These tanks contained various paint mixtures (D001). The remaining tank was not used by Valspar. According to Valspar, it contains an unknown, nonhazardous liquid material (IT, 1990b).

The third floor of Building 8 is an AOC because PRC could not determine the contents of its tanks.

4.2.3.12 First Floor of Building 10

PRC observed four large tanks hidden behind two doorways on the first floor of Building 10. A summary of the tanks on the first floor of Building 10 is provided in Table G-18 of Attachment G. Valspar used this floor of the building as a process area. The four tanks that PRC observed have capacities of about 8,000 gallons. At least two of the four tanks that PRC observed were used to store paint returned to the plant for reformulation (IT, 1990b). Past inventories have noted that three other 1,200-gallon tanks were used to neutralize caustic wastewater in this building, and that one tank in this building contained acid (Waste Reduction, 1985; IT, 1990b). PRC did not observe these tanks in Building 10 during the VSI. However, PRC did observe three tanks in Building 10-A during the VSI. Based on PRC's estimates of the capacities of these tanks, they may correspond to the three caustic wastewater neutralization tanks identified by Valspar. PRC did not locate the 60-gallon acid tank identified by Valspar. This tank may have been removed from the facility after Valspar's last inventory of the facility prior to 1987 (Kinsey, 1987), or PRC may have overlooked this small tank. According to the Identified Response and the Settlement Proposal, the 60-gallon acid tank and two of the 8,000-gallon tanks were empty in 1985, during response actions initiated by the 4(q) Notice. Valspar claims that the remaining five tanks contain nonhazardous liquid and solid materials. These materials may include caustic solutions or sludges and paint mixtures (IT, 1990b; Waste Reduction, 1985).

The first floor of Building 10 is an AOC because PRC could not determine the contents of its tanks and because PRC could not locate each of the tanks alleged to exist there.

4.2.3.13 Second Floor of Building 10

PRC did not locate any accessways into the second floor of Building 10 and therefore was unable to observe any tanks there. Valspar apparently used this floor of the building as a process area. Information provided to PRC after the VSI indicates that two 3,800-gallon tanks and one 800-gallon tank exist on the second floor of Building 10. A summary of the tanks on the second floor of Building 10 is provided in Table G-19 of Attachment G. According to Valspar, all three tanks contain nonhazardous, solid, black residues or clear, yellow oil. These materials may include dried paint and oils used to make paint (IT, 1990b; Waste Reduction, 1985).

The second floor of Building 11 is an AOC because PRC could not investigate this floor of the building. PRC also could not identify the contents of its tanks.

4.2.3.14 Basement of Building 11

PRC observed four aboveground storage tanks in the basement of Building 11. Valspar used this floor of the building as a process area (IT, 1990b). A summary of the tanks in the basement of Building 11 is provided in Table G-20 of Attachment G. Based on gauges attached to these tanks, PRC estimates that the volume of each tank is approximately 12,000 gallons. Past inventories by Valspar indicate a total of four tanks, each having a capacity of only 4,000 gallons. PRC is uncertain about these apparent discrepancies in the tank volumes. All four of the tanks identified by Valspar were empty in 1985, during the response actions initiated by the 4(q) Notice, and Valspar claims that it did not use these tanks during its period of operations at the facility (IT, 1990b).

The basement of Building 11 is an AOC because PRC could not determine the contents of its tanks and because past inventories of this area do not agree with PRC's observations.

4.2.3.15 First Floor of Building 11

PRC observed one tank against the south wall of the first floor of Building 11. A summary of the tank on the first floor of Building 11 is provided in Table G-21 of Attachment G. The tank appeared to be a 20-cubic-yard roll-off box with a fitting placed over a hole in its top to allow for filling and emptying operations. Valspar used this building as a process area, and

the tank was probably used to store bulk titanium dioxide slurry. According to the Settlement Proposal, this 5,000-gallon tank contains a nonhazardous, saturated, solid sludge cube (IT, 1990b).

This building is an AOC because PRC could not determine the contents of the tank.

4.2.3.16 Basement of Building 12

PRC observed three tanks against the east wall of the basement of Building 12. A summary of the tanks in the basement of Building 12 is provided in Table G-22 of Attachment G. Valspar used this floor of the building as a process area. These tanks each have a capacity of 1,200 gallons. The tanks were used as part of a caustic cleaning system (IT, 1990b). PRC noted that the tanks were labeled "Caustic." Because the tanks were part of a caustic cleaning system, PRC believes that they may have been a SWMU at one time. These tanks likely generated caustic sludges and stored them for short periods of time. According to the Settlement Proposal, one of the three tanks was empty in 1985, during the response actions initiated by the 4(q) Notice. Valspar claims that the other two tanks contain nonhazardous liquid and solid materials (IT, 1990b). These materials may include caustic liquids and sludges generated from cleaning paint tanks.

This building is an AOC because PRC could not determine the contents of its tanks. Based on past operations, these tanks may store materials with hazardous constituents.

4.2.3.17 Third Floor of Building 12

PRC observed 23 tanks with capacities ranging between 900 and 1,600 gallons, and one 30-gallon drum, on the third floor of Building 12. A summary of the tanks on the third floor of Building 12 is provided in Table G-23 of Attachment G. Valspar used this floor of the building as a process area. The tanks were used to mix, tint, and thin paints. The drum was used to store caustic wastewater (IT, 1990b). According to the Settlement Proposal, 21 of the 24 tanks were empty in 1985, during response actions initiated by the 4(q) Notice. According to Valspar, the remaining three tanks contain nonhazardous materials, including sludge materials, clear liquids, and white solids. These materials may include paint mixtures as well as caustic liquids and sludges. PRC observed solid materials that resembled hardened resins in the outlets of at least two of these tanks.

The third floor of Building 12 is an AOC because PRC could not determine the contents of its tanks and because PRC observed hardened materials in at least two of these tanks.

4.2.3.18 Fourth Floor of Building 12

PRC observed one tank on the fourth floor of Building 12. A summary of the tank on the fourth floor of Building 12 is provided in Table G-24 of Attachment G. This tank has a capacity of 800 gallons and was probably used as part of a caustic cleaning system. Valspar used this building as a process area (IT, 1990b). PRC did not observe any standing liquids in this tank, and Valspar describes the tank's contents as nonhazardous caustic sludge (IT, 1990b).

The fourth floor of Building 12 is an AOC because PRC could not determine the contents of its tank.

4.2.3.19 Fifth Floor of Building 12

PRC observed three 500-gallon tanks on the fifth floor of Building 12. A summary of the tanks on the fifth floor of Building 12 is provided in Table G-25 of Attachment G. Valspar used this floor of the building as a process area. Valspar claims that it did not use at least two of the three tanks during the period that it operated at the facility. According to the Settlement Proposal, all three of the tanks were empty in 1985, during response actions initiated by the 4(q) Notice, and the past uses of these tanks are unknown (IT, 1990b).

This building is an AOC because PRC could not determine the contents of its tanks.

4.2.3.20 Building 15-A

PRC did not observe any tanks in Building 15-A. According to information provided to PRC after the VSI, three tanks were used in this building during the period that Valspar operated at the facility. A summary of the tanks that were once located in Building 15-A is provided in Table G-26 of Attachment G. These tanks were removed prior to the 1985 response actions initiated by the 4(q) Notice. According to the Settlement Proposal, these 12,000-gallon tanks contained acrylic emulsions (IT, 1990b).

This building is an AOC because PRC could not determine whether the tanks previously located there leaked their contents to the floor.

4.2.3.21 Building 15-B

PRC observed five tanks in Building 15-B. A summary of the tanks in Building 15-B is provided in Table G-27 of Attachment G. Four of these tanks have capacities of 4,500 gallons;

the other tank has a capacity of 2,100 gallons. Valspar used this building as a resin storage area (IT, 1990b). The floor of this building was coated with latex and resins during the VSI. PRC believes that pipelines or tanks are leaking or have leaked onto the floor. Because the floor in this building was coated with materials that appeared to have been released from the tanks, PRC did not closely investigate each tank. According to the Settlement Proposal, two of the five tanks were empty in 1985, during the response actions initiated by the 4(q) Notice. Valspar claims that the other three tanks contain nonhazardous materials, including brown oil and latex liquids (IT, 1990b).

This building is an AOC because PRC could not determine the integrity or contents of its tanks and because material on the floor may have been released from the tanks.

4.3 PIPING RACEWAYS

During the PA, Goodwill informed PRC that piping raceways exist throughout the facility. During the VSI, Goodwill further stated that several of the piping raceways were connected with Armstrong Containers. PRC observed several piping raceways that appeared to lead to the Armstrong Containers plant. During the VSI, Valspar stated that when the entire property was owned by Armstrong Paint, piping existed between the two plants. Valspar further stated that the pipelines were cut when Armstrong Paint sold the property that Valspar used during its period of operations at the facility.

PRC observed piping raceways both indoors and outdoors throughout the facility. Some of the raceways are aboveground tunnels that can be accessed without any difficulty. In particular, raceways run in tunnels along both sides of the main railroad spur that cuts through the facility. Other raceways are located on building exteriors and ceilings and are too high to reach without a ladder. PRC observed what appeared to be resins leaking from several pipelines indoors and outdoors at the facility. Based on past sampling that has been performed at the facility, these resins may contain acetone, benzene, 2-butanone, ethylbenzene, 2-hexanone, toluene, and xylenes (see Tables 3 and 4). Other materials may also be present in the leaking materials.

Some raceways run through underground tunnels. Due to safety considerations, PRC did not enter any of these tunnels to investigate the raceways. Underground raceways were observed at the south end of the facility near the railroad tracks. Other unknown, underground raceways may be present at the facility, but PRC did not locate them during the VSI.

The piping raceways constitute an AOC because PRC could not observe many of the raceways located throughout the facility, because PRC observed leaks from piping, and because releases to the environment from piping have occurred.

4.4 OUTDOOR SPILL AREAS

PRC identified four, outdoor areas on facility property that appear to have received spills in the past. These areas include the concrete pad east of Building 25, the railroad spur, the Cooper's Pit, and the pipelines west of the Cooper's Pit.

The outdoor spill areas constitute an AOC because PRC could not determine the constituents or quantity of released material. Spilled material may be contributing to groundwater, surface water, and soil contamination at the facility.

4.4.1 Concrete Pad East of Building 25

PRC observed several spills of a dark substance that may be paint on the concrete pad east of Building 25. The spills cover an area of at least 75 square feet. Based on historical pictures of this area, PRC believes that the pad was used to store miscellaneous equipment removed from the facility when it was being vacated (Rapps, 1985). During the VSI, this area contained a large quantity of rubbish, including scrap metal, wooden pallets, and empty paint cans. The spills originated near the southeast corner of Building 25 and appear to have flowed toward a drain located in the middle of the pad. Valspar and Goodwill representatives were present during this portion of the VSI, but neither party knew whether the drain is operational or where its outfall is located. Based on pictures taken in 1985 (Rapps, 1985) and information provided to PRC after the VSI, PRC believes that this area may have been used as a container storage area (IT, 1990b).

4.4.2 Railroad Spurs

PRC observed areas of stressed vegetation along the two railroad spurs running through the facility. Miscellaneous rubbish, paint and varnish chips, damp areas, leaking pipes, and discarded generator equipment were observed along the spurs. Because product material was probably unloaded from railcars at the spurs, PRC believes that small spills may have routinely occurred in this area. Soil samples collected by RERC in December 1989, indicated that soils along a railroad spur contain lead levels as high as 690 ppm. The EP Toxic level of lead in the same soil sample was reported at 0.4 mg/L (RERC, 1990a). Table 4 summarizes the RERC sampling results. An electrical engine is located along the spur east of Building 9. Because PCB

contamination associated with electrical equipment has been identified in facility buildings (see Tables 3 and 4), PRC believes that the railroad spur may also be contaminated with PCBs.

4.4.3 The Cooper's Pit

PRC observed a large quantity of debris in the Cooper's Pit (Building 7-C), including articles of clothing, dust, chipped paint, paint spills, and hundreds of drum bungs. Soil samples collected from the earthen Cooper's Pit floor by RERC in December 1989, have indicated lead levels as high as 230 ppm, with EP Toxic levels as high as 0.4 mg/L (RERC, 1990a). RERC's sampling efforts are summarized in Table 4. Studies undertaken by Valspar have identified soils in the Cooper's Pit containing levels of lead as high as 215 mg/kg, with EP Toxic levels as high as 0.10 mg/L (Weston, 1989). Table 2 summarizes Valspar's sampling efforts.

A PCB wipe sample collected in the Cooper's Pit by the Weston TAT in September 1990, indicated that PCBs were present in the form of Aroclor 1254 at a level of 19.6 $\mu g/100\ cm^2$ (Weston, 1990). Table 3 summarizes Weston's sampling efforts. PRC could not determine the exact sample locations of the Weston TAT samples, but PRC observed dark streaks on the walls of the Cooper's Pit.

4.4.4 Pipelines West of the Cooper's Pit

PRC observed a pool of resin about 10 square feet in area and several inches deep on the soil west of the Cooper's Pit. The resin had flowed from pipelines running through a raised raceway on the west side of Building 7-C. Streams of resin were hanging from the bottom of the raceway, and the resulting resin pools completely obscured the soil. When PRC applied pressure to the hardened skin, yellow material oozed out from beneath it. Past samples taken from this area indicate that the soils beneath the resin have been contaminated with non-chlorinated solvents, including acetone, benzene, 2-butanone, ethylbenzene, 2-hexanone, toluene, and xylenes (RERC, 1990a; Weston, 1990) (see Tables 3 and 4).

4.5 PCB CONTAMINATION

PRC observed puddles of oil in many of the buildings at the facility. Additionally, various rooms contained electrical equipment. Based on previous investigations at the facility, any area containing oil may also contain PCBs. Nine areas containing oil or oily substances observed during the VSI or addressed in documents generated during site activities are discussed in this section, with the exception of the Cooper's Pit, which is discussed separately in subsection 4.4.3.

Areas of PCB contamination constitute an AOC because PRC could not determine the extent of this contamination. PRC observed that unauthorized persons gain access to the facility, and those persons may come into contact with the contaminated areas.

4.5.1 Building 3-B

During the VSI, the floor of Building 3-B was covered with sludge and liquids. Because of these conditions, PRC did not venture all the way into the building, which was formerly used as a resin and oil storage area (IT, 1990b). PRC did not notice anything that would have indicated the presence of electrical oils, fuel oils, or oils containing PCBs during the VSI, but sampling conducted by the Weston TAT in September 1990 indicated their presence. A wipe sample indicated levels of Aroclor 1260 at 103,000 $\mu g/100\ cm^2$. A sludge sample indicated levels of Aroclor 1248 at 2,770 ppm and Aroclor 1260 at 448,000 ppm (Weston, 1990). A summary of Weston's sampling activities is provided in Table 3.

4.5.2 Building 3-F

PRC observed what appeared to be electrical equipment, including at least one transformer, in Building 3-F. The floor in this building was sticky, and pools of oil were visible around some of the equipment. PRC also observed an overturned bucket. The bucket's contents had spilled onto the concrete floor and formed a small pool around the bucket. The spilled substance was dark in color and appeared to be oil. Past sampling efforts by RERC in December 1989 have indicated that PCBs are present in concentrations as high as 4,413,000 $\mu g/100\ cm^2$ (RERC, 1990a). A summary of RERC's sampling efforts is presented in Table 4. RERC noted in its January 1990 Environmental Assessment of the facility that the PCB wipe samples were collected in a Building 3 electrical room (RERC, 1990a). The only electrical room that PRC observed in the Building 3 complex is located in Building 3-F, and PRC believes that RERC may have collected its PCB wipe samples in Building 3-F.

4.5.3 First Floor of Building 8

PRC observed two electrical engines on the first floor of Building 8, in a generator room located in the northern portion of the building. PRC believes that fuel oil was probably used as a fuel source for these engines. However, because sampling efforts conducted around other electrical equipment in the facility have revealed the presence of PCBs (RERC, 1990a; Weston, 1990), PRC believes that PCB-containing oil may have been used in conjunction with these engines (see Tables 3 and 4). PRC observed oily liquids in trenches beneath each of the engines.

4.5.4 Building 9

PRC observed an electrical engine in Building 9, which appears to have been a generator building. PRC believes that fuel oil was probably used as a fuel source for this engine. PRC observed oily liquids in a trench beneath the engine. The floor in this room was sticky in areas. Sludge samples were taken from this room by the Weston TAT in September 1990. Sample analyses results indicated that the sludge contained up to 6.67 ppm PCBs (Aroclor 1254) (Weston, 1990). A summary of Weston's sampling efforts is provided in Table 3. A floor wipe sample was collected by RERC in December 1989. Sample analyses results indicated a PCB concentration of 12,917 $\mu g/100\ cm^2$ in the sample area. RERC's sampling efforts are summarized in Table 4. Based on sample results, PCB contamination is present in this building.

4.5.5 Building 9-C

PRC observed several boilers in this building, which appears to have been a boiler room during plant operations. The floor of the room was heavily covered with debris, and PRC observed several pools of black, oily substances. The pools were located throughout the room. Because of safety concerns, PRC did not attempt to enter small corners and walkways in this room. Because this building contains electrical equipment, and because past sampling efforts at the facility have indicated the presence of PCBs near electrical equipment, PRC believes that the pools of oil, the walls, and the machinery in this building may be contaminated with PCBs.

4.5.6 First Floor of Building 10

PRC observed several oily stains on the first floor of Building 10. Valspar apparently used this area of the plant as a process area (IT, 1990b). Historical records of the facility do not indicate that electrical equipment was used in this building. However, PRC could not determine whether any electrical equipment may have been temporarily stored or used in this building. Because sampling efforts at the facility have revealed the presence of PCB-containing oils in other parts of the facility (see Tables 3 and 4), PRC believes that these oil stains may contain PCBs.

4.5.7 Basement of Building 12

A room containing electrical equipment is located at the west end of the Building 12 basement. PRC observed several inches of oily liquids and sludge on the floor of this room. PRC also observed three inoperational transformers and other abandoned electrical equipment in

this room. Based on the presence of the transformers and other equipment, PRC believes that this room was used as an electrical room when the plant was operational. Samples taken by the Weston TAT in September 1990, indicate that liquids in the room contain PCBs as high as 3,300 ppm (Aroclor 1260). Analysis of a PCB wipe sample collected by the Weston TAT in this room showed levels of Aroclor 1260 as high as 61,800 $\mu g/100\ cm^2$ (Weston, 1990). A summary of Weston's sampling efforts is presented in Table 3. During an RERC sampling visit in December 1989, a PCB wipe sample was collected from the electrical room. Analyses indicate that levels of PCBs as high as 161,464 $\mu g/100\ cm^2$ are present in the room (RERC, 1990a). A summary RERC's sampling efforts is presented in Table 4. RERC identified the sample location as the electrical vault in Building 14, but PRC assumes that this is a typographical error and should be Building 12. PRC did not observe any rooms containing electrical equipment in the basement of Building 14, which is located adjacent to Building 12. Based on the sampling results, PCBs are present in the basement electrical room of Building 12.

4.5.8 Railroad Spur

PRC observed an electrical engine on the railroad spur east of Building 9. Based on the electrical engines currently present in Buildings 8 and 9, the engine may have been used inside one of these buildings at one time. Because PCBs have been detected in buildings containing electrical equipment at the facility (RERC, 1990a; Weston, 1990) (see Tables 3 and 4), PRC believes that this engine may be storing PCBs in oils remaining in the equipment.

4.6 ASBESTOS PIPING INSULATION

PRC observed many pipes insulated with various types of material during the VSI. Some insulation contained yellow fibers and appeared similar to fiberglass piping insulation available at most hardware stores. Other piping insulation contained white or cream-colored fibers. Analyses of piping insulation by RERC has indicated that amosite and chrysotile asbestos fibers are present in some of the facility's piping insulation at levels of 40 to 50 percent (RERC, 1990d). Analysis of piping insulation by Kinsey during site characterization activities in 1985, following the 4(q) Notice indicated that amosite fibers are present in some of the piping insulation at the facility at levels of 90 to 95 percent (Pace Laboratories, Inc., 1985). Piping insulation was observed in almost every building of the facility. Much of the insulation material is deteriorating and falling from ceiling pipes onto the floors of the buildings.

Areas containing asbestos piping insulation constitute an AOC because PRC could not determine the amount of this insulation at the facility. PRC observed that unauthorized persons

gain access to the facility, and those persons may come into contact with the insulation, which is a hazardous material.

4.7 HEAVY METAL DUST AND PEELING PAINT

During the VSI, PRC observed rooms and buildings that have apparently remained undisturbed for some time. Dust had settled in almost every building PRC inspected. According to Valspar:

> During early years of operation, metallic pigments were stored in bags or fiber drums in various areas of the production buildings. They were loaded into pigment hoppers on the fourth or fifth floor of buildings 7 and 12. Aluminum and copper pigments were used in paste form. Lead, chromium, cadmium and titanium were used as powders. In 1982, the plant phased out of manufacturing metal based paints (IT, 1990b).

Past removal actions included vacuuming large areas containing dust on floors one through six of Buildings 7, 8, and 12. In 1987, Kinsey noted that vandalism at the facility had exposed some dust thought to contain lead (Kinsey, 1987). PRC believes that ongoing vandalism is occurring at the facility and that this vandalism may be exposing more lead dust.

PRC observed at least two dust collectors during the VSI. These units were probably used to collect heavy metal pigments that became airborne during mixing operations and may currently contain heavy metal dust.

PRC observed peeling paint in nearly every building at the facility. Because of concern about the presence of lead in this paint, RERC sampled peeling paint chips during its December 1989 sampling visit. Sample analyses indicated levels of total lead as high as 230 ppm and EP Toxic lead as high as 0.3 mg/L (RERC, 1990a). A summary of RERC's sampling efforts is presented in Table 4.

Areas containing heavy metal dust or peeling paint constitute an AOC because PRC could not determine the amount of dust and peeling paint at the facility. Lead pigments were used at the facility when it was operating, and the peeling paint contains lead. PRC observed that unauthorized persons gain access to the facility, and those persons may come into contact with the dust and peeling paint.

4.8 ALLEGED LEAD SMELTING OPERATIONS

Before and during the VSI, Goodwill stated that lead smelting operations may have occurred at the facility prior to the time Valspar used it (Bell, Boyd & Lloyd, 1991a). Because lead compounds have been extensively used as pigments in the paint industry, PRC believes that a lead compound conversion system may have been used at the facility. During and after the VSI, PRC explored the possibilities that past operators at the facility may have smelted lead or used a lead compound conversion process.

Because lead smelting or lead compound conversion requires a source of heat, Building 3 is the only area that PRC believes may have been used to smelt lead or convert lead compounds. PRC observed three kettles in the varnish cooking area in this building. A heat source would have been located below the varnish kettles in order to cook the varnish, and this heat source could have possibly been used to smelt lead or to alter the chemical characteristics of lead compounds.

During the VSI, Valspar stated that it did not use Building 3 to cook varnish during the time it used the facility buildings. PRC believes that Valspar did not use the building to smelt lead or convert lead compound pigments, either. PRC did not note any other buildings that would likely have been used to heat materials.

After the VSI, PRC obtained maps of the facility created by Armstrong Paint between 1944 and 1967. According to these maps, a "lead plant" is located at the south end of the Armstrong Paint facility (Armstrong Paint, 1966). The buildings called "the lead plant" are located south and east of the South Tank Farm at the facility and are located on Armstrong Containers property. Based on the name of the building, PRC believes that lead smelting, grinding, or other lead operations were required at the facility when Armstrong Paint used the facility property. Prior to the addition of "the lead plant," these operations may have occurred elsewhere at the facility.

Based on the known, past cooking operations in Building 3, and based on the potential that lead operations may have been required before the addition of the "lead plant," Building 3 may have been used to smelt lead or to convert lead compounds in paint pigments.

Building 3 is considered an AOC because of the nature of the activities that may have occurred there. Lead contamination throughout the building may be encountered. PRC observed that unauthorized persons have gained access to the facility, and these persons may come into contact with any lead contamination in the building.

4.9 UNKNOWN, POTENTIAL HAZARDS

PRC did not view several areas of the facility because of perceived hazards or because PRC was not aware of and did not locate the entrances to those areas. Additionally, PRC was not able to identify potential hazards in several areas because of facility conditions. PRC did not perform any intrusive activity or enter any confined spaces, as required by the site-specific health and safety plan.

4.9.1 Areas Not Viewed During the VSI

During the VSI, PRC did not view many of the piping raceways and pipelines because of their inaccessibility. Many of the pipelines were located aboveground along high walls and ceilings. The sheer volume of pipelines at the facility precluded an in-depth inventory during the time allotted for the VSI.

PRC did not view all the stairways at the facility. PRC used stairs to move from one floor to another, and in many cases, several stairways led into each floor of each multi-story building. PRC feels that the stairwells that it did view are probably representative of conditions at other stairways in the building.

Portions of the facility complex have burned to the ground and are covered with rubble. The former resin production buildings and other buildings located at the western side of the facility in Buildings 3-A, 3-C, 3-D, 3-E, 4, 4-A, 4-B, 4-C, 17, 17-A, and 22 were completely covered with fill material during the VSI.

Portions of Buildings 13, 13-A, 13-B, 14, and 14-A were damaged during a fire in the summer of 1990. Goodwill recommended that PRC not walk out over the floor area in several areas of the burned buildings for safety reasons. Although some of the building floors remain, PRC did not conduct a full investigation of the accessible floors.

PRC did not locate entrances to the second floor of Building 3-F, the basement of Building 7, or the second floor of Building 10. PRC did not observe any accessways or fill pipes to the underground fuel storage tanks that reportedly exist in Building 9-C (IT, 1990b).

These areas may be AOCs because although PRC did not observe them, the nature of the operations observed at all other locations suggests similar conditions probably exist. These areas are of concern because of what is not known.

4.9.2 Areas Not Fully Characterized During the VSI

During the VSI, PRC observed trenches, pits, sumps, and drains in several buildings. PRC was generally unable to locate piping leading into or out of these areas. Additionally, many pits, and even entire rooms, were filled with liquids of unknown depth. For safety reasons, PRC did not attempt to disturb the liquids in order to determine the depth to the bottom of the pits or buildings. In many cases, PRC was unable to determine the integrity of the trenches, pits, sumps, drains, and floors, because they contained liquid, rubble, or other unknown substances.

These areas constitute AOCs because they represent potentially hazardous and unknown conditions at the facility.

ATTACHMENT G
TANK SUMMARY

Because of the large number of tanks at the abandoned paint plant located at 1330 South Kilbourn Street in Chicago, Illinois, PRC Environmental Management, Inc. (PRC), has summarized available information in this attachment to the Preliminary Assessment/Visual Site Inspection (PA/VSI) report. The information in the attached tables was gathered from various sources located during the PA, including IT, 1990b; Kinsey, 1987; and Waste Reduction, 1985 (refer to References in the PA/VSI report). Where possible, PRC attempted to correlate available information with observations made at the site during the VSI.

Because of the sheer number of tanks at the site, the limited guidance available from facility representatives during the VSI, and safety concerns regarding entry into certain areas, some parts of the site were not observed. PRC attempted to gather information regarding the areas and include it with the tables in this attachment.

The tables in this attachment should not be viewed as a complete list of tanks at the facility. Certain tanks included in these tables have been removed from the site. PRC believes that other tanks not yet identified may exist at the site. The various information sources are generally in agreement about the status of various tanks, but this is not always the case. Where conflicting data exist, PRC used its best judgment in presenting the available information.

On the seventh floor of Building 8, past inventories have noted used equipment thought to be a filter press. Past inventories have also noted the presence of five kettles and one tank in Building 15. According to these inventories, the contents of the equipment were nonhazardous (Waste Reduction, 1985). The information available about this equipment was too sketchy to be included in the attached tables.

A list of tables included in this attachment is provided on the following pages.

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TABLE G-1

SUMMARY OF NORTH TANK FARM TANKS

IEPA Number	Valspar Number	Volume (gallons)	Tank Cleaned[a]	Tank Pressure-Tested[b]	Past Contents[c]	Current Contents[d]
241	U-26	8,000	No	No	Unknown[e]	Empty
242	U-27	8,000	No	No	Unknown[e]	Empty
243	U-28	8,000	No	No	Unknown[e]	Empty
244	U-29	8,000	No	No	Unknown[e]	Empty
245	U-30	8,000	Yes	Yes	Butyl Acetate (D001)	Empty
246	U-31	8,000	No	No	Unknown[e]	Empty
247	U-32	8,000	No	No	Unknown[e]	Empty
248	U-33	8,000	No	No	Unknown[e]	Empty
249	U-34	8,000	No	No	Unknown[e]	Empty
250	U-35	8,000	No	No	Unknown[e]	Empty
251	U-36	8,000	No	No	Unknown[e]	Empty
252	U-37	8,000	Yes	Yes	Butanol (U031)	Empty
253	U-38	4,500	Yes	Yes	Mineral Spirits (D001)	Empty
254	U-39	2,500	Yes	No	Unknown[e]	Empty
255	U-40	6,000	No	No	Unknown[e]	Empty
			No	No	Unknown[e]	Empty
			No	No	Unknown[e]	Empty

TABLE G-1 (Continued)

SUMMARY OF NORTH TANK FARM TANKS

Notes:

[a] Tanks were cleaned in 1985 during response actions initiated by the 4(q) Notice.

[b] Tanks were pressure-tested in 1986 and 1987 by Kinsey.

[c] Tank contents were estimated in 1985 during response actions inititated by the 4(q) Notice.

[d] Current tank contents were inventoried by Valspar in the October 1990 Settlement Proposal.

[e] Tank was empty in 1985 during response actions initiated by the 4(q) Notice.

Sources: IT, 1990b; Kinsey, 1987; Waste Reduction, 1985

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TABLE G-2

SUMMARY OF SOUTH TANK FARM TANKS

IEPA Number	Valspar Number	Volume (gallons)	Tank Cleaned[a]	Tank Pressure-Tested[b]	Past Contents[c]	Current Contents[d]
256, 257	U-43	8,000	No	No	Fuel oil[e]	Oil and liquid
258, 259	U-46	8,000	No	No	Mineral spirits[e]	Yellow solvent
260, 261	U-49	8,000	Yes	Yes	Mineral spirits (D001)	Empty
262, 263	U-52	8,000	Yes	Yes	Mineral spirits (D001)	Empty
264, 265	U-55	8,000	Yes	Yes	Mineral spirits (D001)	Empty
266	U-58	10,000	No	No	Fuel oil	Unknown[f]
267	U-57	8,000	No	No	Linseed oil	Linseed oil
268, 269	U-56	8,000	No	No	Varnishes[e]	Linseed oil
270, 289	U-54	8,000	Yes	Yes	Mineral spirits (D001)	Empty
271, 272	U-53	8,000	Yes	Yes	Mineral spirits (D001)	Empty
273, 275	U-50	8,000	Yes	Yes	Mineral spirits (D001)	Empty
274, 276	U-51	8,000	Yes	Yes	Mineral spirits (D001)	Empty
277, 280	U-47	8,000	Yes	Yes	Mineral spirits[e]	Empty
278, 279	U-48	8,000	Yes	Yes	Mineral spirits (D001)	Empty
281, 283	U-44	8,000	No	No	Varnishes[e]	Brown liquid
282, 284	U-45	8,000	No	No	Unknown[g]	Empty
285, 288	U-42	0[h]	Yes	Yes	Solvent blend[i] (D001)	Empty
286, 287	U-41	8,000	No	No	Fuel oil[e]	Fuel oil

TABLE G-2 (Continued)

SUMMARY OF SOUTH TANK FARM TANKS

Notes:

[a] Tanks were cleaned in 1985 during response actions initiated by the 4(q) Notice.

[b] Tanks were pressure-tested in 1986 and 1987 by Kinsey.

[c] Tank contents were estimated in 1985 during response actions inititated by the 4(q) Notice.

[d] Current tank contents were inventoried by Valspar in the October 1990 Settlement Proposal.

[e] Material is nonhazardous according to IT, 1990b.

[f] This tank was leased to American Cyanimid and was being used in 1985 according to IT, 1990b.

[g] Tank was empty in 1985 during response actions initiated by the 4(q) Notice.

[h] The volume of this tank is 8,000 gallons according to Waste Reduction, 1985.

[i] The solvent blend consists of toluene, xylene, 2-butanone, butanol, ethylbenzene, and mineral spirits according to IT, 1990b.

Sources: IT, 1990b; Kinsey, 1987; Waste Reduction, 1985

TABLE G-3

SUMMARY OF THE COOPER'S PIT TANKS

IEPA Number	Valspar Number	Volume (gallons)	Tank Cleaned[a]	Tank Pressure-Tested[b]	Past Contents[c]	Current Contents[d]
080	U-12	25,000	Yes	Yes	VM&P naphtha (D001)	Empty
081	U-14	10,200	Yes	Yes	Naphtha (D001)	Empty
082	U-11	9,500	Yes	Yes	Isopropanol (D001)	Empty
083	U-10	9,500	Yes	Yes	2-Butanone (U159)	Empty
084	U-09	9,500	Yes	Yes	Solvent blend[e] (D001)	Empty
085	U-06	12,183	No	No	Mineral spirits[f]	Empty
086	U-05	12,120	No	No	Oil[g]; texanol[h, i]	Clear liquid
087	U-04	8,100	No	No	#140 Aliphatic naphtha[i]	Naphtha
088	U-07	10,200	Yes	Yes	Water[g]; cellosolve[h] (D001)	Empty
089	U-13	10,200	No	No	Water[g]; toluene[h, i]	Clear liquid
290	U-08	5,400	Yes	Yes	Xylene (U239)	Empty
291	U-01	7,630	No	No	Naphtha[i]	Naphtha
292	U-02A	4,052	Yes	Yes	Water[g]; kerosene[h] (D001)	Empty
293	U-02B	4,050	Yes	Yes	Water[g]; kerosene[h] (D001)	Empty
294	U-03	8,100	Yes	Yes	Solvent blend[e] (D001)	Empty

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TABLE G-3 (Continued)

SUMMARY OF THE COOPER'S PIT TANKS

Notes:

[a] Tanks were cleaned in 1985 during response actions initiated by the 4(q) Notice.

[b] Tanks were pressure-tested in 1986 and 1987 by Kinsey.

[c] Tank contents were estimated in 1985 during response actions inititated by the 4(q) Notice.

[d] Current tank contents were inventoried by Valspar in the October 1990 Settlement Proposal.

[e] The solvent blend probably consists of toluene, xylene, 2-butanone, butanol, ethylbenzene, and mineral spirits (see IEPA No. 285 and 288).

[f] Tank was empty in 1985 during response actions initiated by the 4(q) Notice.

[g] Material stored in this tank according to Waste Reduction, 1985.

[h] Material stored in this tank according to IT, 1990b.

[i] Material is nonhazardous according to IT, 1990b.

Sources: IT, 1990b; Kinsey, 1987; Waste Reduction, 1985

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TABLE G-4

SUMMARY OF UNDERGROUND STORAGE TANKS IN BASEMENT OF BUILDING 11

IEPA Number	Valspar Number	Volume (gallons)	Tank Cleaned[a]	Tank Pressure-Tested[b]	Past Contents[c]	Current Contents[d]
–	U-21	7,000	No	No	Unknown[e]	Hard solid
–	U-22	3,500	No	No	Unknown[f]	Empty
–	U-23	3,500	No	No	Unknown[e]	Clear, viscous liquid

Notes:

[a] Tanks were cleaned in 1985 during response actions initiated by the 4(q) Notice.

[b] Tanks were pressure-tested in 1986 and 1987 by Kinsey.

[c] Tank contents were estimated in 1985 during response actions inititated by the 4(q) Notice.

[d] Current tank contents were inventoried by Valspar in the October 1990 Settlement Proposal.

[e] Material is nonhazardous according to IT, 1990b.

[f] Tank was empty in 1985 during response actions initiated by the 4(q) Notice.

Sources: IT, 1990b; Kinsey, 1987; Waste Reduction, 1985

TABLE G-5

SUMMARY OF UNDERGROUND STORAGE TANKS IN BUILDING 9-C

IEPA Number	Valspar Number	Volume (gallons)	Tank Cleaned[a]	Tank Pressure-Tested[b]	Past Contents[c]	Current Contents[d]
--	U-62	25,000	No	No	Fuel oil[e]	Empty
--	U-63	25,000	No	No	Fuel oil[f]	Fuel oil (1,200 gallons)
--	U-64	10,000	No	No	Fuel oil[f]	Fuel oil (200 gallons)

Notes:

[a] Tanks were cleaned in 1985 during response actions initiated by the 4(q) Notice.

[b] Tanks were pressure-tested in 1986 and 1987 by Kinsey.

[c] Tank contents were estimated in 1985 during response actions inititated by the 4(q) Notice.

[d] Current tank contents were inventoried by Valspar in the October 1990 Settlement Proposal.

[e] Tank was empty in 1985 during response actions initiated by the 4(q) Notice.

[f] Material is nonhazardous according to IT, 1990b.

Sources: IT, 1990b; Kinsey, 1987; Waste Reduction, 1985

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TABLE G-6

SUMMARY OF ABOVEGROUND, OUTDOOR STORAGE TANKS

IEPA Number	Valspar Number	Volume (gallons)	Tank Cleaned[a]	Tank Pressure-Tested[b]	Past Contents[c]	Current Contents[d]
295	–	20,000	No	No	Unknown[e]	Empty
296	–	20,000	No	No	Unknown[e]	Empty

Notes:

[a] Tanks were cleaned in 1985 during response actions initiated by the 4(q) Notice.

[b] Tanks were pressure-tested in 1986 and 1987 by Kinsey.

[c] Tank contents were estimated in 1985 during response actions inititated by the 4(q) Notice.

[d] Current tank contents were inventoried by Valspar in the October 1990 Settlement Proposal.

[e] Tank was empty in 1985 during response actions initiated by the 4(q) Notice.

Sources: IT, 1990b; Kinsey, 1987; Waste Reduction, 1985

TABLE G-7

SUMMARY OF ABOVEGROUND STORAGE TANKS IN BUILDING 3

IEPA Number	Valspar Number	Volume (gallons)	Tank Cleaned[a]	Tank Pressure-Tested[b]	Past Contents[c]	Current Contents[d]
206	138	3,500	No	No	Unknown[e]	Empty
207	139	4,000	No	No	Unknown[e]	Empty
208	140	Unknown[f]	No	No	Unknown[e]	Empty
209	141	2,000	No	No	Unknown[e]	Empty
210	142	2,000	No	No	Unknown[e]	Empty
211	143	4,000	No	No	Unknown[e]	Empty
212	145	2,500	No	No	Unknown[e]	Empty
213	146	2,500	No	No	Unknown[e]	Empty
214	137	3,500	No	No	Unknown[e]	Empty
215	136	Unknown[f]	No	No	Unknown[e]	Empty
216	135	6,000	No	No	Unknown[g]	Black liquid

Notes:

[a] Tanks were cleaned in 1985 during response actions initiated by the 4(q) Notice.

[b] Tanks were pressure-tested in 1986 and 1987 by Kinsey.

[c] Tank contents were estimated in 1985 during response actions inititated by the 4(q) Notice.

[d] Current tank contents were inventoried by Valspar in the October 1990 Settlement Proposal.

[e] Tank was empty in 1985 during response actions inititated by the 4(q) Notice.

[f] Tank volume listed as "Not Available (NA)" in IT, 1990b.

[g] Material is nonhazardous according to IT, 1990b.

Sources: IT, 1990b; Kinsey, 1987; Waste Reduction, 1985

TABLE G-8

SUMMARY OF ABOVEGROUND STORAGE TANKS IN BUILDING 3-B

IEPA Number	Valspar Number	Volume (gallons)	Tank Cleaned[a]	Tank Pressure-Tested[b]	Past Contents[c]	Current Contents[d]
217	148	20,000	No	No	Unknown[e]	Hard resin, clear liquid
218	151	20,000	No	No	Liquid rosin, tall oil (08p50)[e]	Hard resin, clear liquid
219	150	20,000	No	No	Unknown[e]	Hard resin, clear liquid
220	147	20,000	No	No	Raw linseed oil (7p)[e]	Hard resin, clear liquid
221	154	20,000	No	No	Unknown[e]	Hard resin, clear liquid
222	153	20,000	No	No	Liquid rosin, tall oil (08p50)[e]	Hard resin, clear liquid
223	157	10,000	No	No	Unknown[e]	Hard resin, clear liquid
224	156	10,000	No	No	Unknown[e]	Hard resin, clear liquid
225	160	8,000	No	No	Liquid rosin, tall oil (08p50)[e]	Hard resin, clear liquid
226	159	8,000	No	No	Unknown[e]	Hard resin, clear liquid
227	162	8,000	No	No	Unknown[e]	Hard resin, clear liquid
228	163	8,000	No	No	Glycerin[e]	Hard resin, clear liquid
229	164	9,000	No	No	Unknown[e]	Hard resin, clear liquid
230	161	9,000	No	No	Unknown[e]	Hard resin, clear liquid
231	158	10,000	No	No	Liquid rosin, tall oil (08p50)[e]	Hard resin, clear liquid
232	155	20,000	No	No	Unknown[e]	Hard resin, clear liquid
233	152	20,000	No	No	Unknown[e]	Hard resin, clear liquid
234	149	20,000	No	No	Liquid rosin, tall oil (7p2)[e]	Hard resin, clear liquid

TABLE G-8 (Continued)

SUMMARY OF ABOVEGROUND STORAGE TANKS IN BUILDING 3-B

Notes:

[a] Tanks were cleaned in 1985 during response actions initiated by the 4(q) Notice.

[b] Tanks were pressure-tested in 1986 and 1987 by Kinsey.

[c] Tank contents were estimated in 1985 during response actions inititated by the 4(q) Notice.

[d] Current tank contents were inventoried by Valspar in the October 1990 Settlement Proposal.

[e] Material is nonhazardous according to IT, 1990b.

Sources: IT, 1990b; Kinsey, 1987; Waste Reduction, 1985

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TABLE G-9

SUMMARY OF ABOVEGROUND STORAGE TANKS IN BUILDING 5-A

IEPA Number	Valspar Number	Volume (gallons)	Tank Cleaned[a]	Tank Pressure-Tested[b]	Past Contents[c]	Current Contents[d]
–	G-2	50	No	No	Resin and oil[e]	Empty
–	G-3	100	No	No	Resin and oil[e]	Empty
–	G-4	330	Yes	No	Brown-black oil (D001)	Empty
–	G-5	100	No	No	Resin and oil[e]	Empty
–	G-6	200	No	No	Resin and oil[e]	Empty
–	G-7	250	No	No	Resin and oil[e]	Empty
–	G-8	250	No	No	Resin and oil[e]	Empty
–	114	2,500	No	No	Resin and oil[e]	Empty
–	115	2,500	No	No	Resin and oil[e]	Empty
–	205	1,000	No	No	Resin and oil[f]	Yellow oil
–	206	1,000	No	No	Resin and oil[f]	White solid, dark solid

Notes:

[a] Tanks were cleaned in 1985 during response actions initiated by the 4(q) Notice.

[b] Tanks were pressure-tested in 1986 and 1987 by Kinsey.

[c] Tank contents were estimated in 1985 during response actions inititated by the 4(q) Notice.

[d] Current tank contents were inventoried by Valspar in the October 1990 Settlement Proposal.

[e] Tank was empty in 1985 during response actions initiated by the 4(q) Notice.

[f] Material is nonhazardous according to IT, 1990b.

Sources: IT, 1990b; Kinsey, 1987; Waste Reduction, 1985

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TABLE G-10

SUMMARY OF ABOVEGROUND STORAGE TANKS IN BUILDING 5-B

IEPA Number	Valspar Number	Volume (gallons)	Tank Cleaned[a]	Tank Pressure-Tested[b]	Past Contents[c]	Current Contents[d]
--	121	2,250	No	No	Resin and oil[e]	Dark solid
--	122	2,250	No	No	Resin and oil[e]	Dark solid
--	123	1,250	No	No	Resin and oil[e]	Clear liquid
--	124	500	Yes	No	Resin and oil (D001)	Empty

Notes:

[a] Tanks were cleaned in 1985 during response actions initiated by the 4(q) Notice.

[b] Tanks were pressure-tested in 1986 and 1987 by Kinsey.

[c] Tank contents were estimated in 1985 during response actions inititated by the 4(q) Notice.

[d] Current tank contents were inventoried by Valspar in the October 1990 Settlement Proposal.

[e] Material is nonhazardous according to IT, 1990b.

Sources: IT, 1990b; Kinsey, 1987; Waste Reduction, 1985

TABLE G-11

SUMMARY OF ABOVEGROUND STORAGE TANKS IN BUILDING 5-C

IEPA Number	Valspar Number	Volume (gallons)	Tank Cleaned[a]	Tank Pressure-Tested[b]	Past Contents[c]	Current Contents[d]
198	126	9,000	Yes	No	Alkyd resin, 19m391 (D001)	Empty
199	127	9,000	No	No	Alkyd resin, 19m391[e]	Yellow solid, white solid
200	128	9,250	Yes	No	Resin and oil (D001)	Empty
201	129	9,000	No	No	Alkyd resin, 19m103[e]	Clear liquid, skin
202	130	9,000	No	No	Alkyd resin, 19m397[e]	Gel, ember skin
203	131	9,000	No	No	Alkyd resin, 19m304[e]	Amber gel, skin, liquid
204	132	9,000	Yes	No	Alkyd resin, 19m304 (D001)	Empty
205	133	9,000	Yes	No	Alkyd resin, 19m315 (D001)	Empty

Notes:

[a] Tanks were cleaned in 1985 during response actions initiated by the 4(q) Notice.

[b] Tanks were pressure-tested in 1986 and 1987 by Kinsey.

[c] Tank contents were estimated in 1985 during response actions inititated by the 4(q) Notice.

[d] Current tank contents were inventoried by Valspar in the October 1990 Settlement Proposal.

[e] Material is nonhazardous according to IT, 1990b.

Sources: IT, 1990b; Kinsey, 1987; Waste Reduction, 1985

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TABLE G-12

SUMMARY OF ABOVEGROUND STORAGE TANKS IN BUILDING 6

IEPA Number	Valspar Number	Volume (gallons)	Tank Cleaned[a]	Tank Pressure-Tested[b]	Past Contents[c]	Current Contents[d]
094	030	2,500	No	No	Resin and oil[e]	Empty
095	029	2,500	No	No	Resin and oil[e]	Empty
096	028	2,500	No	No	Resin and oil[e]	Empty
097	027	2,500	No	No	Resin and oil[e]	Empty
098	026	2,500	No	No	Resin and oil[f]	Liquid, solid
099	025	2,500	No	No	Resin and oil[e]	Empty
100	024	2,500	No	No	Linseed oil Z2, 7m37[f]	Liquid, skin
101	023	2,500	Yes	No	Linseed oil Z2, 7m37 (D001)	Empty
102	022	5,000	No	No	Resin and oil[e]	Empty
103	021	2,500	No	No	Resin and oil[f]	Liquid
104	020	2,500	No	No	Resin and oil[f]	Rubbery solid
105	019	2,500	No	No	Alkyd resin, 20r48[f]	Liquid
106	018	2,500	No	No	Resin and oil[f]	Liquid, skin
107	017	5,000	No	No	Alkyd resin, 20r48[f]	Skin
108	016	5,000	Yes	No	Alkyd resin, 40r48 (D001)	Empty
109	015	5,000	No	No	Propylene glycol[e]	Empty
110	014	5,000	No	No	Ethylene glycol[e]	Empty
111	013	5,000	No	No	Hexylene glycol[e]	Empty
112	054	2,500	No	No	Resin and oil[e]	Empty
113	053	2,500	No	No	Alkyd resin, 21m327[f]	Solid
114	052	2,500	Yes	No	Resin and oil (D001)	Empty
115	051	2,500	Yes	No	Resin and oil (D001)	Empty

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TABLE G-12 (Continued)

SUMMARY OF ABOVEGROUND STORAGE TANKS IN BUILDING 6

IEPA Number	Valspar Number	Volume (gallons)	Tank Cleaned[a]	Tank Pressure-Tested[b]	Past Contents[c]	Current Contents[d]
116	050	2,500	Yes	No	Resin and oil (D001)	Empty
117	049	2,500	Yes	No	Resin and oil (D001)	Empty
118	048	2,500	Yes	No	Resin and oil (D001)	Empty
119	047	2,500	No	No	Resin and oil[e]	Empty
120	046	2,500	No	No	Resin and oil[e]	Empty
121	045	2,500	Yes	No	Resin and oil (D001)	Empty
122	044	2,500	No	No	Alkyd resin, 19m407[f]	Yellow gel, liquid
123	043	2,500	Yes	No	Resin and oil (D001)	Empty
124	042	2,500	Yes	No	Resin and oil (D001)	Empty
125	041	2,500	Yes	No	Resin and oil (D001)	Empty
126	040	2,500	Yes	No	Resin and oil (D001)	Empty
127	039	2,500	Yes	No	Resin and oil (D001)	Empty
128	038	2,500	Yes	No	Resin and oil (D001)	Empty
129	037	2,500	Yes	No	Resin and oil (D001)	Empty
130	036	1,250	No	No	Resin and oil[e]	Empty
131	035	1,250	No	No	Resin and oil[f]	Liquid, skin
132	034	1,250	No	No	Resin and oil[f]	Liquid, skin
133	033	1,250	No	No	Resin and oil[e]	Empty
134	032	2,500	No	No	Resin and oil[e]	Empty
135	031	2,500	No	No	Resin and oil[e]	Empty
136	055	2,500	No	No	Resin and oil[f]	Brittle, brown solid
137	056	2,500	Yes	No	Resin and oil (D001)	Empty

TABLE G-12 (Continued)

SUMMARY OF ABOVEGROUND STORAGE TANKS IN BUILDING 6

IEPA Number	Valspar Number	Volume (gallons)	Tank Cleaned[a]	Tank Pressure-Tested[b]	Past Contents[c]	Current Contents[d]
138	059[g]	2,500	Yes	No	Alkyd resin, 19m39 (D001)	Empty
139	060	2,500	Yes	No	Resin and oil (D001)	Empty
140	061	2,500	Yes	No	Resin and oil (D001)	Empty
141	062	2,500	Yes	No	Resin and oil (D001)	Empty
142	063	2,500	No	No	Alkyd resin, 19m7[f]	Orange jelly, liquid
143	064	2,500	Yes	No	Alkyd resin, 19m7 (D001)	Empty
144	065	2,500	No	No	Alkyd resin, 19m7[f]	Yellow solid skin
145	066	2,500	No	No	Alkyd resin, 19m7[f]	Thick skin jelly
146	067	5,000	Yes	No	Resin and oil (D001)	Empty
147	068	5,000	Yes	No	Resin and oil (D001)	Empty
148	069	5,000	Yes	No	Alkyd resin, 19m20 (D001)	Empty
149	070	5,000	No	No	Resin and oil[f]	Hard skin, rubber
150	075	6,500	Yes	No	Alkyd resin, 19m100 (D001)	Empty
151	076	6,500	Yes	No	Alkyd resin, 19m100 (D001)	Empty
152	077	8,000	No	No	Resin and oil[f]	Rubber solid
153	078	8,000	Yes	No	Resin and oil (D001)	Empty
154	079	8,000	Yes	No	Resin and oil (D001)	Empty
155	080	8,000	Yes	No	Alkyd resin, 21m125 (D001)	Empty
156	081	4,250	Yes	No	Resin and oil (D001)	Empty
157	082	4,250	Yes	No	Resin and oil (D001)	Empty
158	083	4,250	Yes	No	Urethane, 42m10 oil (D001)	Empty
159	084	4,250	No	No	Resin and oil[f]	Clear solid

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TABLE G-12 (Continued)

SUMMARY OF ABOVEGROUND STORAGE TANKS IN BUILDING 6

IEPA Number	Valspar Number	Volume (gallons)	Tank Cleaned[a]	Tank Pressure-Tested[b]	Past Contents[c]	Current Contents[d]
160	012	800	No	No	Resin and oil[e]	Empty
161	011	800	No	No	Resin and oil[e]	Empty
162	010	800	No	No	Resin and oil[e]	Empty
163	009	800	No	No	Resin and oil[e]	Empty
164	008	800	No	No	Resin and oil[f]	Carmel-colored liquid
165	007	800	No	No	Resin and oil[e]	Empty
166	006	800	No	No	Resin and oil[f]	Honey-colored liquid
167	005	800	No	No	Resin and oil[e]	Empty
168	004	800	No	No	Resin and oil[e]	Empty
169	003	800	Yes	No	Resin and oil (D001)	Empty
170	002	800	Yes	No	Resin and oil (D001)	Empty
171	001	800	Yes	No	Resin and oil (D001)	Empty
172	085	2,500	Yes	No	Resin and oil (D001)	Empty
173	086	2,500	No	No	Resin and oil[f]	Hard, clear solid
174	087	2,500	No	No	Alkyd resin, 19m258[f]	Liquid, brown solid
175	088	2,500	No	No	Alkyd resin, 19m258[f]	Soft solid
176	089	2,500	No	No	Alkyd resin, 19m258[f]	Honey-colored liquid
177	090	2,500	Yes	No	Resin and oil (D001)	Empty
178	091	2,500	Yes	No	Resin and oil (D001)	Empty
179	092	2,500	No	No	Alkyd resin, 19m39[f]	Soft skin
180	093	2,500	No	No	Resin and oil[f]	Liquid, solid
181	094	2,500	No	No	Resin and oil[f]	Liquid, solid

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TABLE G-12 (Continued)

SUMMARY OF ABOVEGROUND STORAGE TANKS IN BUILDING 6

IEPA Number	Valspar Number	Volume (gallons)	Tank Cleaned[a]	Tank Pressure-Tested[b]	Past Contents[c]	Current Contents[d]
182	095	2,500	Yes	No	Resin and oil (D001)[h]	Empty
183	096	2,500	No	No	Ta100 Chemcoid, 7f70[f]	Liquid
184	074	1,250	Yes	No	Resin and oil (D001)	Empty
185	073	1,250	No	No	Resin and oil[e]	Empty
186	072	1,250	No	No	Resin and oil[e]	Empty
187	071	1,250	No	No	Resin and oil[e]	Empty
188	106	2,500	No	No	Resin and oil[f]	Skin, liquid
189	105	2,500	No	No	Resin and oil[f]	Skin, liquid
190	104	1,250	No	No	Resin and oil[f]	Skin, liquid
191	103	1,250	No	No	Resin and oil[e]	Empty
192	102	1,250	No	No	Resin and oil[e]	Empty
193	101	1,250	No	No	Resin and oil[e]	Empty
194	100	2,500	No	No	Resin and oil[f]	Skin, liquid
195	099	2,500	Yes	No	Resin and oil (D001)	Empty
196	098	2,500	No	No	Alkyd resin, 19m390[f]	Honey-colored liquid, skin
197	097	2,500	No	No	Alkyd resin, 19m390[f]	Honey-colored liquid, skin

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TABLE G-12 (Continued)

SUMMARY OF ABOVEGROUND STORAGE TANKS IN BUILDING 6

Notes:

[a] Tanks were cleaned in 1985 during response actions initiated by the 4(q) Notice.

[b] Tanks were pressure-tested in 1986 and 1987 by Kinsey.

[c] Tank contents were estimated in 1985 during response actions inititated by the 4(q) Notice.

[d] Current tank contents were inventoried by Valspar in the October 1990 Settlement Proposal.

[e] Tank was empty in 1985 during response actions initiated by the 4(q) Notice.

[f] Material is nonhazardous according to IT, 1990b.

[g] There is some uncertainty regarding the correct Valspar identification number for this tank.

[h] Material was shipped as D002 waste according to Waste Reduction, 1985. PRC believes that the material was probably D001 waste.

Sources: IT, 1990b; Kinsey, 1987; Waste Reduction, 1985

TABLE G-13

SUMMARY OF ABOVEGROUND STORAGE TANKS IN BUILDING 6-A

IEPA Number	Valspar Number	Volume (gallons)	Tank Cleaned[a]	Tank Pressure-Tested[b]	Past Contents[c]	Current Contents[d]
091	--	350	No	No	Unknown[e]	Liquid
092	--	350	No	No	Unknown[e]	Liquid
093	--	150	No	No	Unknown[f]	Empty

Notes:

[a] Tanks were cleaned in 1985 during response actions initiated by the 4(q) Notice.

[b] Tanks were pressure-tested in 1986 and 1987 by Kinsey.

[c] Tank contents were estimated in 1985 during response actions inititated by the 4(q) Notice.

[d] Current tank contents were inventoried by Valspar in the October 1990 Settlement Proposal.

[e] Material is nonhazardous according to IT, 1990b.

[f] Tank was empty in 1985 during response actions initiated by the 4(q) Notice.

Sources: IT, 1990b; Kinsey, 1987; Waste Reduction, 1985

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TABLE G-14

SUMMARY OF ABOVEGROUND STORAGE TANKS ON THE THIRD FLOOR OF BUILDING 7

IEPA Number	Valspar Number	Volume (gallons)	Tank Cleaned[a]	Tank Pressure-Tested[b]	Past Contents[c]	Current Contents[d]
--	Glue Pot	10	No	No	Glue[e]	Glue
030	027	1,000	No	No	Paint mixtures[f]	Empty
031	026	450	No	No	Paint mixtures[f]	Empty
032	025	450	No	No	Paint mixtures[f]	Empty
033	024	450	No	No	Paint mixtures[f]	Empty
034	023	450	No	No	Paint mixtures[f]	Empty
035	022	450	No	No	Paint mixtures[f]	Empty
036	021	900	No	No	Paint mixtures[f]	Empty
037	020	900	No	No	Paint mixtures[f]	Empty
038	019	900	No	No	Paint mixtures[f]	Empty
039	018	900	No	No	Paint mixtures[f]	Empty
040	017	900	No	No	Paint mixtures[g]	Solid
041	016	1,600	Yes	No	Liquid organic waste[h] (D001, D008)	Empty
042	015	1,600	Yes	No	Liquid organic waste[h] (D001, D008)	Empty
043	014	900	No	No	Paint mixtures[f]	Empty
044	013	900	No	No	Paint mixtures[f]	Empty
045	012	900	No	No	Paint mixtures[f]	Empty
046	011	1,000	No	No	Paint mixtures[f]	Empty
047	010	900	No	No	Paint mixtures[f]	Empty
048	009	900	Yes	No	Paint mixtures (D001)	Empty
049	008	900	No	No	Paint mixtures[e]	Solid

TABLE G-14 (Continued)

SUMMARY OF ABOVEGROUND STORAGE TANKS ON THE THIRD FLOOR OF BUILDING 7

Notes:

[a] Tanks were cleaned in 1985 during response actions initiated by the 4(q) Notice.

[b] Tanks were pressure-tested in 1986 and 1987 by Kinsey.

[c] Tank contents were estimated in 1985 during response actions inititated by the 4(q) Notice.

[d] Current tank contents were inventoried by Valspar in the October 1990 Settlement Proposal.

[e] Material is nonhazardous according to IT, 1990b.

[f] Tank was empty in 1985 during response actions initiated by the 4(q) Notice.

[g] Tank is classified as "Empty - Solid" according to IT, 1990b.

[h] Tank contained "Mixed Liquid Organic Waste For Disposal In Industrial Fabricated Fuel Program" according to IT, 1990b.

Sources: IT, 1990b; Kinsey, 1987; Waste Reduction, 1985

TABLE G-15

SUMMARY OF ABOVEGROUND STORAGE TANKS ON THE FIFTH FLOOR OF BUILDING 7

IEPA Number	Valspar Number	Volume (gallons)	Tank Cleaned[a]	Tank Pressure-Tested[b]	Past Contents[c]	Current Contents[d]
072	–	500	No	No	Unknown[e]	Rust colored liquid
073	–	500	No	No	Unknown[f]	Empty
074	–	500	No	No	Unknown[f]	Empty
075[g]	–	500[g]	Yes[h]	No[h]	Unknown[g] (D001)	Empty[h]

Notes:

[a] Tanks were cleaned in 1985 during response actions initiated by the 4(q) Notice.

[b] Tanks were pressure-tested in 1986 and 1987 by Kinsey.

[c] Tank contents were estimated in 1985 during response actions inititated by the 4(q) Notice.

[d] Current tank contents were inventoried by Valspar in the October 1990 Settlement Proposal.

[e] Material is nonhazardous according to IT, 1990b.

[f] Tank was empty in 1985 during response actions initiated by the 4(q) Notice.

[g] Tank was not identified in IT, 1990b.

[h] PRC assumes that the tank was emptied and cleaned because the material it contained was considered hazardous in 1985 during response actions initiated by the 4(q) Notice.

Sources: IT, 1990b; Kinsey, 1987; Waste Reduction, 1985

E62

TABLE G-16

SUMMARY OF ABOVEGROUND STORAGE TANK IN BUILDING 7-B

IEPA Number	Valspar Number	Volume (gallons)	Tank Cleaned[a]	Tank Pressure-Tested[b]	Past Contents[c]	Current Contents[d]
090	--	800	No	No	Unknown[e]	Caustic sludge

Notes:

[a] Tanks were cleaned in 1985 during response actions initiated by the 4(q) Notice.

[b] Tanks were pressure-tested in 1986 and 1987 by Kinsey.

[c] Tank contents were estimated in 1985 during response actions inititated by the 4(q) Notice.

[d] Current tank contents were inventoried by Valspar in the October 1990 Settlement Proposal.

[e] Material is nonhazardous according to IT, 1990b.

Sources: IT, 1990b; Kinsey, 1987; Waste Reduction, 1985

E63

TABLE G-17

SUMMARY OF ABOVEGROUND STORAGE TANKS ON THE THIRD FLOOR OF BUILDING 8

IEPA Number	Valspar Number	Volume (gallons)	Tank Cleaned[a]	Tank Pressure-Tested[b]	Past Contents[c]	Current Contents[d]
050	007	900	No	No	Paint mixtures[e]	Empty
051	006	1,600	Yes	No	Paint mixtures[f] (D001)	Empty
052	005	1,600	Yes	No	Paint mixtures[f] (D001)	Empty
053	004	1,600	Yes	No	Paint mixtures[f] (D001)	Empty
054	003	1,600	Yes	No	Paint mixtures[f] (D001)	Empty
055	002	1,600	Yes	No	Paint mixtures[f] (D001)	Empty
056	001	1,600	Yes	No	Paint mixtures[f] (D001)	Empty
057	033	800	No	No	Paint mixtures[e]	Empty
058	034	800	No	No	Paint mixtures[e]	Empty
059	035	1,600	Yes	No	Paint mixtures[f] (D001)	Empty
060	036	800	No	No	Paint mixtures[e]	Empty
061	037	800	No	No	Paint mixtures[e]	Empty
062	087	1,300	No	No	Paint mixtures[e]	Empty
063	038	550	No	No	Cleaning solvents[e]	Empty
064	039	550	No	No	Cleaning solvents[e]	Empty
065	040	550	No	No	Cleaning solvents[e]	Empty
066	041	550	No	No	Cleaning solvents[e]	Empty
067	090	1,000	No	No	Unknown[g,h]	Liquid

E64

TABLE G-17 (Continued)

SUMMARY OF ABOVEGROUND STORAGE TANKS ON THE THIRD FLOOR OF BUILDING 8

Notes:

[a] Tanks were cleaned in 1985 during response actions initiated by the 4(q) Notice.

[b] Tanks were pressure-tested in 1986 and 1987 by Kinsey.

[c] Tank contents were estimated in 1985 during response actions inititated by the 4(q) Notice.

[d] Current tank contents were inventoried by Valspar in the October 1990 Settlement Proposal.

[e] Tank was empty in 1985 during response actions initiated by the 4(q) Notice.

[f] Material from Tanks 051, 052, 053, 054, 055, 056, and 059 was composited and sampled during the 1985 4(q) response action.

[g] Material is nonhazardous according to IT, 1990b.

[h] Tank was not used by Valspar according to IT, 1990b.

Sources: IT, 1990b; Kinsey, 1987; Waste Reduction, 1985

E65

TABLE G-18

SUMMARY OF ABOVEGROUND STORAGE TANKS ON THE FIRST FLOOR OF BUILDING 10

IEPA Number	Valspar Number	Volume (gallons)	Tank Cleaned[a]	Tank Pressure-Tested[b]	Past Contents[c]	Current Contents[d]
--	--	60	No	No	Acids[e]	Empty
--	CT1	1,200	No	No	Caustic wastewater[f,g]	Solid
--	CT2	1,200	No	No	Caustic wastewater[f,g]	Liquid
--	CT3	1,200	No	No	Caustic wastewater[f,g]	Liquid
001	S-149	8,000	No	No	Unknown[e]	Empty
002	S-150	8,000	No	No	Unknown[e]	Empty
003	S-151	8,000	No	No	Paint mixtures[f,h]	Liquid, solid
004	S-152	8,000	No	No	Paint mixtures[f,h]	Liquid, solid

Notes:

[a] Tanks were cleaned in 1985 during response actions initiated by the 4(q) Notice.

[b] Tanks were pressure-tested in 1986 and 1987 by Kinsey.

[c] Tank contents were estimated in 1985 during response actions inititated by the 4(q) Notice.

[d] Current tank contents were inventoried by Valspar in the October 1990 Settlement Proposal.

[e] Tank was empty in 1985 during response actions initiated by the 4(q) Notice.

[f] Material is nonhazardous according to IT, 1990b.

[g] This tank was used to neutralize caustic wastewater according to IT, 1990b.

[h] Material from Tanks 003 and 004 was composited and sampled during the 1985 4(q) response action.

Sources: IT, 1990b; Kinsey, 1987; Waste Reduction, 1985

TABLE G-19

SUMMARY OF ABOVEGROUND STORAGE TANKS ON THE SECOND FLOOR OF BUILDING 10

IEPA Number	Valspar Number	Volume (gallons)	Tank Cleaned[a]	Tank Pressure-Tested[b]	Past Contents[c]	Current Contents[d]
005	–	3,800	No	No	Unknown[e]	Solid black residue
006	–	3,800	No	No	Unknown[e]	Solid black residue
OIL[f]	–	800[f]	No[f]	No[f]	Clear, yellow oil[f]	Clear, yellow oil

Notes:

[a] Tanks were cleaned in 1985 during response actions initiated by the 4(q) Notice.

[b] Tanks were pressure-tested in 1986 and 1987 by Kinsey.

[c] Tank contents were estimated in 1985 during response actions inititated by the 4(q) Notice.

[d] Current tank contents were inventoried by Valspar in the October 1990 Settlement Proposal.

[e] Material is nonhazardous according to IT, 1990b.

[f] Tank was not identified in IT, 1990b. Material is nonhazardous according to Waste Reduction, 1985.

Sources: IT, 1990b; Kinsey, 1987; Waste Reduction, 1985

E67

TABLE G-20

SUMMARY OF ABOVEGROUND STORAGE TANKS IN THE BASEMENT OF BUILDING 11

IEPA Number	Valspar Number	Volume (gallons)	Tank Cleaned[a]	Tank Pressure-Tested[b]	Past Contents[c]	Current Contents[d]
–	U-15	4,000	No	No	Unknown[e,f]	Empty
–	U-16	4,000	No	No	Unknown[e,f]	Empty
–	U-18	4,000	No	No	Unknown[e,f]	Empty
–	U-20	4,000	No	No	Unknown[e,f]	Empty

Notes:

[a] Tanks were cleaned in 1985 during response actions initiated by the 4(q) Notice.

[b] Tanks were pressure-tested in 1986 and 1987 by Kinsey.

[c] Tank contents were estimated in 1985 during response actions inititated by the 4(q) Notice.

[d] Current tank contents were inventoried by Valspar in the October 1990 Settlement Proposal.

[e] Tank was empty in 1985 during response actions initiated by the 4(q) Notice.

[f] Tank was not used by Valspar according to IT, 1990b.

Sources: IT, 1990b; Kinsey, 1987; Waste Reduction, 1985

TABLE G-21

SUMMARY OF ABOVEGROUND STORAGE TANK ON THE FIRST FLOOR OF BUILDING 11

IEPA Number	Valspar Number	Volume (gallons)	Tank Cleaned[a]	Tank Pressure-Tested[b]	Past Contents[c]	Current Contents[d]
007	–	5,000	No	No	Titanium dioxide slurry[e]	White sludge

Notes:

[a] Tanks were cleaned in 1985 during response actions initiated by the 4(q) Notice.

[b] Tanks were pressure-tested in 1986 and 1987 by Kinsey.

[c] Tank contents were estimated in 1985 during response actions inititated by the 4(q) Notice.

[d] Current tank contents were inventoried by Valspar in the October 1990 Settlement Proposal.

[e] Material is nonhazardous according to IT, 1990b.

Sources: IT, 1990b; Kinsey, 1987; Waste Reduction, 1985

E69

TABLE G-22

SUMMARY OF ABOVEGROUND STORAGE TANKS IN THE BASEMENT OF BUILDING 12

IEPA Number	Valspar Number	Volume (gallons)	Tank Cleaned[a]	Tank Pressure-Tested[b]	Past Contents[c]	Current Contents[d]
077	--	1,200	No	No	Caustic wastewater[e]	Empty
078	--	1,200	No	No	Caustic wastewater[f,g]	Liquid
079	--	1,200	No	No	Caustic wastewater[f,g]	Solid

Notes:

[a] Tanks were cleaned in 1985 during response actions initiated by the 4(q) Notice.

[b] Tanks were pressure-tested in 1986 and 1987 by Kinsey.

[c] Tank contents were estimated in 1985 during response actions inititated by the 4(q) Notice.

[d] Current tank contents were inventoried by Valspar in the October 1990 Settlement Proposal.

[e] Tank was empty in 1985 during response actions initiated by the 4(q) Notice.

[f] Material from Tanks 078 and 079 was composited and sampled during the 1985 4(q) response action.

[g] Material is nonhazardous according to IT, 1990b.

Sources: IT, 1990b; Kinsey, 1987; Waste Reduction, 1985

TABLE G-23

SUMMARY OF ABOVEGROUND STORAGE TANKS ON THE THIRD FLOOR OF BUILDING 12

IEPA Number	Valspar Number	Volume (gallons)	Tank Cleaned[a]	Tank Pressure-Tested[b]	Past Contents[c]	Current Contents[d]
–	CAUSTIC	30	No	No	Caustic wastewater[e]	Sludge, clear liquid
–	029	1,600[f]	No	No	Unknown[e,g]	White solid
008	084	1,000	No	No	Paint mixtures[h]	Empty
009	083	1,000	No	No	Paint mixtures[h]	Empty
010	082	1,000	No	No	Paint mixtures[h]	Empty
011	081	1,000	No	No	Paint mixtures[h]	Empty
012	079	900	No	No	Paint mixtures[h]	Empty
013	078	900	No	No	Paint mixtures[e]	Clear liquid
014	077	900	No	No	Paint mixtures[h]	Empty
015	076	900	No	No	Paint mixtures[h]	Empty
016	075	900	No	No	Paint mixtures[h]	Empty
017	074	900	No	No	Paint mixtures[h]	Empty
018	073	900	No	No	Paint mixtures[h]	Empty
019	072	900	No	No	Paint mixtures[h]	Empty
020	071	900	No	No	Paint mixtures[h]	Empty
021	070	900	No	No	Paint mixtures[h]	Empty
022	069	900	No	No	Paint mixtures[h]	Empty
023	068	900	No	No	Paint mixtures[h]	Empty
024	067	900	No	No	Paint mixtures[h]	Empty
025	066	900	No	No	Paint mixtures[h]	Empty
026	065	900	No	No	Paint mixtures[h]	Empty
027	064	900	No	No	Paint mixtures[h]	Empty

TABLE G-23 (Continued)

SUMMARY OF ABOVEGROUND STORAGE TANKS ON THE THIRD FLOOR OF BUILDING 12

IEPA Number	Valspar Number	Volume (gallons)	Tank Cleaned[a]	Tank Pressure-Tested[b]	Past Contents[c]	Current Contents[d]
028	063	900	No	No	Paint mixtures[h]	Empty
029	062	900	No	No	Unknown[g,h]	Empty

Notes:

[a] Tanks were cleaned in 1985 during response actions initiated by the 4(q) Notice.

[b] Tanks were pressure-tested in 1986 and 1987 by Kinsey.

[c] Tank contents were estimated in 1985 during response actions inititated by the 4(q) Notice.

[d] Current tank contents were inventoried by Valspar in the October 1990 Settlement Proposal.

[e] Material is nonhazardous according to IT, 1990b.

[f] Volume reported as 0 gallons in IT, 1990b. Volume reported as 1,600 gallons in Waste Reduction, 1985.

[g] Tank was not used by Valspar according to IT, 1990b.

[h] Tank was empty in 1985 during response actions initiated by the 4(q) Notice.

Sources: IT, 1990b; Kinsey, 1987; Waste Reduction, 1985

TABLE G-24

SUMMARY OF ABOVEGROUND STORAGE TANK ON THE FOURTH FLOOR OF BUILDING 12

IEPA Number	Valspar Number	Volume (gallons)	Tank Cleaned[a]	Tank Pressure-Tested[b]	Past Contents[c]	Current Contents[d]
068	–	800	No	No	Caustic wastewater[e]	Caustic sludge

Notes:

[a] Tanks were cleaned in 1985 during response actions initiated by the 4(q) Notice.

[b] Tanks were pressure-tested in 1986 and 1987 by Kinsey.

[c] Tank contents were estimated in 1985 during response actions inititated by the 4(q) Notice.

[d] Current tank contents were inventoried by Valspar in the October 1990 Settlement Proposal.

[e] Material is nonhazardous according to IT, 1990b.

Sources: IT, 1990b; Kinsey, 1987; Waste Reduction, 1985

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TABLE G-25

SUMMARY OF ABOVEGROUND STORAGE TANKS ON THE FIFTH FLOOR OF BUILDING 12

IEPA Number	Valspar Number	Volume (gallons)	Tank Cleaned[a]	Tank Pressure-Tested[b]	Past Contents[c]	Current Contents[d]
069	LT3	500	No	No	Unknown[e,f]	Empty
070	–	500	No	No	Unknown[e]	Empty
071	–	500	No	No	Unknown[e,f]	Empty

Notes:

[a] Tanks were cleaned in 1985 during response actions initiated by the 4(q) Notice.

[b] Tanks were pressure-tested in 1986 and 1987 by Kinsey.

[c] Tank contents were estimated in 1985 during response actions inititated by the 4(q) Notice.

[d] Current tank contents were inventoried by Valspar in the October 1990 Settlement Proposal.

[e] Tank was empty in 1985 during response actions initiated by the 4(q) Notice.

[f] Tank was not used by Valspar according to IT, 1990b.

Sources: IT, 1990b; Kinsey, 1987; Waste Reduction, 1985

TABLE G-26

SUMMARY OF FORMER ABOVEGROUND STORAGE TANKS IN BUILDING 15-A

IEPA Number	Valspar Number	Volume (gallons)	Tank Cleaned[a]	Tank Pressure-Tested[b]	Past Contents[c]	Current Contents[d]
–	212	12,000	No	No	Vinyl acrylic emulsion	Empty[e]
–	213	12,000	No	No	Acrylic emulsion	Empty[e]
–	215	12,000	No	No	Acrylic emulsion	Empty[e]

Notes:

[a] Tanks were cleaned in 1985 during response actions initiated by the 4(q) Notice.

[b] Tanks were pressure-tested in 1986 and 1987 by Kinsey.

[c] Tank contents were estimated in 1985 during response actions inititated by the 4(q) Notice.

[d] Current tank contents were inventoried by Valspar in the October 1990 Settlement Proposal.

[e] Tank was removed before 1985.

Sources: IT, 1990b; Kinsey, 1987; Waste Reduction, 1985

E75

TABLE G-27

SUMMARY OF ABOVEGROUND STORAGE TANKS IN BUILDING 15-B

IEPA Number	Valspar Number	Volume (gallons)	Tank Cleaned[a]	Tank Pressure-Tested[b]	Past Contents[c]	Current Contents[d]
235	207	4,500	No	No	Acrylic emulsion[e]	Empty
236	208	4,500	No	No	Acrylic emulsion[e]	Empty
237	209	4,500	No	No	Brown oil[f]	Brown oil
238	210	2,100	No	No	Latex[f]	Latex liquid
239	211	4,000	No	No	Acrylic emulsion[f]	Latex liquid

Notes:

[a] Tanks were cleaned in 1985 during response actions initiated by the 4(q) Notice.

[b] Tanks were pressure-tested in 1986 and 1987 by Kinsey.

[c] Tank contents were estimated in 1985 during response actions inititated by the 4(q) Notice.

[d] Current tank contents were inventoried by Valspar in the October 1990 Settlement Proposal.

[e] Tank was empty in 1985 during response actions initiated by the 4(q) Notice.

[f] Material is nonhazardous according to IT, 1990b.

Sources: IT, 1990b; Kinsey, 1987; Waste Reduction, 1985

F

Fill-in areas are spaced for elite type, i.e., 12 cha... rs/inch).

Form Appr... OMB No. 158-R0170

FORM 1 GENERAL

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY

GENERAL INFORMATION

Consolidated Permits Program

(Read the "General Instructions" before starting.)

I. EPA I.D. NUMBER

F ILD081040107

LABEL ITEMS

I. EPA I.D. NUMBER

III. FACILITY NAME

V. FACILITY MAILING ADDRESS

VI. FACILITY LOCATION

PLEASE PLACE LABEL IN THIS SPACE

GENERAL INSTRUCTIONS

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent *(the area to the left of the label space lists the information that should appear)*, please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete Items I, III, V, and VI *(except VI-B which must be completed regardless)*. Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms.

SPECIFIC QUESTIONS	MARK 'X' YES	NO	FORM ATTACHED	SPECIFIC QUESTIONS	MARK 'X' YES	NO	FORM ATTACHED
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)		X		B. Does or will this facility *(either existing or proposed)* include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)		X	
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)		X		D. Is this a proposed facility *(other than those described in A or B above)* which will result in a discharge to waters of the U.S.? (FORM 2D)		X	
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)	X		X	F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X		H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X		J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	

III. NAME OF FACILITY

SKIP VALSPAR CORPORATION

IV. FACILITY CONTACT

A. NAME & TITLE (Last, First, & Title)	B. PHONE (area code & no.)
MARK LEVINE PLANT MGR.	312 762 7000

V. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX

1330 S. KILBOURN AVENUE

B. CITY OR TOWN	C. STATE	D. ZIP CODE
CHICAGO	IL	60623

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER

1330 S. KILBOURN AVENUE

B. COUNTY NAME

COOK

C. CITY OR TOWN	D. STATE	E. ZIP CODE	F. COUNTY CODE
CHICAGO	IL	60623	031

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EPA Form 3510-1 (6-80)

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

VII. SIC CODES (4-digit, in order of priority)

A. FIRST	B. SECOND
7 2851 (specify) PAINT PRODUCTION	7 (specify)
C. THIRD	**D. FOURTH**
7 (specify)	7 (specify)

VIII. OPERATOR INFORMATION

A. NAME: VALSPAR CORPORATION

B. Is the name listed in Item VIII-A also the owner? [X] YES [ ] NO

C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box. If "Other", specify.)
F = FEDERAL, S = STATE, P = PRIVATE, M = PUBLIC (other than federal or state), O = OTHER (specify)
P (specify)

D. PHONE (area code & no.): A 312 762 7000

E. STREET OR P.O. BOX: 1330 S. KILBOURN AVENUE

F. CITY OR TOWN: B CHICAGO

G. STATE: IL

H. ZIP CODE: 60623

IX. INDIAN LAND

Is the facility located on Indian lands? [ ] YES [X] NO

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES (Discharges to Surface Water)	D. PSD (Air Emissions from Proposed Sources)
9 N	9 P
B. UIC (Underground Injection of Fluids)	**E. OTHER (specify)**
9 U	9 (specify)
C. RCRA (Hazardous Wastes)	**E. OTHER (specify)**
9 R	9 (specify)

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

Fa: A/50

XII. NATURE OF BUSINESS (provide a brief description)

Fa: A/51

Manufacturing of Paint

XIII. CERTIFICATION (see instructions)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE (type or print)	B. SIGNATURE	C. DATE SIGNED
John F. Wheely V.P. Operations	John F. Wheely	10/15/81

COMMENTS FOR OFFICIAL USE ONLY

Form Approved OMB No. 158-S0004

FORM 3 RCRA

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY

HAZARDOUS WASTE PERMIT APPLICATION

Consolidated Permits Program

(This information is required under Section 3005 of RCRA.)

I. EPA I.D. NUMBER

F I L D 0 8 1 0 4 0 1 0 7 3 1

FOR OFFICIAL USE ONLY

APPLICATION APPROVED	DATE RECEIVED (yr., mo., & day)	COMMENTS

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below *(mark one box only)* to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA I.D. Number, or if this is a revised application, enter your facility's EPA I.D. Number in Item I above.

A. FIRST APPLICATION *(place an "X" below and provide the appropriate date)*

[X] 1. EXISTING FACILITY *(See instructions for definition of "existing" facility. Complete item below.)*

FOR EXISTING FACILITIES, PROVIDE THE DATE *(yr., mo., & day)* OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED *(use the boxes to the left)*

YR.	MO.	DAY
74	01	01

[ ] 2. NEW FACILITY *(Complete item below.)*

FOR NEW FACILITIES, PROVIDE THE DATE *(yr., mo., & day)* OPERATION BEGAN OR IS EXPECTED TO BEGIN

YR.	MO.	DAY

B. REVISED APPLICATION *(place an "X" below and complete Item I above)*

[ ] 1. FACILITY HAS INTERIM STATUS

[ ] 2. FACILITY HAS A RCRA PERMIT

III. PROCESSES – CODES AND DESIGN CAPACITIES

A. PROCESS CODE – Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code*(s)* in the space provided. If a process will be used that is not included in the list of codes below, then describe the process *(including its design capacity)* in the space provided on the form *(Item III-C)*.

B. PROCESS DESIGN CAPACITY – For each code entered in column A enter the capacity of the process.

1. AMOUNT – Enter the amount.
2. UNIT OF MEASURE – For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:		
CONTAINER *(barrel, drum, etc.)*	S01	GALLONS OR LITERS
TANK	S02	GALLONS OR LITERS
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS
Disposal:		
INJECTION WELL	D79	GALLONS OR LITERS
LANDFILL	D80	ACRE-FEET *(the volume that would cover one acre to a depth of one foot)* OR HECTARE-METER
LAND APPLICATION	D81	ACRES OR HECTARES
OCEAN DISPOSAL	D82	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	D83	GALLONS OR LITERS

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Treatment:		
TANK	T01	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR
OTHER *(Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Item III-C.)*	T04	GALLONS PER DAY OR LITERS PER DAY

UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G	LITERS PER DAY	V	ACRE-FEET	A
LITERS	L	TONS PER HOUR	D	HECTARE-METER	F
CUBIC YARDS	Y	METRIC TONS PER HOUR	W	ACRES	B
CUBIC METERS	C	GALLONS PER HOUR	E	HECTARES	Q
GALLONS PER DAY	U	LITERS PER HOUR	H		

EXAMPLE FOR COMPLETING ITEM III *(shown in line numbers X-1 and X-2 below)*: A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

C DUP 3 1

LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY 1. AMOUNT (specify)	B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY	LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY 1. AMOUNT	B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY
X-1	S02	600	G		5				
X-2	T03	20	E		6				
1	S01	10,000 000	G		7				
2	S02	4,000 000	G		8				
3					9				
4					10				

NOV 18 1980

CONTINUE ON REVERSE

177

III. PROCESSES *(continued)*

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES *(code "T04")*. FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

IV. DESCRIPTION OF HAZARDOUS WASTES

A. **EPA HAZARDOUS WASTE NUMBER** – Enter the four–digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four–digit number*(s)* from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.

B. **ESTIMATED ANNUAL QUANTITY** – For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non–listed waste*(s)* that will be handled which possess that characteristic or contaminant.

C. **UNIT OF MEASURE** – For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. **PROCESSES**

1. **PROCESS CODES:**
   For listed hazardous waste: For each listed hazardous waste entered in column A select the code*(s)* from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.
   For non–listed hazardous wastes: For each characteristic or toxic contaminant entered in column A, select the code*(s)* from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non–listed hazardous wastes that possess that characteristic or toxic contaminant.
   Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code*(s)*.

2. **PROCESS DESCRIPTION:** If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER – Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B,C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM IV *(shown in line numbers X-1, X-2, X-3, and X-4 below)* – A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non–listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (If a code is not entered in D(1))
X-1	K054	900	P	T03 D80	
X-2	D002	400	P	T03 D80	
X-3	D001	100	P	T03 D80	
X-4	D002				included with above

CONTINUE ON PAGE 3

Continued from page 2.

NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
W I L D 0 8 1 0 4 0 1 0 7 3 1	W DUP 3 2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	~~K 0 7 8~~ D001	~~200,000 000~~	~~P~~	~~S 0 1~~	
2	~~K 0 7 9~~ D002	~~125,000 000~~	~~P~~	~~S 0 1~~	
3	~~K 0 8 0~~ D002	~~150,000 000~~	~~P~~	~~S 0 1~~	
4	~~K 0 8 1~~ D002	~~130,000 000~~	~~P~~	~~S 0 2~~	
5	~~D 0 0 8~~	~~1000 000~~	~~P~~	~~S 0 1~~	
6	~~F 0 0 3~~	~~125,000 000~~	~~P~~	~~S 0 1~~	
7	~~K 0 8 2~~	~~2,000 000~~	~~P~~	~~S 0 1~~	
8	~~D008~~				
9					
10	D001	200 000 000	P	S01	
11	~~D002~~	~~400 000 000~~	~~P~~	~~S0~~	
12	D008	1000 000	P	S01	
13	D002	275 000 000	P	S01	P.T.
14	D002	130 000 000	P	S02	
15	~~D~~				
16	F003	125 000 000	P	S01	
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					

IV. DESCRIPTION OF HAZARDOUS WASTES *(continued)*

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM ITEM D(1) ON PAGE 3.

EPA I.D. NO. *(enter from page 1)*	
ILD 981440107	36

V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail)*. F6-11/55

VI. PHOTOGRAPHS

All existing facilities must include photographs *(aerial or ground-level)* that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas *(see instructions for more detail)*. F6-A/56

VII. FACILITY GEOGRAPHIC LOCATION

LATITUDE *(degrees, minutes, & seconds)*	LONGITUDE *(degrees, minutes, & seconds)*
41 51 50	087 44 10

VIII. FACILITY OWNER

☐ A. If the facility owner is also the facility operator as listed in Section VIII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VIII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER	2. PHONE NO. *(area code & no.)*
~~Howard Cosant~~ The Valspar Corp.	312-762-7000

3. STREET OR P.O. BOX	4. CITY OR TOWN	5. ST.	6. ZIP CODE
1330 S. Kilbourn Ave.	Chicago	IL	60623

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME *(print or type)*	B. SIGNATURE	C. DATE SIGNED
John F. Wheatly V.P. Operations	John F. Wheatly	10-15-81

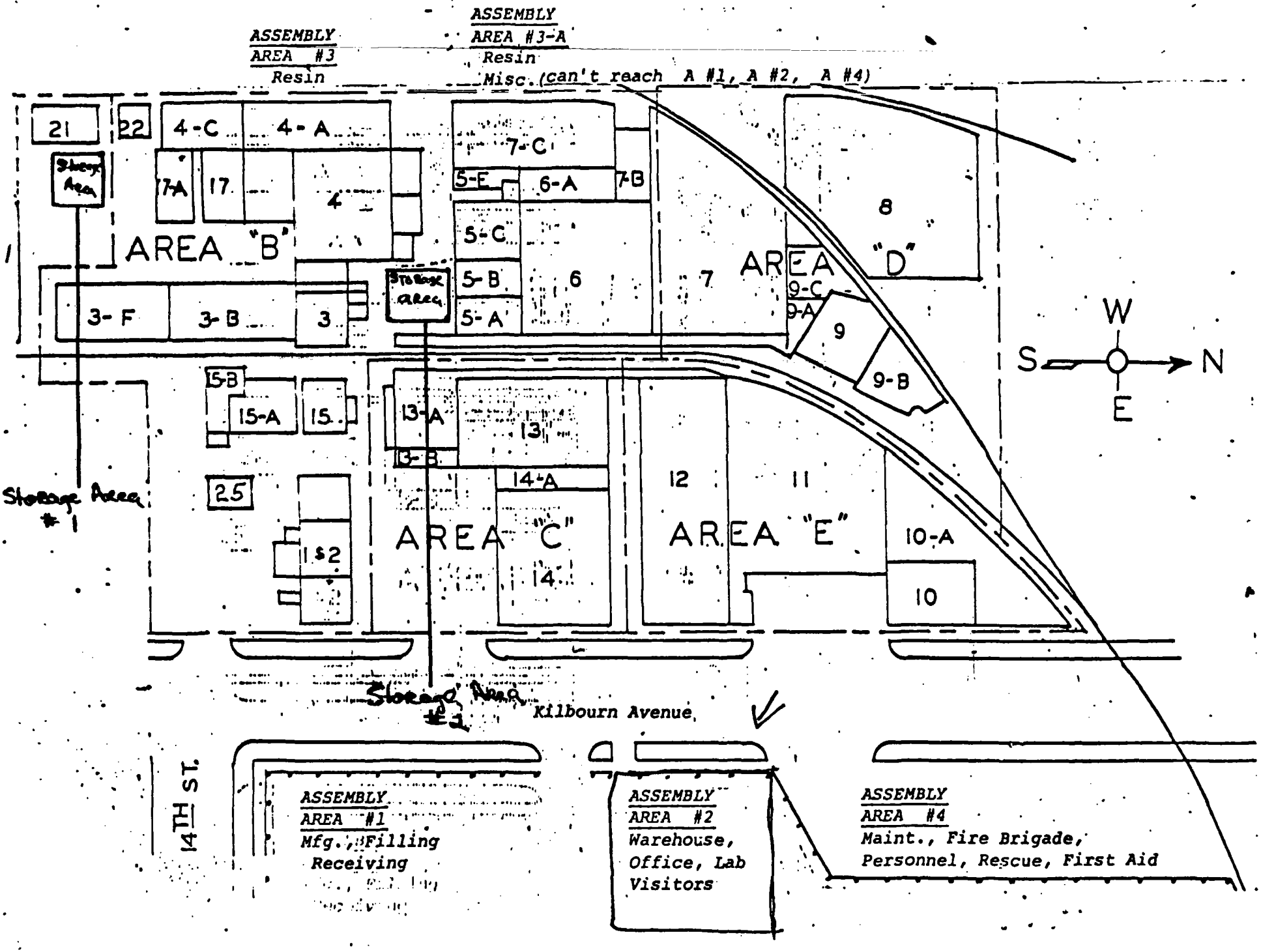
X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME *(print or type)*	B. SIGNATURE	C. DATE SIGNED
Mark Levine	Mark L Levine	11/3/80

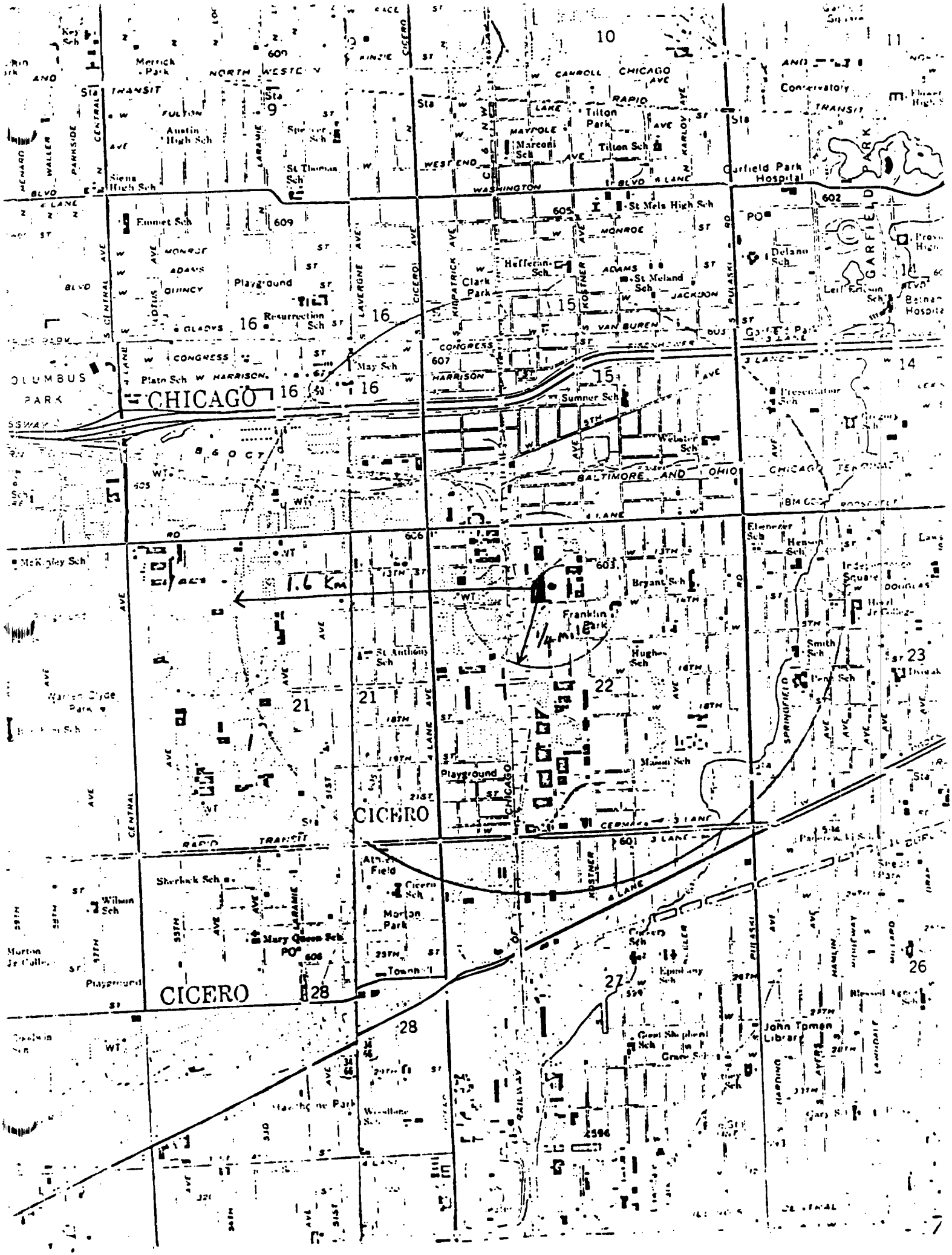
CONTINUE ON PAGE 5

EVACUATION / ASSEMBLY AREAS



Storage Area
#1

Storage Area
#2



CHICAGO
CICERO
CICERO
1.6 Km
1/4 Mile
Franklin Park
Garfield Park Hospital
Conservatory
Tilton Park
Tilton Sch
Marconi Sch
St Mels High Sch
Emmet Sch
Playground
Resurrection Sch
Clark Park
Hefferan Sch
St Meland Sch
Delano Sch
Leif Ericson Sch
Plato Sch
May Sch
Sumner Sch
Webster Sch
Presentation Sch
Bryant Sch
Hughes Sch
Smith Sch
Penn Sch
Mason Sch
St Anthony Sch
McKinley Sch
Warren Clyde Park
Sherlock Sch
Wilson Sch
Mary Queen Sch
Morton Park
Townhall
Cicero Sch
Athletic Field
Cockery Sch
Epiphany Sch
Good Shepherd Sch
Grace Sch
John Toman Library
Blessed Agnes Sch
Hawthorne Park
Westlane Sch
Merrick Park
Austin High Sch
Siena High Sch
St Thomas Sch
Spencer Sch
Key Sch
Elsenhower Sch
Henson Sch
Independence Square
Hoyt Jr College
Morton Jr College
Playground
Sta

G

The Valspar Corporation

1101 Third Street South / Minneapolis, MN 55415
Mailing Address: P. O. Box 1461 / Minneapolis, MN 55440
612 / 332-7371

Illinois Environmental Protection Agency
Division of Land Pollution Control
Permit Section
2200 Churchill Road
Springfield, IL 62706

November 26, 1984

Attention: Mr. Lawrence Eastep

On November 1, 1984 I addressed a letter to Mr. Valdas Adamkus, Regional Administrator EPA Region V ref: Closure of Hazardous Storage facility ILD081040107.

On November 16, 1984 Region V office told me that this request had been forwarded to your office; however, according to your Mr. Jim Moore no correspondence has been received.

I would like to inform you that the Valspar Corporation has ceased all operations at 1330 South Kilbourn Avenue, Chicago and will no longer be generating hazardous waste after October 31, 1984.

The Hazardous Storage Site at this location is a part of a facility leased by Valspar from it's owner, American National Bank and Trust Company of Chicago, a trustee of Trust No. 75860 since November 1, 1976.

The attached Closure plan was prepared pursuant to 40 CFR 265 and/or Sub-Part H of 35 ILLINOIS Administrative Code Parts 724 and 725.

There is no waste remaining in storage. The final closure costs are estimated to be $2074. The reduction in the estimate is because there is no waste remaining in the storage site and there are no spills or leaks to clean up. Upon approval of the closure plan, Valspar will close the site.

Very Truly Yours,

A. J. Espinel
Corporate Chairman,
Waste Management Task Force

AJE/dlp

Enclosure: Closure Plan

cc: Herb Denker
John Whealy

RECEIVED
NOV 30 1984
IEPA-DLPC

G1

I CLOSURE, POST-CLOSURE PLANS AND FINANCIAL REQUIREMENTS

I-1 CLOSURE PLANS

I-1a CLOSURE PERFORMANCE STANDARD

Valspar will close the storage area in a manner that:

1) Minimizes the need for further maintenance and,
2) Control, minimizes or eliminates to the extent necessary to prevent threats to human health and the environment post-closure escape of hazardous waste, hazardous waste constituents, leachate, contaminated rainfall or waste decomposition products to the ground or surface waters or to the atmosphere.

RECEIVED
APR 19 1985
IEPA-DLPC

I-1b MAXIMUM WASTE INVENTORY

The maximum amount of waste for which the hazardous waste storage area at Chicago Valspar Plant is designed is 181 drums and 4000 gallons tank storage. Valspar's wastes are coded D-001, D-002 & D-008.

I-1c DISPOSAL OR DECONTAMINATION OF EQUIPMENT

BARRELL STORAGE

Any facility equipment or structures that have residues of Valspar's wastes are not expected to be hazardous waste. Any ignitible waste spills will be cleaned up in accordance with the spill plan. The residues remaining would not be hazardous because the flammable solvents would have evaporated leaving a thin solid coating which is no longer ignitible; therefore, decontamination of equipment will not be necessary. Any caustic waste residue will be neutralized and removed leaving no caustic residues. Any lead containing liquids will also be cleaned and removed. The remaining residue would be a dry paint film which is not hazardous.

The disposal of such equipment or structures would be subject to Subtitle D as non-hazardous solid waste.

BULK TANK STORAGE

Only D-001 wastes are stored in this tank. There are no toxic wastes stored in the tank. All liquid is pumped out and remaining solids are barrelled leaving a thin solid coating which is no longer ignitible; therefore, decontamination of equipment will not be necessary. The disposal of such equipment or structures would be subject to Subtitle D as non-hazardous solid waste.

I-1d(1) CLOSURE OF CONTAINERS

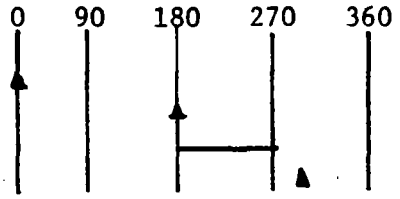
Closure of this site will consist of 4 steps:

1. Notification to Regional Administrator at least 180 days prior to the date that closure is expected to begin.
2. Determination of a date for receipt of final inventory.
3. Removal and disposal of final waste inventory within 90 days of the above date.
4. Certification to the Regional Administrator by both Valspar and an independent registered professional engineer that the facility has been closed in accordance with the closure plan.

RECEIVED
APR 19 1985
IEPA-DLPC

I-1e SCHEDULE FOR CLOSURE

DAYS



1. Notification (180 days)
2. Receipt of Final Inv.
3. Removal & Disposal (90 days)
4. Certification (30 days)

I-4 CLOSURE COST ESTIMATES

1. Notification	-0-
2. Receipt of Final Inv.	-0-
3. Removal & Disposal	
a. Drum Waste	
1) labor to load (machine & operator 1 day)	$ 400
2) transportation & disposal 3 loads	4351
b. Tank Waste	
1) labor to load & clean out residues	500
2) transportation & disposal 1 load	960
c. Decontamination	600
4. Certification	
a. P.E. 20 Hrs @ $60/Hr	1200
Subtotal	$8011
Administrative Costs	961
Total Closure Costs	$8972

M. Rapps Associates 2307 WEST MONROE, SUITE 123, SPRINGFIELD, ILLINOIS 62704 — (217) 787-2118

ENVIRONMENTAL ENGINEERING

March 25, 1985

Illinois Environmental Protection Agency
Division of Land Pollution Control
2200 Churchill Road
Springfield, Illinois 62706

ATTN: Lawrence Eastep

Re: Closure Certification
Valspar Corporation
1330 South Kilborn Avenue
Chicago, Illinois

Dear Mr. Eastep:

On March 19, 1985, a representative of this firm inspected the hazardous waste storage areas previously operated by Valspar Corporation. The facility is located at 1330 South Kilborn Avenue, Chicago. The inspection was made for purposes of certifying that Valspar Corporation has properly closed the storage areas in accordance with its Illinois EPA approved closure plan.

The plant was closed at the time of the visit. In fact, the Company has ceased all operations at the facility and has terminated its lease with the property owner.

When operated, the storage area consisted of an outdoor concrete drum storage yard and an indoor storage tank. The outdoor drum storage area had a capacity for 181 55-gallon drums. The indoor storage tank held a maximum of 4000 gallons.

The March 19th inspection was conducted by Mr. Dan Flynn of this office. He was accompanied by Mr. Len Rota, a Valspar Process Engineer familiar with the operation. The inspection of the outdoor drum storage yard revealed that all previously stored drums have been removed. Mr. Rota indicated that the storage area had been swept following the removal of the drums. And, Mr. Flynn did not find residues indicative of earlier stored hazardous waste materials.

It might be noted that the plant site gives appearances of having been closed for quite some time. Plant equipment and machinery that has not been salvaged, or which awaits salvaging, can be found in most areas of the plant. This is shown in attached photographs.

The inspection of the indoor hazardous waste storage tank area revealed that the tank has been completely removed. This tank had previously contained ignitable's which had been emptied prior to tank removal.

The following attachments are intended to document the observations made during the March 19th inspection.

Attachment A: Copies of photographs showing the outdoor drum storage area. (Note: Original photographs can be supplied upon request.)

Attachment B: Copies of photographs identifying the area which previously housed the indoor storage tank.

Based on the facility inspection and the Attachments, I hereby certify that the Valspar Corporation hazardous waste storage areas have been closed in accordance with the provisions of the Illinois EPA approved closure plan.

If you have any questions concerning this matter, please contact Dan Flynn at this office.

Sincerely,

Michael W. Rapps, P.E.

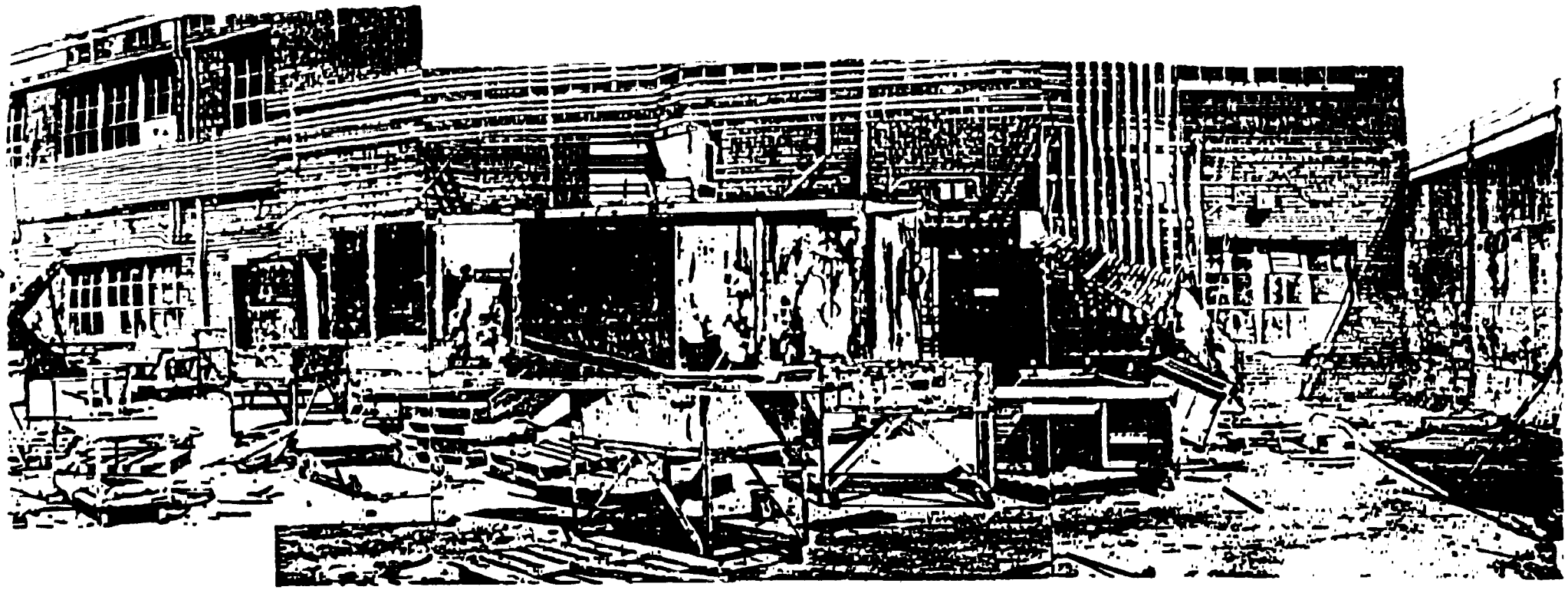
MWR:DVF:jh

cc: Valspar Corporation

ATTACHMENT A

Valspar Corporation Outdoor Hazardous Waste

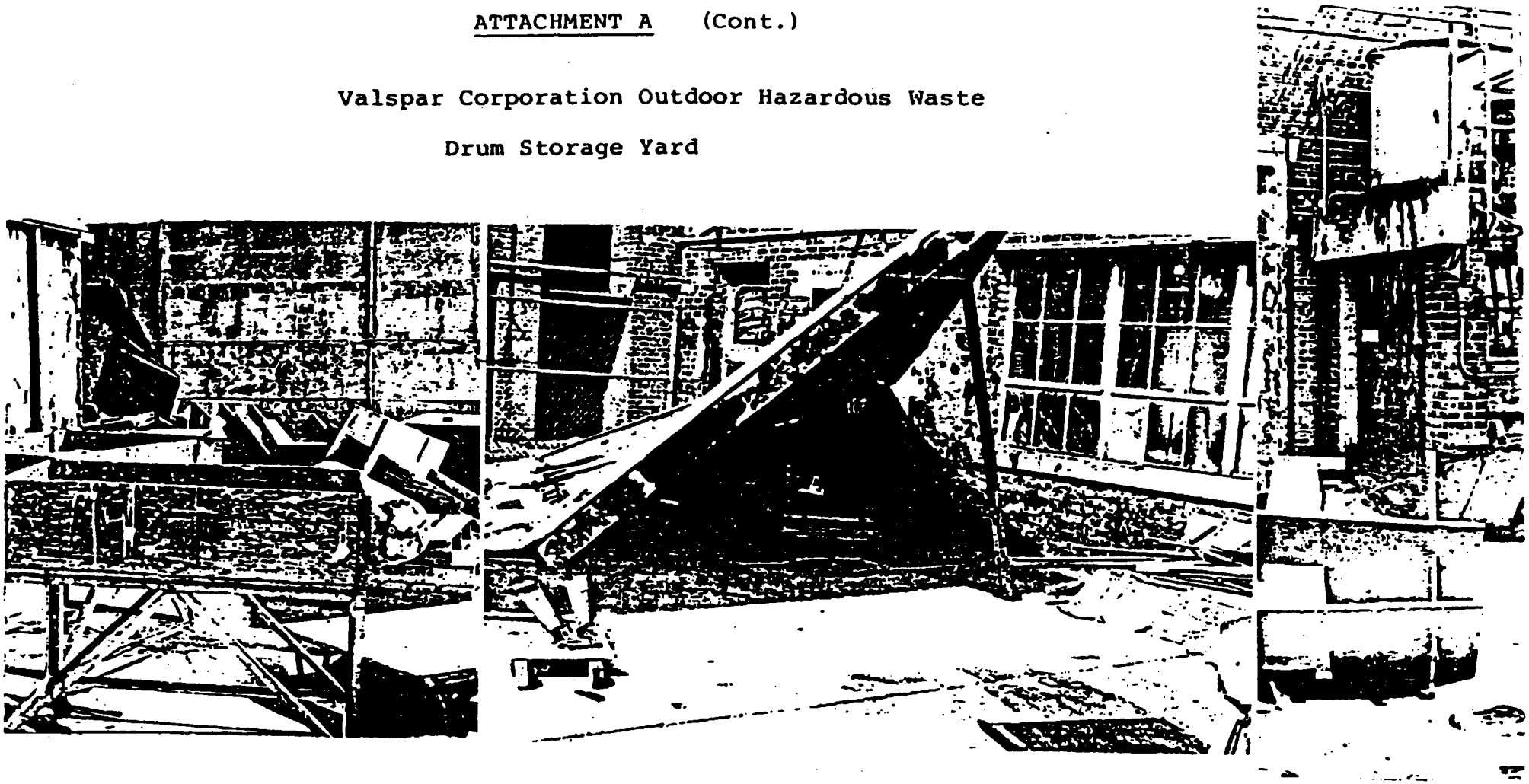
Drum Storage Yard



ATTACHMENT A (Cont.)

Valspar Corporation Outdoor Hazardous Waste

Drum Storage Yard

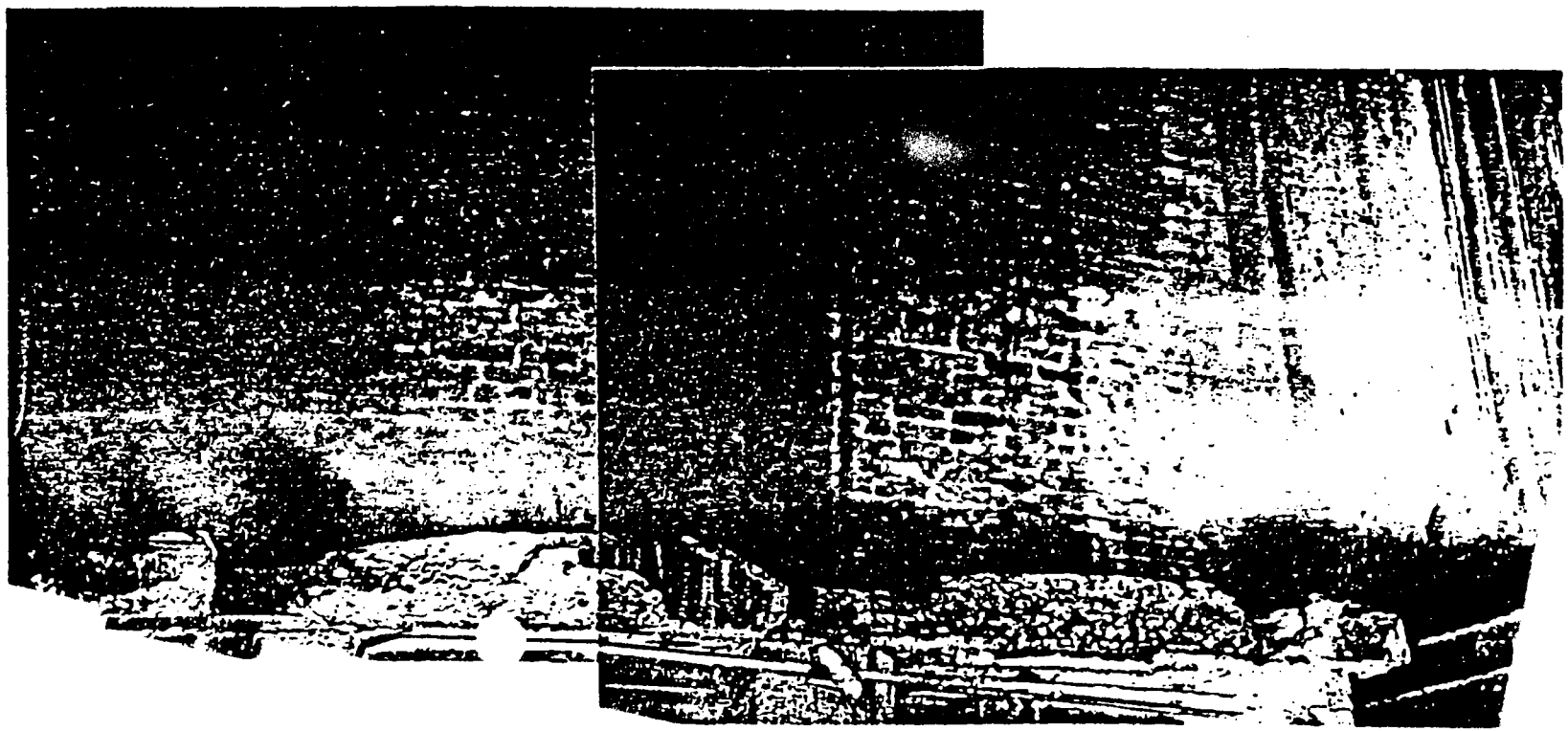


ATTACHMENT B

Valspar Corporation Indoor Hazardous Waste

Storage Tank

(Tank Removed)



H

PHASE I

IDENTIFIED RESPONSE ACTION

1330 South Kilbourne Avenue South

Chicago, IL

Prepared for:

Illinois Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62076

and

The Valspar Corporation
1101 Third Street South
Minneapolis, MN 55440

Prepared by:

James A. Kinsey
Waste Reduction
5367 Eagle Street
White Bear Lake, MN 55110

October 23, 1985

H1

1.0 PURPOSE AND SCOPE

This report has been prepared in response to an Illinois Environmental Protection Agency (IEPA) "Notice to Parties Liable for a Release or Substantial Threat of a Release of a Hazardous Substance" dated July 16, 1985 pertaining to the facility at 1330 Kilbourne Ave., Chicago, IL, which was owned and occupied by Goodwill Industries and which had been operated as a paint manufacturing plant by the Valspar Corp. for the eight years prior to August 1984. A copy of this notice is presented in Appendix 1. The Valspar Corporation has provided necessary personnel, materials and services necessary to comply with the first phase of the stipulated response actions. These Phase I activities have included:

- Characterization (including laboratory analysis and hazard determination) and quantification of residues in above and below ground containers at the site;
- Characterization of residues on floors both inside and outside of building structures;
- Analysis of peeling paint to determine the presence of lead, cadmium and chromium;
- Evaluation of data to establish proper treatment and/or disposal of hazardous residues found in storage tanks (above and below ground) process tanks and piping; and
- Recommendation of a specific plan for removal of hazardous residues.

The data collected and evaluated as part of the Phase I work will serve as the basis for Phase II work, which will include the physical removal, transport and treatment/disposal of hazardous residues remaining at the site.

3.2.2 Sampling Method

For liquid resin and production tanks, a clean paper cup was dipped into the container and emptied into 500 ml. jars prepared by PACE Laboratories. For underground tanks, a clean bottle of 1½" diameter was secured each time by a new piece of string and lowered into the tank. Equal subsamples were taken from the top and the bottom of the liquid to ensure proper phase representation. These were collected in new, clean 1 pint or 1 quart glass jars. Solid resin samples were cut and placed into a sampling jar. Samples of peeling paint were collected from the floors and walls on floors 3, 4, and 5 in buildings 7, 8, and 12 and placed in sample jars. Samples were identified by EPA/Valspar number, date of collection and initials of the sample collector.

3.2.3 Sample Custody

Sample jars were labeled with sequentially numbered sample labels. The samples were sealed in plastic bags for shipment. Samples 1-29 were brought by James Kinsey to Minneapolis. Flash point tests were conducted and then James Kinsey transferred the samples to PACE Laboratory, Inc. for analysis. Samples 30 through 85 were transported to Minneapolis by truck. James Kinsey received the samples, conducted flash point tests, and then transferred them to PACE Laboratories, Inc. for analysis. Chain of Custody records for all the samples are found in Appendix 4.

3.3 Analytical Methods

3.3.1 Preliminary Analysis

A combustability test was made on each sample to facilitate flash point processing. A cotton swab with sample was placed in a flame and each sample was classified as follows:

Very combustable - ignite immediately
Combustable - burns when heated
Non-combustable - does not burn

Subsequently, flash points were obtained per procedures presented in Appendix 5.

3.3.2 PACE QA/QC

Samples were forwarded to PACE Laboratories, Inc. for analysis. The QA/QA program and analytical results submitted by PACE Laboratories, Inc. is presented in Appendix 6.

/ [illegible] of hearsay

4.1.1 Seventh Floor, Buildings 7 and 8

These rooms were used to store knocked down cardboard and to dry drums. The rooms are clean and empty. There is one piece of equipment in Building 8 that appears to be part of a small filter press. There are no wastes on this level, no peeling paint, and no pipes.

4.1.2 Sixth Floor, Buildings 7, 8, and 12

Lead & Pigment Storage area red dust on floor one of these bldgs

The sixth floor rooms in Buildings 7 and 8 were both used for storage of pigments. These rooms are empty. The sixth floor of Building 12 was the label department and is an office area with label storage space. The roof on Building 12 has a leak and a 250 gallon portable vat had been placed below the leak to catch the rain water. This vat is labeled 076 and on July 3, 1985 the IEPA inventory listed it as full. On August 5, 1985 during a preinvestigation site visit, the vat drain was open and the vat was found empty. Len Rota, an engineer from Valspar, stated the vat had been placed there the year before to catch rain water.

EPA data for the sample they took was pH=6 and flash point greater than 210°F. This is consistent with rain water. There were no discolorations or solid residues on the floor to indicate that oils or pigments had been dumped. There was some peeling paint which was composited with similar peeling paint samples from other floors. The peeling paint was not EP toxic and therefore not hazardous. The only pipes on the sixth floor were for the sprinkler system.

4.1.3 Fifth Floor, Buildings 7, 8, and 12

The fifth floor was the first of three floors used for paint manufacturing. Liquid raw materials were pumped up to this floor and weighed into portable vats. Building 8 was where the pigments were mixed. In Building 7 resins and solvents were added to the pigments and the resulting slurry was poured into one of the pebble, sand, or roller mills on the fourth floor of Building 7. Building 12 was also used to measure bulk liquids into portable vats. The materials were then drained into mixing tanks on the third floor.

The function of Tanks 69 through 74 is not known. Valspar did not use those tanks and they were all empty. Tank number 075 was a portable vat placed on a scale beneath the openings of many pipes which converged at that location. All the valves were open and one of them had drained no more than 2 gallons of resin which had covered only half of the tank bottom. The IEPA samples taken 7-3-85 showed the material to be ignitable. Our sample (#1) taken 8-12-85 showed that parts of the material were ignitable. Due to the small amount of leakage, it is reasonable to assume that ignitible solvents in the resin have evaporated and that the flash point of the resin varies with the subsample, i.e., the skin having a higher

flash than the liquid. We recommend that this tank be scraped clean and steam cleaned to remove all hazardous residue.

All pipes were open and, according to Valspar personnel, their contents were drained back to the storage tanks. In Building 12, there were two valves that were closed. We opened them and drained a gallon of solvent from one and less than a pint from the other.

Some of the paint on the walls was peeling off. It was sampled and composited with similar peeling paint from the other floors. The material is not hazardous.

4.1.4 Fourth Floor, Buildings 7, 8, and 12

The fourth floor was the middle floor of the three floors used for paint manufacturing. The caustic sludge tank in Building 12 was the only tank on this floor. There is a laboratory and a tinting area in Building 8. Building 7 has three mills where pigment slurries were ground and dispersed. Building 12 has a bulk liquid dispensing area and a caustic cleaning system. Bulk liquids were weighed into portable vats and along with the ground pigments they are drained into mixing tanks on the third floor for mixing, tinting, and thinning.

Residues from the caustic cleaning system were collected in Tank 068. The tank contained eight inches of caustic sludges. This material was sampled by both the IEPA on 7-3-85 and Waste Reduction on 8-23-85. Both IEPA data and PACE data (sample #77) showed that the sludge was not ignitable or corrosive. PACE data also showed that the material was not EP toxic. Other caustic sludge samples and caustic waste water samples taken from tanks in other areas were also non-hazardous. This is consistent with Valspar's claim that its caustic sludge waste was non-hazardous (see Appendix 2).

There were many pipes along the ceiling in Buildings 7 and 12 servicing the bulk filling areas. All valves were open and, according to Valspar personnel, their contents were drained back to the bulk storage tanks.

The paint on the walls and ceiling was peeling. Samples were taken and composited with similar samples from the other floors. The peeling paint is not hazardous.

4.1.5 Third Floor, Building 7

Most of the tanks in this area were used to mix, tint, and thin paint prior to filling. Tanks 041 and 042 are an exception. They were used to mix liquid organic wastes for disposal in an industrial fabricated fuel program. There are 20 tanks and a 10 gallon pressurized glue pot in this area. Fifteen of the tanks are empty by our count while 18 of the tanks were empty according to the IEPA inventory. The difference is in Tanks 048 and 049, which each have ½" of soft solid residue, and Tank 030 which had 35 gallons of water.

5.3 Hazardous Materials in Pipes

The pipes in the production and underground area are assumed to be generally drained clear. By blowing air through the pipes, this will be confirmed in Phase II. Flash points will be determined on liquids removed from the pipes and hazardous liquids will be disposed of. The volume is expected to be very low. There are only two pipes that are known to still contain solvents and their volumes are estimated at less than 50 gallons collectively.

Many of the pipes in the resin areas are not open and drained. We recommend that the pipes to and from the 14 tanks containing ignitible residues be removed and any ignitible residues cleaned out. Each tank has an estimated 200 feet of 2" ID pipe. If all of the pipe is full, then 32 gallons per tank will be removed. The total is 450 gallons. The pipes would be steam cleaned and sold as scrap metal.

5.4 Peeling Paint and Spills

The floors of three buildings (3B, 15, and 5C) had areas that were soft and sticky. Analysis showed that none of the materials in these areas were hazardous. But the material in Building 5C was combustible and although it was a solid, it had a flash point. Therefore, we recommend that the area be cleaned up and the residues incinerated with the ignitible resins.

The peeling paint in the production area was mostly the same off white latex. There were small areas of blue, red, and green on doors and marking fire extinguishers and safety equipment. These colors were also collected and composited with the white at an approximate 50% white, 50% color. Chromium and lead were present but they were not EP toxic, and the peeling paint is not a hazardous waste.

Table 4-2
PHYSICAL DESCRIPTION SUMMARY
(Continued)

Location	EPA	Valspar	Capacity (gal.)	Description	Residue Vol. (gal.)	Classification
Bldg. 3-B						
	217	148	20,000	0-4" hard resin, some with clear standing water to bottom of very wet manhole	Total 2,000 gal.	Non-hazardous
	218	151	20,000	"		Non-hazardous
	219	150	20,000	"		Non-hazardous
	220	147	20,000	"		Non-hazardous
	221	154	20,000	"		Non-hazardous
	222	153	20,000	"		Non-hazardous
	223	157	10,000	"		Non-hazardous
	224	156	10,000	"		Non-hazardous
	225	160	8,000	"		Non-hazardous
	226	159	8,000	"		Non-hazardous
	227	162	8,000	"		Non-hazardous
	228	163	8,000	"		Non-hazardous
	229	164	9,000	"		Non-hazardous
	230	161	9,000	"		Non-hazardous
	231	158	10,000	"		Non-hazardous
	232	155	20,000	"		Non-hazardous
	233	152	20,000	"		Non-hazardous
	234	149	20,000	"		Non-hazardous
Bldg. 15						
	Floor	--	--	White paint on floor dark crust	40	Non-hazardous
	5 kettles		--	MT -		--
	1 tank -		--	MT -		--
Bldg. 15-B						
	235	207	4,500	MT	0	--
	236	208	4,500	MT	0	--
	237	209	4,500	5" brown oil	100	Non-hazardous
	238	210	2,100	latex liquid	100	Non-hazardous
	239	211	4,000	latex liquid	150	Non-hazardous
Upper Level Bldg. 5-A						
	--	114	2,500	MT	0	--
	--	115	2,500	MT	0	--
	--	G3	100	MT	0	--
	--	G5	100	MT	0	--
	--	G6	200	MT	0	--

Table 4-2
PHYSICAL DESCRIPTION SUMMARY
(Continued)

Location	EPA	Valspar	Capacity (gal.)	Description	Residue Vol. (gal.)	Classification
Lower Level						
Bldg. 5-A						
	--	205	1,000	1/4" Yellow oil	1	Non-hazardous
	--	206	1,000	5 gal. Soft solid white top, dark bottom	5	Non-hazardous
	--	G2	50	MT	0	--
	--	G4	330	2' Brown-black thick oil	150	Hazardous liquid
	--	G7	250	MT	0	--
	--	G8	250	MT	0	--
Bldg. 5-B						
	--	121	2,250	2" dark & dry	12	Non-hazardous
	--	122	2,250	4" dark & dry	24	Non-hazardous
	--	123	1,250	10" water	35	Non-hazardous
	--	124	500	½" yellow honey	1	Hazardous liquid
Bldg. 5-C						
	198	126	9,250	1-1/8" clear honey 1/8" skin	42	Hazardous liqui
	199	127	9,250	½"yel. gel w/white layer on bottom	20	Non-hazardous
	200	128	9,250	1" carmel + liquid	40	Hazardous liquid
	201	129	9,250	1" skin over ½" clear liquid + wt. skin	40	Non-hazardous
	202	130	9,250	3" thick gel - ½" amber skin	120	Non-hazardous
	203	131	9,250	2" amber gel, ½" skin, ½" wt. base	80	Non-hazardous
	204	132	9,250	2" white gel, 1/8" skin, no liquid	80	Hazardous solid
	205	133	9,250	3/4" white gel - thin skin & brown bottom	30	Hazardous solid
	Floor		--	Soft solid resins and water on top	160	Hazardous solid

pace laboratories, inc.
PROFESSIONAL ANALYTICAL CHEMISTRY & ENGINEERING

STEVE A. VANDERBOOM
President
WILLIAM A. O'CONNOR
Vice-President

1710 Douglas Drive North ☐ Minneapolis, MN 55422 ☐ Phone (612) 544-5543

September 23, 1985

Waste Reduction, Inc.
5367 Eagle Street
White Bear Lake, MN 55110

ATTN: Mr. James Kinsey

REPORT OF LABORATORY ANALYSIS

Date Sample(s) Collected: September 10, 1985
Date Sample(s) Received: September 16, 1985

Bulk Asbestos Examination

Sample Number	Description	Asbestos Type	Percent by Weight
X0134	Pipe Insulation (Unibestos)	Amosite	90-95%

Analysis was done by a subcontracting laboratory accredited by the American Industrial Hygiene Association according to the EPA Polarized Light Microscopy Method for bulk examinations. The method detection limit is 1% asbestos.

These results indicate that the insulation material would be regulated by both EPA and OSHA as asbestos. Specific recommendations cannot be made without more information on the sample source and potential employee exposure to the material.

Please call if you have any questions regarding this report.

Sincerely,

William A. O'Connor, C.P.C.
Laboratory Director

WAO/slb

pace laboratories, inc.
PROFESSIONAL ANALYTICAL CHEMISTRY & ENGINEERING

STEVE A VANDERBOOM
President
WILLIAM A O'CONNOR
Vice-President

1710 Douglas Drive North ☐ Minneapolis, MN 55422 ☐ Phone (612) 544-5543

October 21, 1985

Waste Reduction, Inc.
5367 Eagle Street
White Bear Lake, MN 55110

ATTN: Mr. James Kinsey

REPORT OF LABORATORY ANALYSIS

Date Sample(s) Collected:
Date Sample(s) Received: August 20, 1985

VALSPAR PROJECT

Sample	Barium(1) mg/l	Cadmium(1) mg/l	Chromium(1) mg/l	Lead(1) mg/l	Arsenic(1) ug/l	Selenium(1) ug/l	Mercury(1) ug/l
Minimum Detection Limit	0.2	0.01	0.05	0.2	1	1	0.2
#2 048-9	4.0	0.50	0.47	3.4	-	-	-
#3 042-15	110	-	0.19	190	-	-	-
#4 041-16	11	-	<0.05	5.0	-	-	-
#6 051-056	100	-	-	<0.2	-	-	-
#18 108-16	<0.2	<0.01	<0.05	<0.2	<1	<1	<0.2
19 105-019	-	-	-	0.7	-	-	-
#25 Peeling Paint	-	-	<0.05	<0.2	-	-	-
Composite A	<0.2	<0.01	<0.05	0.2	<1	<1	0.2
Composite 5+9	59	0.11	0.34	3.1	28	<1	7.5

< means "less than"

(1) Analysis performed on EP Toxic Leachate.

The data contained in this report was obtained using EPA or other approved methodologies. All analyses were performed by me or under my direct supervision.

William A. O'Connor, C.P.C.
Laboratory Director

AO/tw

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0316005445 Cook
Valspar
SF/Tech

Kinsey Consulting Inc.
30399 Chardon Lane
Grayslake, Illinois 60030
July 14, 1987

James A. Janssen, P.E., Manager
Immediate Removal Unit
Remedial Project Management Section
Division of Land Pollution Control
Illinois Environmental Protection Agency
2200 Churchill road
Springfield, Illinois 62706

RECEIVED
JUL 22 1987
IEPA/DLPC

Re: 0316005445 -- Cook County
Chicago / Valspar
Superfund / Enforcement
Final Report

Dear Mr. Janssen,

I am writing this letter to document the completion of remedial activities at the above referenced site, in accordance with the work plan approved by the Illinois Environmental Protection Agency (IEPA). The original work plan was proposed in the Phase I Identified Response Action document submitted to the IEPA on October 23, 1985. The work plan was approved with modifications listed in a letter from IEPA dated May 1, 1986 to Mr. Michael J. Quinn, attorney for American National and Trust Company of Chicago (Trust 75860 dated July 6, 1971). As a result of investigations requested in the approval letter, lead dust contamination was identified and the work plan was modified to include the removal of dust from buildings 7,8, and 12. During the conduct of the site clean up, the work plan was modified to include general housekeeping tasks such as the removal of peeling paint from the floors so as to make the property more presentable for sale, and to expand the pipe clean up activities to include all pipes found on the property. Valspar claimed that all pipes

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were cleared prior to their leaving the site on October 31, 1984. Our investigations found that most pipes were obstructed at their lowest points. They may have been clear in 1984 when Valspar left, but by 1986 when we tested the pipes, residues that had adhered to the inside of the pipes had drained to the low points and obstructed the pipe.

In its final form the work plan included the clean up of the following five areas:

1. Remove dust and peeled paint on floors in buildings 7, 8, and 12.
2. Clean 58 above ground tanks.
3. Clean 23 underground tanks and pressure test to determine if they leak.
4. Clear all production and tank related pipes.
5. Remove unused asbestos insulation in storage shed.

A list of all tanks cleaned is in attachment 1, "Index of Tanks to be Cleaned." A summary of all wastes removed and documentation of their disposition is included in attachment 2, "Waste Volumes and Disposal." A summary of the five clean up tasks that comprised the remedial action is found below.

<u>Lead Contaminated Dust</u>

Floors one through six of buildings 7, 8, and 12 were vacuumed using a 15 gallon Hake Minuteman asbestos vacuum (model no. 80315). Due to ongoing vandalism, new areas containing dust were being exposed as plate steel isleways were removed. To assure complete removal of potentially contaminated dust, we removed all remaining steel sheets and vacuumed the entire surface of the floors. The stair well areas were also vacuumed. Six 55 gallon steel drums of dust were collected. The cleanliness standard was a visual standard. The completion of

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and all readings were less than 5 ppm.

Asbestos

Unused asbestos pipe insulation was stored in their original retail boxes in a shed on the west end of the property between buildings 7 and 8. The boxes were too large to place directly into plastic bags. Even if the bag were large enough, the wetted asbestos would have weighed several hundred pounds and would therefore likely tear the bag. Therefore, the asbestos insulation was wetted using a surfactant solution and repacked into plastic bags, sealed, and double bagged. The bags were loaded into a roll off container and transported to a local landfill for disposal.

The clean up activities specified in the Phase I study as approved by the IEPA have been concluded. These activities have been conducted in accordance with applicable IEPA rules, established health and safety guidelines, and generally accepted engineering practices. If you have any questions please call me at (312) 526-8027 or (312) 295-6020.

Very truly yours,

James A. Kinsey

James A. Kinsey

Attachments
- Index of Tanks to be Cleaned
- Waste Volumes and Disposal
- Underground Tanks After Cleaning

Kinsey Consulting Inc.
5367 Eagle Street
White Bear Lake, MN. 55110
July 16, 1986

James A. Janssen, P.E., Manager
Immediate Removal Unit
Remedial Project Management Section
Division of Land Pollution Control
Illinois Environmental Protection Agency
2200 Churchill Road
Springfield, Illinois 62706

RECEIVED
AUG 13 1986
IEPA-DLPC

RE: 0316005445 -- Cook County
Chicago / Valspar
Superfund / Enforcement

Dear Mr. Janssen,

I am writing this letter to document the sampling and analysis procedures used to evaluate the "red dust" and the contents of tank # 239 as requested in your May 1, 1986 letter to Mr. Michael J. Quinn, attorney for American National and Trust Company of Chicago (Trust 75860 dated July 6, 1971). On June 13, 1986 I sampled the "red dust" on the floor in the 5th level of building 8. The "red dust" contained 235,000 mg/kg of iron and 4,200 mg/kg of lead. On July 2, 1986 I sampled other dusts on the 5th levels of buildings 7, 8, and 12, and the contents of tank # 239. Lead was also found in those dusts at concentrations ranging from 145 to 29,300 ug/g. The EP toxicity of the "red dust" in the 5th level of building 8 was found to be 20 mg/l. The analysis of the sample from tank # 239 shows that the contents are not hazardous. The sampling and analysis procedures used were those described in the Health and Safety Plan submitted prior to conducting Phase 1. The following is a review of the additional sampling done to date, a plan to determine the extent of the lead contamination, the results of the investigation, and a proposed clean up plan for the lead.

Background

During the Phase 1 investigations many different types of materials were analyzed for lead but only two of the materials were EP toxic. Tanks # 041 and 042 contained liquid paint wastes with 4,500 mg/kg and 9,200 mg/kg of total lead respectively. Their EP toxic lead concentrations were 5.0 mg/l and 190 mg/l respectively. The peeling paint had 3,500 mg/kg of total lead but less than 0.2 mg/l of EP extractable lead. The peeling paint

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was found in most of the rooms on site but there was only one room that contained "red dust". That was the 5th floor of building 8 were pigments were stored. About half of the room had a white dust on the floor and there were several spots that had a small amount of red dust. The amount of red dust was so small that most of the spots would have been removed up in the process of taking the sample. The red dust was not sampled for three reasons. First the amount was believed to be insignificant. Second, Valspar claimed that the use of lead pigments ceased about 1978 and that routine cleaning during the years that followed would have removed any residues. And third, the color of the dust was typical of an iron oxide pigment and not a lead pigment.

During the Phase 1 investigation the contents of tanks # 238 and 239 were assumed to contain the same material for three reasons. First, the contents of both tanks had the same appearance, color, and consistency. Second, Valspar documents and personal identified both tanks as latex storage tanks. And third, There was a common manifold and pump by which the tanks were emptied. The pipes that connect the tank to the common manifold and pump are not in place, therefor the IEPA has requested that the contents of tank # 239 be sampled and its hazard classification be determined independently of tank # 238.

Preliminary Analysis

Pursuant to the request of the IEPA, I sampled the red dust on June 13,1986. Using a knife to scrape up the red dust I was able to collect about 0.2 gram. Attached is the laboratory analysis of the red dust (PACE report dated June 26, 1986). The

red dust is an iron oxide pigment with lead contamination. There are two possible explanations of the lead contamination. Either the lead is ubiquitous within the iron oxide pigment or there are leaded pigments that were mixed with the iron oxide. A typical pigment might only comprise only 10% of the paint formulation and although the limit for lead in a lead-free formulation is 600 mg/Kg the pigment might contain 6,000 mg/Kg and still be usable as a lead-free pigment. As amount of the pigment in the formulation goes down the amount of acceptable lead in the pigment goes up.

To better charaterize the amount of lead and to determine its hazard classification I again sampled the red dust on July 2, 1986. To obtain enough sample for an EP toxicity, a 5 foot by 5 foot area was cleared of peeled paint that had fallen from the ceiling. Then the dust in the area was drawn into a pile and scooped up with a spatula into a zip-lock baggy. About half the dust in this area was removed as the sample which weighed about 100 grams. This dust was in an area about 50 X 50 feet. The total amount of dust in the room is estimated at 44 pounds. The sample was split. 100 grams was sent to PACE Laboratories for total lead and EP toxic lead. One gram was sent to Thompson and Associates (bag 1) along with the other samples discussed below for total lead analysis. Pace Laboratories reported a total lead of 8,200 mg/kg and an EP toxic lead of 20 mg/l. Thompson reported a total lead of 8,290 mg/kg. This data suggests that the "red dust" has even less lead than the underlying white dust. The concentration of the lead is still with in the upper end of

the ubiquitous range.

Four additional samples were taken on the 5th floor to determine if the adjoining rooms also contained lead (see the attached 5th floor map for sample locations). The plate steel isle covers had been removed in buildings 7 and 8 exposing layers of dusts. No dusts were found in these rooms except where the steel plates had been removed. The steel plates were not found on site and have presumably been removed by vandals for recovery. Samples in vials 1 and 2 were dusts from where the plates used to be. Vial 1 is a red dust from building 7 with 2,820 ug/g of lead. It is quite similar to the "red dust" in building 8. Vial 2 is a gray to black powder from building 12 with 29,300 ug/g of lead. This was the highest lead level found and it can not be explained as a ubiquitous contamination. These dusts contain leaded pigments and although the floor surfaces may have been cleaned after Valspar stopped using leaded pigments the area under the steel plates was not cleaned. The amount of pigment is estimated to be less than 55 gallons. If the peeling paint is also cleaned up with the pigments then the volume will be several barrels.

To confirm that the pigments are not in areas where dusts can not be seen the sample in vial 3 was taken in building 12 between the vial 2 sample and tank # 070. The total lead was 145 ug/g which due to the lack of dust poses no hazard.

The sample in vial 4 was taken to further charaterize the dust in building 8. This sample represents the only other color dust in this area. It was a yellow and contained 2,820 ug/g of lead.

The sample in bag 2 was a greenish dust on the floor in the 1st level of building 14. It appeared to be a fire extinguisher chemical because there were empty extinguishers near by. The lead level was 924 ug/g. There was only a thin film of dust and most of the sample was solid. It was therefor not though to pose a problem.

The last sample (bag 5) was a peeling paint sample from the basement of building 12. The level of lead was 230 ug/g, which is very low and due to the solid nature of the peeling paint it could not be a respiration hazard.

Both personal pumps were on during the entire active sampling period, for a total time of 270 minutes each. At 4.0 liters per minute they took in 1,080 liters. The filters contained less than 0.005 mg/filter. The respirable lead was less than 5 micrograms per cubic meter. The PEL for lead is 50 micrograms per cubic meter. Moderate activity which included the sweeping of 5 foot by 5 foot areas produced no detectable respirable lead.

The analysis of the contents of tank # 239 has been reported but the final report was not received in time to be included. A copy of the hand written internal PACE report is attached. The final report will be forwarded as soon as I receive it. The data shoved the contents of tank # 239 to be non-hazardous.

Sampling Considerations.

The dusts in buildings 7, 8, and 12 are type V wastes, uniformly, non-randomly heterogeneous. That is that there are several types of dusts, that change very little with time, and

whose distribution is largely determined by the placement of plate metal isleveys.

That there are several types of dust was shown by both visual observation and particle size analysis by microscope. The dusts vary in color with reds, browns, and grays being most prevalent. The 4th floor of building 12 has some green dust. To evaluate heterogeneity at least one sample of each color dust will be taken. Microscopic examination shows that some dust is a pigment with a very narrow range of sizes (about 0.8 microns), while other dusts are mixtures of materials with a wide range of sizes. Some of this dust is from the street and has been brought in to the plant on the feet of the employees during the past several decades. Like the pigments it has also found its way under the metal sheets. To determine the background levels of lead in the area, samples of the soil and street sweepings will also be taken.

The non-randomness of the dust will be evaluated by sampling areas that were under metal plates and areas that were not. All floors will be observed for visual confirmation of the randomness of the distribution of the dust.

The uniformity if the material with time is assumed because there are no aqueous solutions to leach the lead from the floor.

Parameters and Number of analysis

The number of samples taken depends on the number of rooms found to contain dust. At least one sample will be taken in each room that contains dust. If there is evidence of non-random distribution of dust a second sample may be taken to confirm this. If the dusts in the room also vary by color then

additional samples of each color may also be taken. The samples taken and the rational for their selection are listed below:

Spl #	Random	homogeneous	floor	building
J-1	yes	yes	1	11
J-2	no	yes	1	12
J-3	no	yes	1	7
J-4	no	yes	2	7
J-5	no	yes	3	7
J-6	yes	yes	3	8
J-7	no	yes	3	12
J-8	no	yes	3	12
J-9	yes	yes	3	12
J-10	no	yes	2	12
J-11	no	no	4	12
J-12	no	no	4	12
J-13	no	no	4	12
J-14	no	yes	4	7
J-15	yes	yes	4	8
J-16	no	yes	6	7
J-17	no	yes	6	8
J-18	no	no	5	8
J-19	no	yes	5	7
J-20	no	yes	4	7
J-21	no	no	5	12
J-22	no	no	5	12
J-23	yes	yes	Street Sweepings	
J-24	yes	yes	Street Side Soil	
J-25	yes	yes	Street Sweepings	

See attached floor maps for sample locations.

Each sample will be analyzed for total lead and the amount of lead per square meter will be calculated. These numbers will be used to determine a clean level and all rooms with lead exceeding those levels will be cleaned.

Both samplers will wear personal air pumps to sample for respirable lead.

<u>EPA Approved Analytical Procedures</u>

The following are EPA procedures referenced for measurement of the recommended parameters:

Measurement Parameter	EPA Storet No.	Analytical Procedure Reference
Lead (Total)	01051	EPA 600/4-79-020 Methods for Chemical Analysis of Water and Wastes, March 1979 239.1 & 239.2

Sampling Method

The sample will be collected by sweeping all the dust in a 5 foot by 5 foot area into a pile. If the pile is to large for a sample, it will be reduced by the following method. The pile is mixed and cut into four equal parts by two bisecting lines. Opposite sides are discarded and the remaining parts are mixed together. If the sample is still too large then the procedure is repeated until it is small enough. The sample is then picked up with a clean spatula and placed in a Zip Lock plastic bag and sealed.

Sample Custody

Same as for Phase 1 Identified Response Action.

Results and Discussion

The results and the calculations of the amount of lead per square meter are given below (for analytical results see attached PACE Laboratory report dated July 29, 1986):

Sample	# cuts	Spl. wt gm	Dust g/M2	lead mg/Kg	lead g/M2
J-1	0	93	40	870	.03
J-2	1	494	426	1,500	.64
J-3	2	586	1010	2,700	2.7
J-4	1	261	225	12,000	2.7
J-5	1	54	47	2,500	.12
J-6	0	125	54	3,000	.16
J-7	5	389	5366	1,100	5.9
J-8	0	93	40	4,100	.16
J-9	1	225	194	2,800	.54
J-10	0	369	159	1,400	.22
J-11	3	367	1,266	2,500	3.2
J-12	3	535	1,845	6,900	12.7
J-13	0	269	116	7,300	.85

J-14	4	341	2,352	8,500	20.0
J-15	0	23	10	3,000	.03
J-16	0	218	94	11,000	1.0
J-17	2	480	828	13,000	10.7
J-18	0	46	20	1,200	.02
J-19	2	330	569	8,800	5.0
J-20	2	122	210	7,300	1.5
J-21	8	608	67,090	3,300	221.
J-22	1	255	220	4,300	.94
J-23	5 sq ft	337	725	1,200	.87
J-24	6 x 6 inches	201	8,664	830	7.2
J-25	5 sq ft	901	1,938	640	1.2

The attached maps of floors 1 through 6 show the locations where the samples were taken. When comparing just the concentration of lead in the the dust samples to lead in the street background samples only one sample is below the background. This does not take into consideration the amount of dust in the sample area. It also does not take into consideration the likelihood that the lead concentration of the street dust was higher in years past because the change to unleaded gas is relatively recent. Concentrations as high as 10,000 mg/Kg have been reported in Minnesota at heavily traveled intersections. This would indicate that background lead levels as high as 86 gms Pb / M2 are possible. Eight of the sample areas have less lead than the streets. Ten of the sample areas are in the same range as the streets. Only four of the sample areas have more lead than is found on the streets.

The non-randomness of the dust is demonstrated by samples 7 and 8 and samples 12 and 13. Sample 7 and 12 were located on the former steel plate isleways. Samples 8 and 13, respectively, were immediately adjacent to them in areas not formerly covered by steel plates. The isleways have 36 times and 15 times, respectively, as much lead as the immediately adjacent space.

There does not seem to be a correlation between color and lead concentration. But the amount of lead, which reflects both the amount of dust and the concentration of lead, does seem to be related to the past use of the areas. The pigment storage and paint mixing areas have the most lead, while finished product and filling areas have the least.

The first floor areas have as much lead as the streets or less. The finished product storage area in building 12 and the shipping room of building 11 are much cleaner than the streets. The unloading area in building 7 is where incoming materials were received. The dust there has the same amount of lead as the street. The amount of dust is estimated to be 1,800 lbs..

The second floor is used for finished product storage and empty can storage. With the exception of a thin strip of dust in building 7, the floor has very little dust and the amount of lead is below the street levels. Sample J-4 was taken from a small area that used to have metal plates on the floor. The amount of dust in this area is estimated to be 5 lbs..

The third floor was used for paint filling and although most of the production tanks are located on this floor, it is very clean except for an area in building 12 where the metal plate isleveys were located. Even in this area, the amount of lead is about the same as that found in the street. The amount of dust is estimated to be 600 lbs..

The fourth floor has lead in buildings 7 and 12, but building 8 is clean. Again, most of the dust is where the metal plates used to be. Those areas have more lead than the streets while the remaining area has about as much as the streets. The

amount of dust is estimated to be 820 lbs..

The fifth floor has lead in all three buildings at or above the levels in the street. The highest amounts are under the former metal plate isleways in buildings 7 and 12, and on a portion of the floor in building 8. The area in building 8 was labeled a the lead pigment storage area which Valspar claims has not contained leaded pigments since about 1978. As is shown by sample J-18 about half of the room is clean. If the lead came from a leaded pigment, then it would be expected that four to six years of continuous operations would either have evenly distributed the lead in the room or the periodic cleaning would have removed the leaded pigments. Since part of the room is clean, the dusts must have been more recently deposited. This further shows that the lead is the result of ubiquitous contamination of unleaded pigments such as iron oxide. The wide range of particle sizes noted during the microscopic examination of the sample bag # 1 taken July 2, 1986 also suggests that the sample included street dusts.

The highest concentration of lead found on the site was in building 12. The heterogenaity of the material under the former metal plates is shown by the range of lead concentrations and the colors present.

sample #	color	lead mg/Kg	lead g/M2	in isleway?
"red dust"	red	4,200	-	no
vial #1	red/brown	2,820	-	yes
vial #2	dark gray	29,300	-	yes
vial #3	white	145	-	no
vial #4	yellow	4,190	-	no
bag #1	light gray	8,290	.8	no
J-18	off white	1,200	.02	no
J-19	red/brown	8,800	5.0	yes

J-21	gray	3,300	221	yes
J-22	gray	4,300	.9	yes

The amount of dust is estimated to be 2,200 lbs..

The sixth floor is clean except for small areas in buildings 7 and 8 where metal plates were removed. Building 12 was used as office space and although it has debris on the floor there are no dusts. The amount of dust is estimated to be 40 lbs..

Conclusions

There are three potential sources of lead contamination found in the dust in buildings 7, 8, and 12:

(1). leaded pigments
(2). ubiquitous lead in lead free pigments
(3). lead from street dust

There are indications that all three are present. Rather than try to further distinguish between the sources of the lead we recommend that all dusts be removed using a vacuum with a HEPA filter. Generally, on floors where the origin of the dust is most likely the street, the amount of dust is very small. Because none of the dusts are pure leaded pigments, we propose to use 55 grams of dust per square meter as the standard for clean. This is also the threshold of visual cleanliness.

The clean up plan for the pipes in the production area requires that workers have access to most of the floors in the buildings 7, 8, and 12. To assure that they are not exposed to a respirable lead hazard the removal of dust to below 55 grams per square meter, would more than offset the slightly higher concentrations found in the dust in the plant as compared to the street dust. In most cases this means that there will be twelve times as much lead in the street as there is in the plant.

sample #	dust g/M2	lead g/M2	ave.lead g/M2	
J-1	40	.03		
J-5	47	.12		
J-6	54	.16		
J-8	40	.16		
J-15	10	.03		
J-18	20	.02	.09	
J-23	725	.87		
J-25	1,938	1.24	1.06	.09/1.06=12

Clean-up Plan for Dust

The dust will be removed using a 15 gallon Hako Minuteman asbestos vacuum (model no. C80315, see attached specification sheet). The vacuum has a total of five filters including a HEPA filter, and will remove particles down to 0.3 microns. This model was selected because of its portability and because the full bags can be easily and safely carried down to the first floor to be placed in 55 gallon drums for disposal.

The workers will be a three man team with level C protection. They will use 3M type 8715 dust and mist respirators. These respirators are approved by NIOSH/MSHA for dusts and mists including asbestos and lead (approval no. TC-21C-361).

This work is estimated to take one week, and will be completed before remedial actions concerning tanks and pipes are started in the production area. The start date will be when the IEPA gives their approval, but could be as early as August 13, 1986.

I-13

If you have any questions please call me at (612) 429-4219 or (612) 429-4755.

Very truly yours,

James A. Kinsey

James A. Kinsey
President

I-14

pace laboratories, inc.
PROFESSIONAL ANALYTICAL CHEMISTRY & ENGINEERING

PRINCIPALS
STEVE A. VANDERBOOM
WILLIAM A. O'CONNOR

1710 Douglas Drive North □ Minneapolis, MN 55422 □ Phone (612) 544-5543

June 26, 1986

Mr. Phil Ruhoff
Valspar Corporation
1101 South 3rd Street
Minneapolis, MN 55415

Dear Mr. Ruhoff:

Enclosed are reports of laboratory analysis for sample(s) received June 19, 1986.

If you have any questions concerning this report, please feel free to contact me at any time.

Sincerely,

William A. O'Connor, C.P.C.
Laboratory Director

WAO/lg

Enclosures

cc: Mr. Jim Kinsey, Waste Reduction

pace laboratories, inc.
PROFESSIONAL ANALYTICAL CHEMISTRY & ENGINEERING

PRINCIPALS
STEVE A. VANDERBOOM
WILLIAM A. O'CONNOR

1710 Douglas Drive North □ Minneapolis, MN 55422 □ Phone (612) 544-5543

June 26, 1986

Valspar Corporation
1101 South 3rd Street
Minneapolis, MN 55415

Attn: Mr. Phil Ruhoff

REPORT OF LABORATORY ANALYSIS

Date Sample(s) Collected:
Date Sample(s) Recieved: June 19, 1986

Parameter	Red Dust From 5th Floor
Iron, mg/kg	235,000
Lead, mg/kg	4,200

The data contained in this report was obtained using EPA or other approved methodologies. All analyses were performed by me or under my direct supervision.

William A. O'Connor, C.P.C.
Laboratory Director

WAO/lg

COPY TO
J. KINSEY @
~~WASTE REDUCTION~~
KINSEY CONSULTANTS

LAB REPORTS
Contact HERB DENKER
Client VALSPAR
Received 7/8/86
P.O.
Inv #
Attach
TH ___ CA ___ WC ___

SEE NEW CLIENT FORM

PARAMETER		#239
pH		9
F.Pt	°F	>200
TS	%	41
Ba	mg/kg	46
Cd		0.22
Cr		<1.1
Pb		<2.2
Ag		<4.0
As		0.25
Se		<0.08
Hg		0.11

pace laboratories, inc.

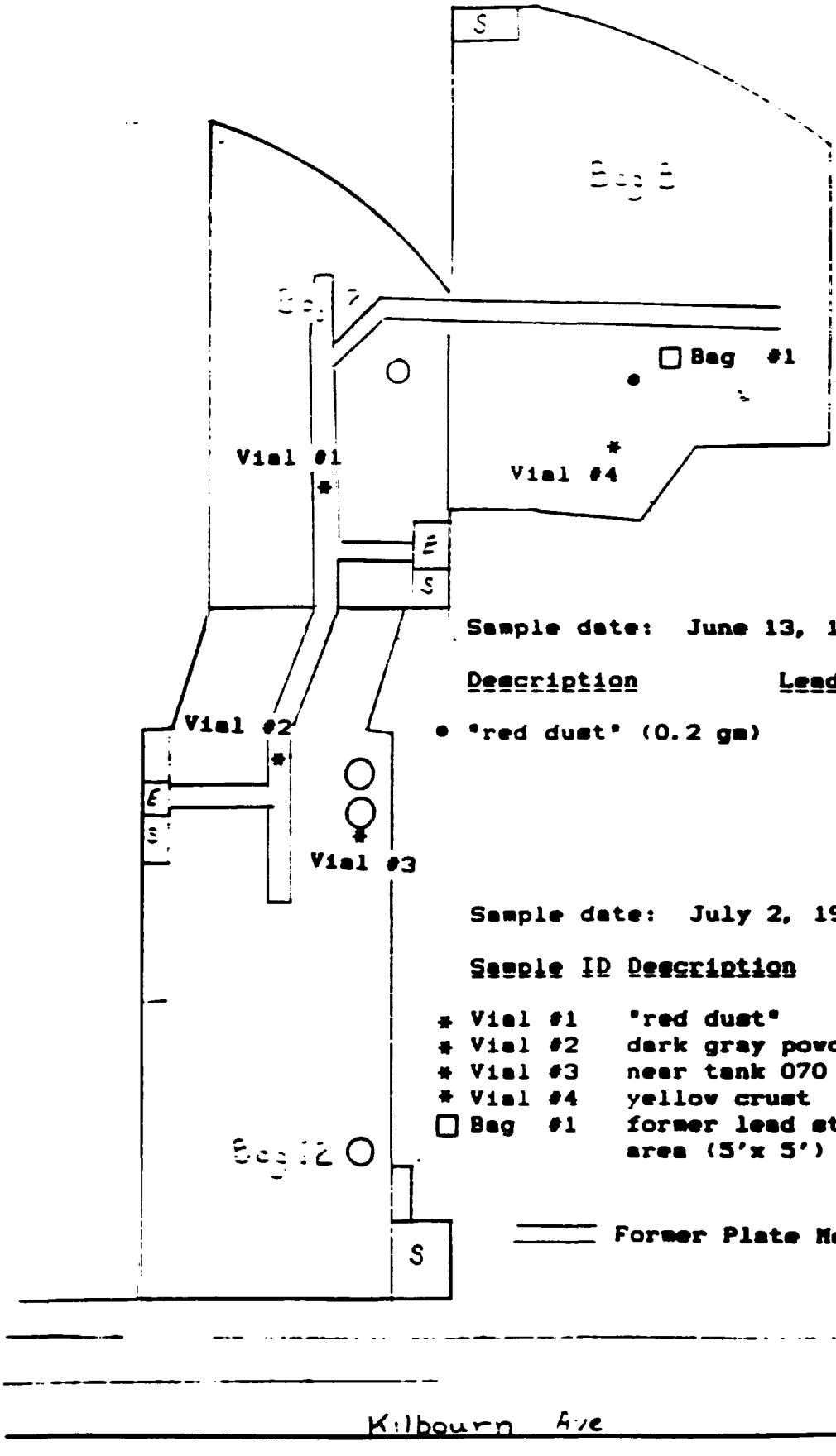
SAMPLE AND ANALYSIS
DATA ENTRY FORM

Client Name:
Address:
Client #:
Lab Rec'd Date: 7/
Special Instructio

Sample #	Sample Description (30 characters)
6149	#239
	Analysis: pH F.P. TS
	Analysis:
	Analysis:
	Analysis:
	Analysis:
	Analysis:
	Analysis:

Bottle Types: Cyanide CN
General GN
Metals Not-filt. MN
Metals Filtered MU
Nutrients

Floor 5



Sample date: June 13, 1986

Description	Lead ug/g	Iron ug/g
• "red dust" (0.2 gm)	4,200	23,500

Sample date: July 2, 1986

Sample ID	Description	Lead ug/g
* Vial #1	"red dust"	2,820
* Vial #2	dark gray powder	29,300
* Vial #3	near tank 070	145
* Vial #4	yellow crust	4,190
□ Bag #1	former lead storage area (5'x 5')	8,290

THOMPSON ASSOCIATES

229 Kennard Street
St. Paul, Minnesota 55106
(612) [redacted] 774-0441

ta thompson [redacted] associates

July 15, 1986

Waste Reduction Inc.
5367 Eagle Street
White Bear Lake, MN 55110

Dear Mr. Kinsey:

The following results were obtained from the analysis of samples taken July 2, 1986, at the 1330 S. Kilbourne Ave. site in Chicago, Illinois. Samples were analyzed for lead, asbestos, or both. Lead was analyzed by flame atomic absorption and asbestos by phase contrast microscopy.

Sample ID	Lead, μg/g	Asbestos
Vial #1	2,820	-
Vial #2	29,300	-
Vial #3	145	no fibers found
Vial #4	4,190	-
Bag #1	8,290	-
Bag #2	924	-
Bag #3	-	no fibers found
Bag #5	230	-
Filter #1	-	< 0.2 fibers/cc
Filter #2	none found, but sample time was too short for adequate sensitivity	

Sincerely,

Fay M. Thompson

Fay M. Thompson, Ph.D., C.I.H.

pace laboratories, inc.
PROFESSIONAL ANALYTICAL CHEMISTRY & ENGINEERING

PRINCIPALS
STEVE A. VANDERBOOM
WILLIAM A. O'CONNOR

1710 Douglas Drive North □ Minneapolis, MN 55422 □ Phone (612) 544-5543

August 6, 1986

Mr. Herb Denker
Valspar Corporation
1101 South Third Street
Minneapolis, MN 55415

Dear Mr. Denker:

Enclosed are reports of laboratory analysis for sample(s) received July 3, 1986.

If you have any questions concerning this report, please feel free to contact me at any time.

Sincerely,

Thomas L. Halverson
Inorganic Chemistry Manager

TLH/lg

Enclosures

cc: Mr. Jim Kinsey, Kinsey Consulting, Inc.

pace laboratories, inc.
PROFESSIONAL ANALYTICAL CHEMISTRY & ENGINEERING

PRINCIPALS
STEVE A. VANDERBOOM
WILLIAM A. O'CONNOR

1710 Douglas Drive North □ Minneapolis, MN 55422 □ Phone (612) 544-5543

August 6, 1986

Valspar Corporation
1101 South Third Street
Minneapolis, MN 55415

Attn: Mr. Herb Denker

REPORT OF LABORATORY ANALYSIS

Date Sample(s) Collected:
Date Sample(s) Received: July 3, 1986

Parameter	Minimum Detection Limit	Brown Powder
Barium, mg/l (1)	0.2	2.8
Cadmium, mg/l (1)	0.01	0.29
Chromium, mg/l (1)	0.05	<0.05
Lead, mg/l (1)	0.1	20
Silver, mg/l (1)	0.04	0.10
Arsenic, ug/l (1)	1	9
Selenium, ug/l (1)	1	2
Mercury, ug/l (1)	0.2	2.6
Lead, mg/kg	-	8,200

< means "less than"

(1) Analysis Performed On EP Toxic Leachate.

The data contained in this report was obtained using EPA or other approved methodologies. All analyses were performed by me or under my direct supervision.

Thomas L. Halverson
Inorganic Chemistry Manager

TLH/lg
cc: Mr. Jim Kinsey, Kinsey Consulting, Inc.

pace laboratories, inc.
PROFESSIONAL ANALYTICAL CHEMISTRY & ENGINEERING

PRINCIPALS
STEVE A. VANDERBOOM
WILLIAM A. O'CONNOR

1710 Douglas Drive North □ Minneapolis, MN 55422 □ Phone (612) 544-5543

July 29, 1986

Mr. Jim Kinsey
Kinsey Consulting, Inc.
5367 Eagle Street
White Bear Lake, MN 55110

Dear Mr. Kinsey:

Enclosed are reports of laboratory analysis for sample(s) received July 21, 1986.

If you have any questions concerning this report, please feel free to contact me at any time.

Sincerely,

William A. O'Connor, C.P.C.
Laboratory Director

WAO/lg

Enclosures

cc: Mr. Herb Denker, Valspar Corporation

pace laboratories, inc.
PROFESSIONAL ANALYTICAL CHEMISTRY & ENGINEERING

PRINCIPALS
STEVE A. VANDERBOOM
WILLIAM A. O'CONNOR

1710 Douglas Drive North □ Minneapolis, MN 55422 □ Phone (612) 544-5543

July 29, 1986

Kinsey Consulting, Inc.
5367 Eagle Street
White Bear Lake, MN 55110

Attn: Mr. Jim Kinsey

REPORT OF LABORATORY ANALYSIS

Date Sample(s) Collected:
Date Sample(s) Recieved: July 21, 1986

Sample	Lead, mg/kg
J - 1	870
J - 2	1,500
J - 3	2,700
J - 4	12,000
J - 5	2,500
J - 6	3,000
J - 7	1,100
J - 8	4,100
J - 9	2,800
J - 10	1,400
J - 11	2,500
J - 12	6,900
J - 13	7,300
J - 14	8,500
J - 15	3,000
J - 16	11,000
J - 17	13,000
J - 18	1,200
J - 19	8,800
J - 20	7,300
J - 21	3,300
J - 22	4,300
J - 23	1,200
J - 24	830
J - 25	640
PMF 12879P	<0.005 mg/filter
PMF 12387P	<0.005 mg/filter

< means "less than"

The data contained in this report was obtained using EPA or other approved methodologies. All analyses were performed by me or under my direct supervision.

William A. O'Connor, C.P.C.
Laboratory Director

WAO/lg

cc: Mr. Herb Denker, Valspar Corporation

laboratories, inc

710 Douglas Drive North Minneapolis, MN 55422 ~~612-544-5543~~

CHAIN OF CUSTODY RECORD

NO. 2486

PROJECT LOCATION: 1330 Kilbourne

NAME OF CLIENT: Kinsey Consulting Inc

PROJECT TELEPHONE NO: 612-429-4219

PROJECT NUMBER:

ITEM NO.	SAMPLE NO	TIME	NO OF CONTAINERS	GENERAL	METALS	NITROGEN	CYANIDE	VOLATILES			SAMPLE DESCRIPTION	TRANSFER NO. & CHECK 1	2	3	4	5	6	7
1	J-1	11:55	1		X						J-1 Dusts	✓						
2	J-2	12:03	1		X						J-2	✓						
3	J-3	12:12	1		X						J-3	✓						
4	J-4	12:20	1		X						J-4	✓						
5	J-5	12:27	1		X						J-5	✓						
6	J-6	12:39	1		X						J-6	✓						
7	J-7	12:48	1		X						J-7	✓						
8	J-8	12:55	1		X						J-8	✓						

PERSON RESPONSIBLE FOR SAMPLE COLLECTION: James A. Kinsey

AFFILIATION: KCI

DATE: 7-28-86

TIME: 1:00 PM

PURPOSE OF ANALYSIS (use back of front sheet if needed)

Total lead content of dust

Save samples for possible EP Toxicity (Pb)

ORIGINAL

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
1	1-8	James A. Kinsey	mm	7/21/86	1:05
2					
3					
4					
5					
6					
7					

I-25

laboratories, inc

1710 Douglas Drive North Minneapolis, MN 55422 612-544-5543

CHAIN-OF-CUSTODY RECORD

NO. 2 37

PROJECT LOCATION: 1330 Kilbourne

NAME OF CLIENT: Kinsey Consulting, Inc

PROJECT TELEPHONE NO: 612-429-4219

PROJECT NUMBER:

ITEM NO	SAMPLE NO	TIME	NO OF CONTAINERS	GEVERAL	METALS	NITROGEN	CYANIDE	VOLATILES			SAMPLE DESCRIPTION	TRANSFER NO. & CHECK 1	2	3	4	5	6	7
1	J-9	3:44	1		X						Dust	✓						
2	J-10	3:50	1		X							✓						
3	J-11	3:58	1		X							✓						
4	J-12	4:04	1		X							✓						
5	J-13	4:10	1		X							✓						
6	J-14	4:40	1		X							✓						
7	J-15	4:45	1		X							✓						
8	J-16	4:50	1		X							✓						

I26

PERSON RESPONSIBLE FOR SAMPLE COLLECTION: James A. Kinsey

AFFILIATION: KCI

DATE: 7-18-86

TIME:

PURPOSE OF ANALYSIS (use back of front sheet if needed)

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
1	1-8	James A. Kinsey	MM	7/21/86	1:05 pm
2					
3					
4					
5					
6					
7					

ORIGINAL

laboratories, inc.

1710 Douglas Drive North Minneapolis, MN 55422 612-544-5543

CHAIN-OF-CUSTODY RECORD

NO. 2488

PROJECT LOCATION	NAME OF CLIENT	PROJECT TELEPHONE NO.	PROJECT NUMBER
1330 Kilbourne	Kinsey Consulting Inc	612 429 4219	

ITEM NO.	SAMPLE NO	TIME	NO OF CONTAINERS	GENERAL	METALS	NITROGEN	CYANIDE	VOLATILES			SAMPLE DESCRIPTION	TRANSFER NO. & CHECK 1	2	3	4	5	6	7
1	J-17	4:50	1		X						Dust	✓						
2	J-18	5:06	1		X							✓						
3	J-19	5:09	1		X							✓						
4	J-20	4:35	1		X							✓						
5	J-21	5:18	1		X							✓						
6	J-22	~~6:05~~ 5:24	1		X							✓						
7	J-23	6:15	1		X							✓						
8	J-24	6:30	1		X							✓						

PERSON RESPONSIBLE FOR SAMPLE COLLECTION	AFFILIATION
James Kinsey	KCI

DATE	TIME
7-18-86	7:00

PURPOSE OF ANALYSIS (use back of front sheet if needed)

ORIGINAL

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
1	1-8	James A. Kinsey	mm	7/28/86	1:05pm
2					
3					
4					
5					
6					
7					

121

laboratories, inc

1710 Douglas Drive North Minneapolis, MN 55422 612-544-5543

CHAIN-OF-CUSTODY RECORD

NO. 2 19

PROJECT LOCATION	NAME OF CLIENT	PROJECT TELEPHONE NO	PROJECT NUMBER
1330 Kilbourne	Kinsey Consulting Inc.	612 429 4219	

ITEM NO	SAMPLE NO	TIME	NO OF CONTAINERS	GENERAL	METALS	NITROGEN	CYANIDE	VOLATILES			SAMPLE DESCRIPTION	TRANSFER NO. & CHECK 1	2	3	4	5	6	7
1	5-25		1		X							✓						
2	251				X						personal monitoring filter 12879P	✓						
3	124				X						personal monitoring filter 12387P	✓						
4																		
5																		
6																		
7																		
8																		

PERSON RESPONSIBLE FOR SAMPLE COLLECTION: James A Kinsey

AFFILIATION: KCI

DATE: 7-18-86

TIME:

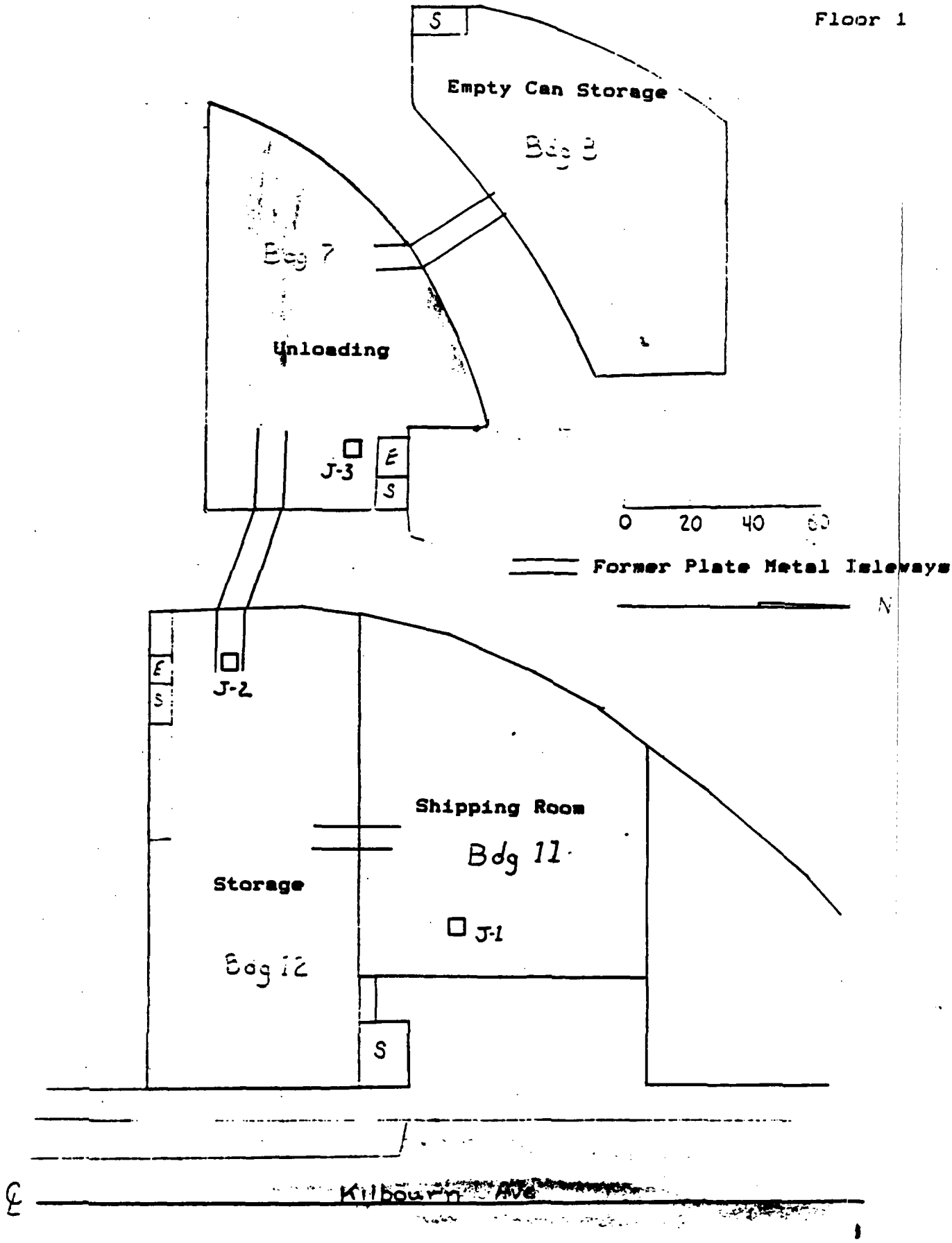
PURPOSE OF ANALYSIS (use back of front sheet if needed)

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
1	1-8	James A. Kinsey	M.M	7/21/86	1:05pm
2					
3					
4					
5					
6					
7					

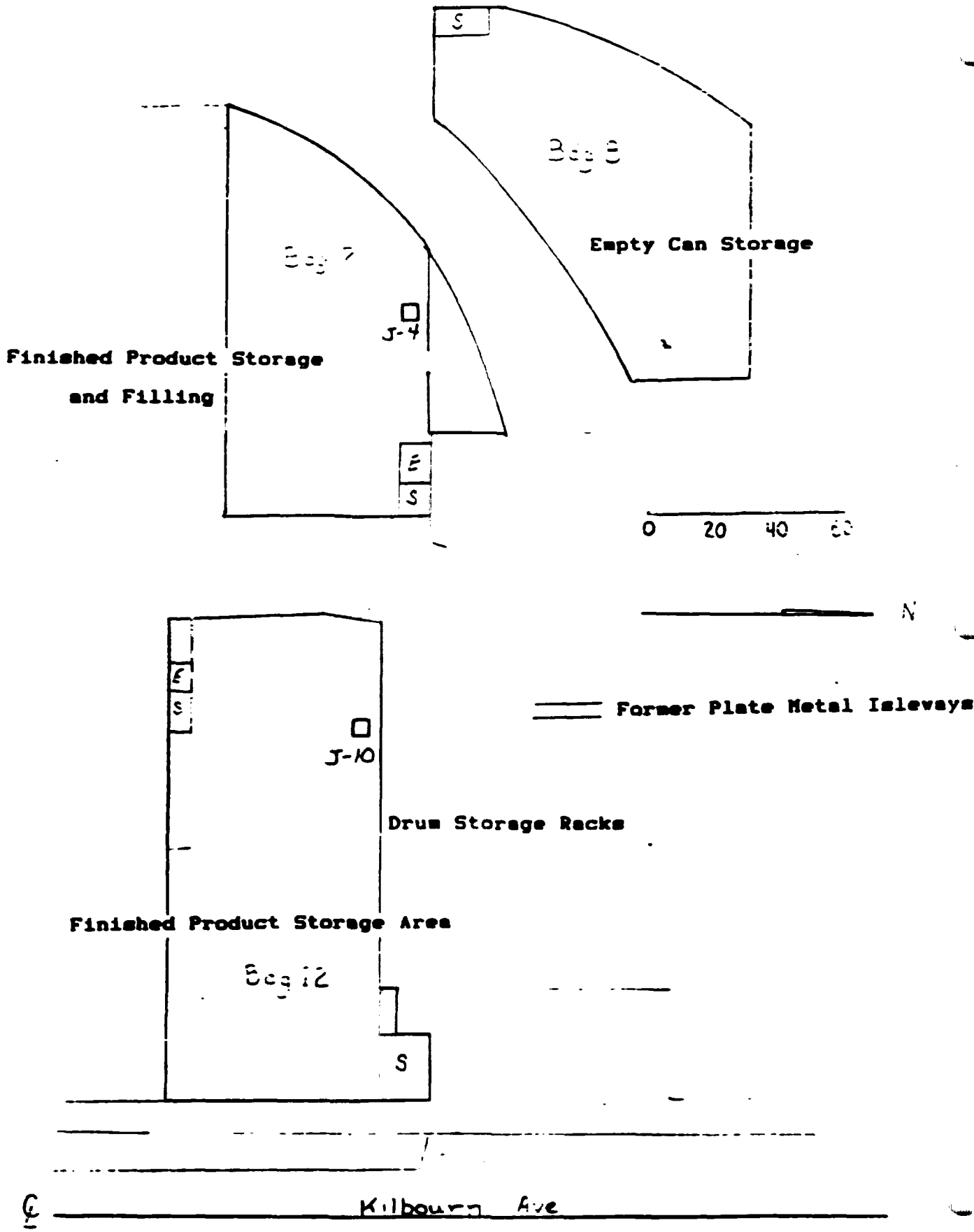
ORIGINAL

I 25

Floor 1

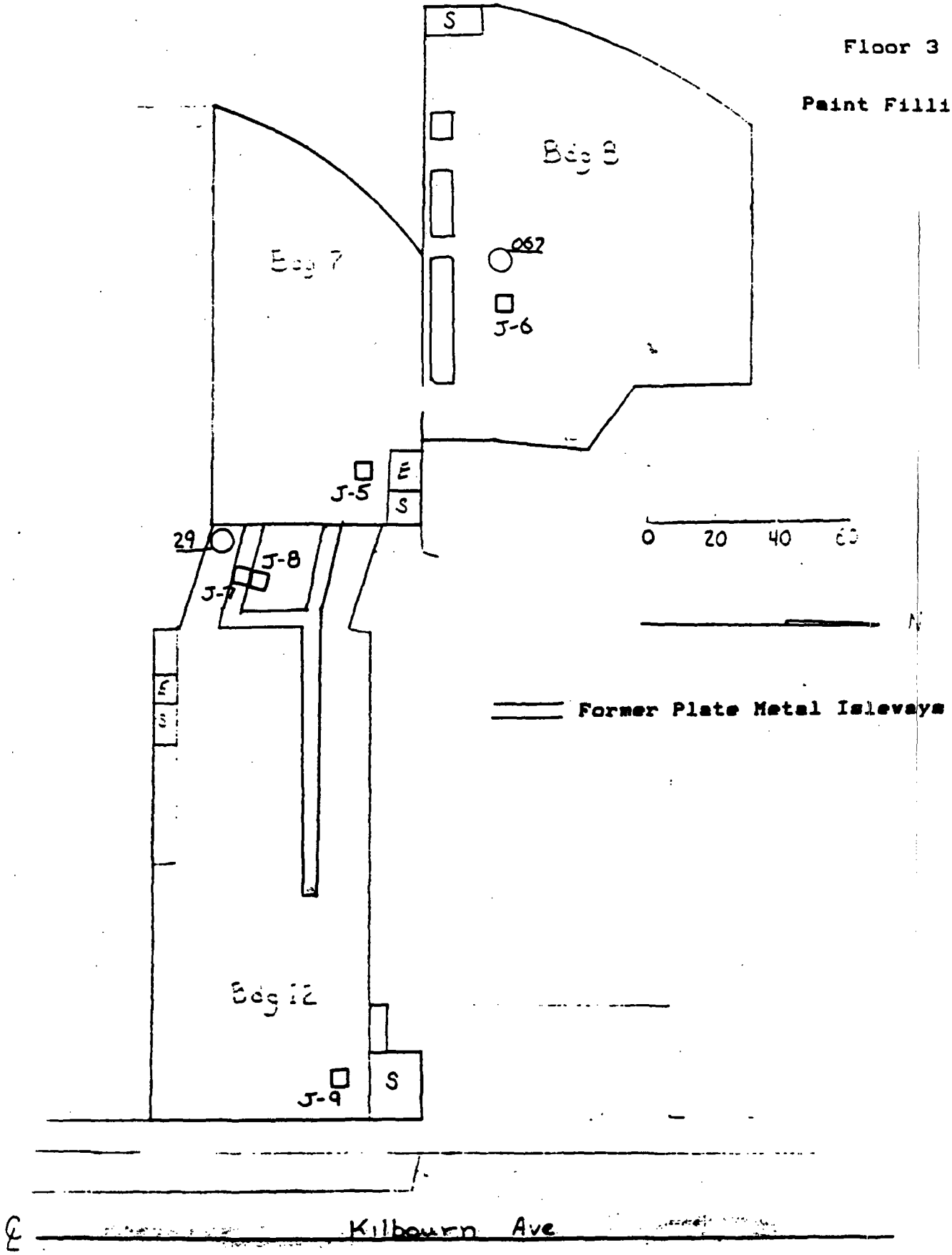

S
Empty Can Storage
Bdg 3
Bdg 7
Unloading
J-3
E
S
0 20 40 60
Former Plate Metal Isleways
N
E
S
J-2
Shipping Room
Bdg 11
Storage
Bdg 12
J-1
S
Kilbourn Ave

Floor 2

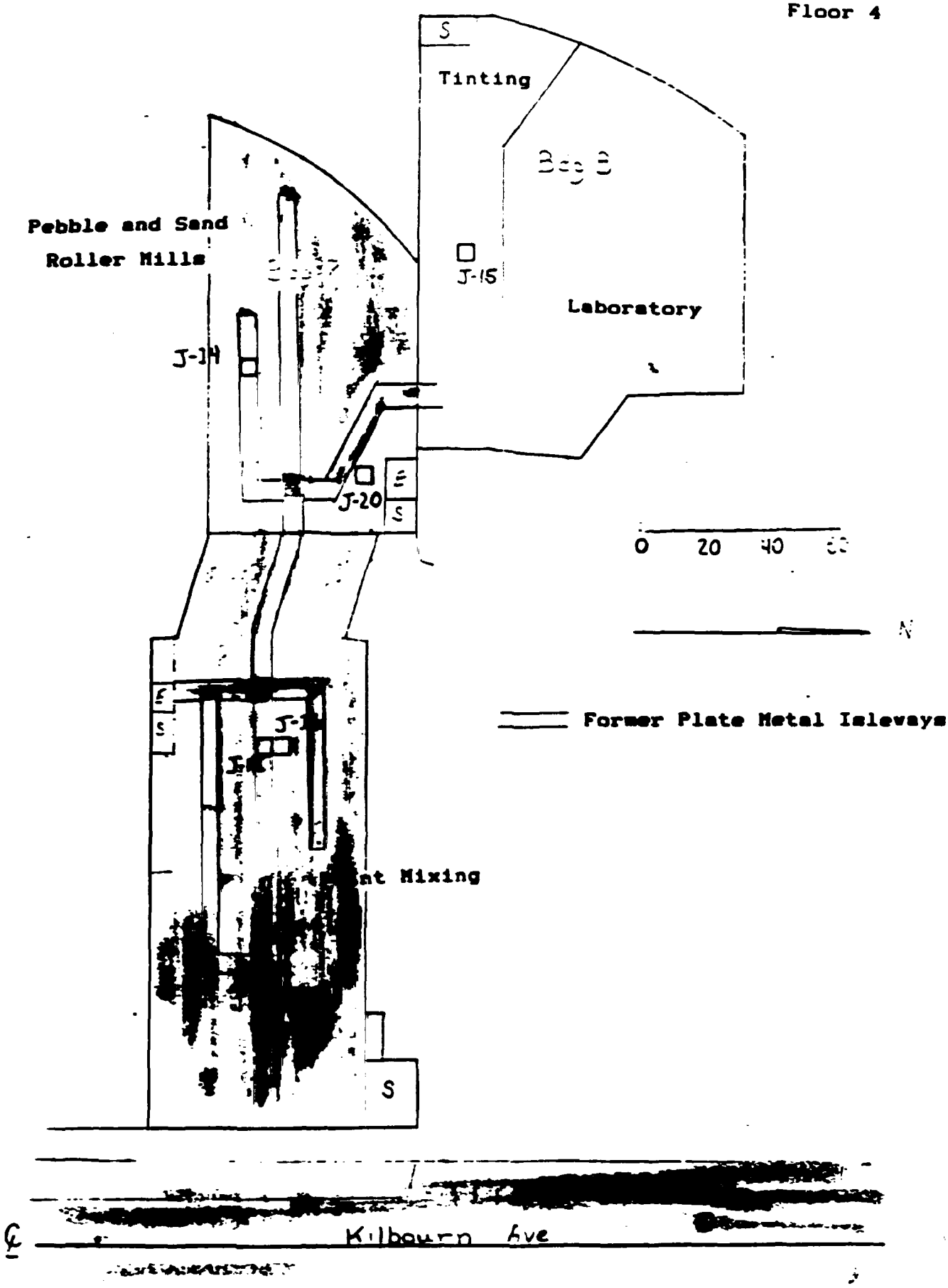

S
Bay 8
Empty Can Storage
Bay 7
J-4
Finished Product Storage
and Filling
E
S
0
20
40
N
E
S
J-10
Former Plate Metal Isleways
Drum Storage Racks
Finished Product Storage Area
Bay 12
S
Kilbourn Ave

Floor 3

Paint Filling

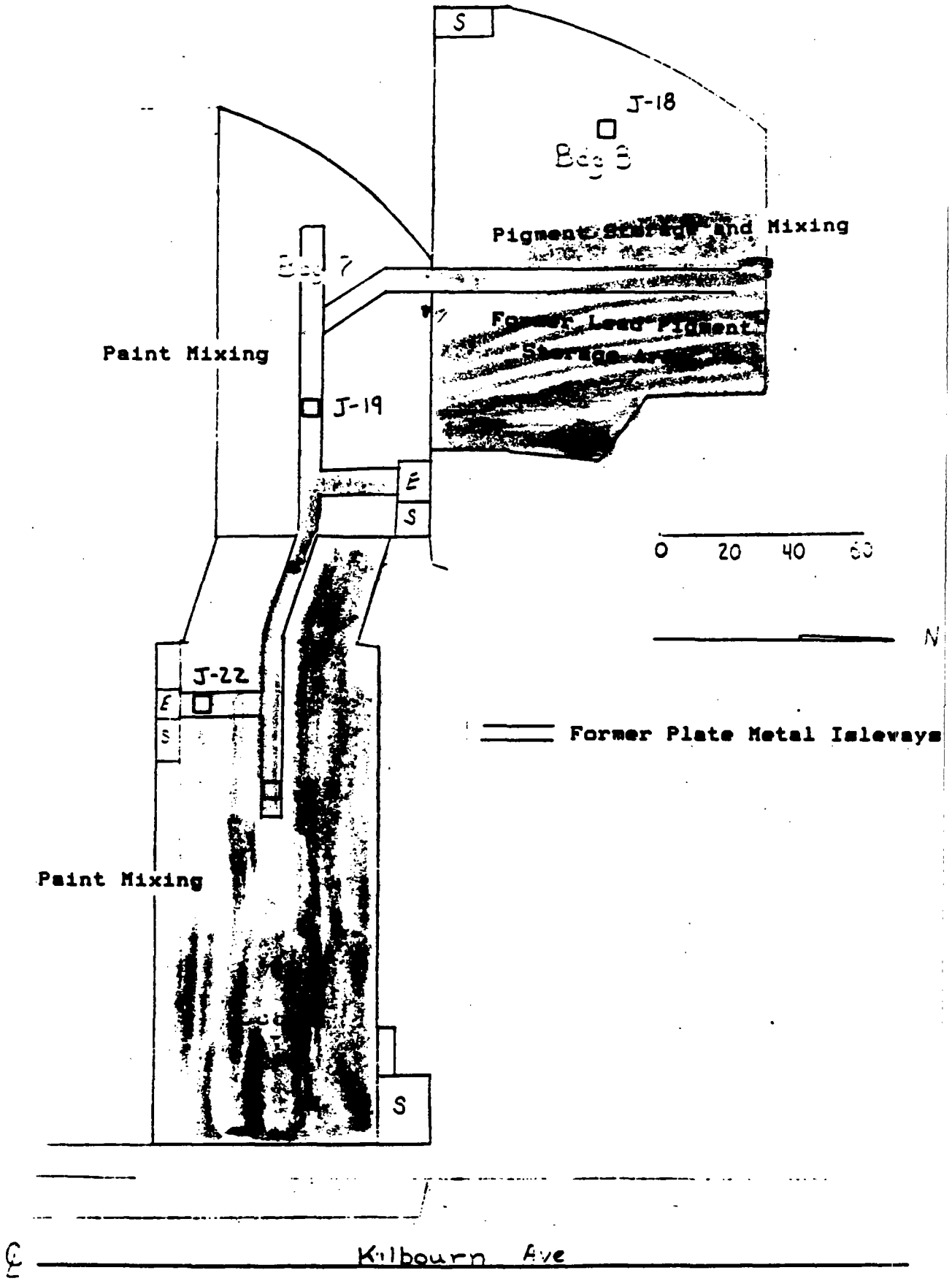


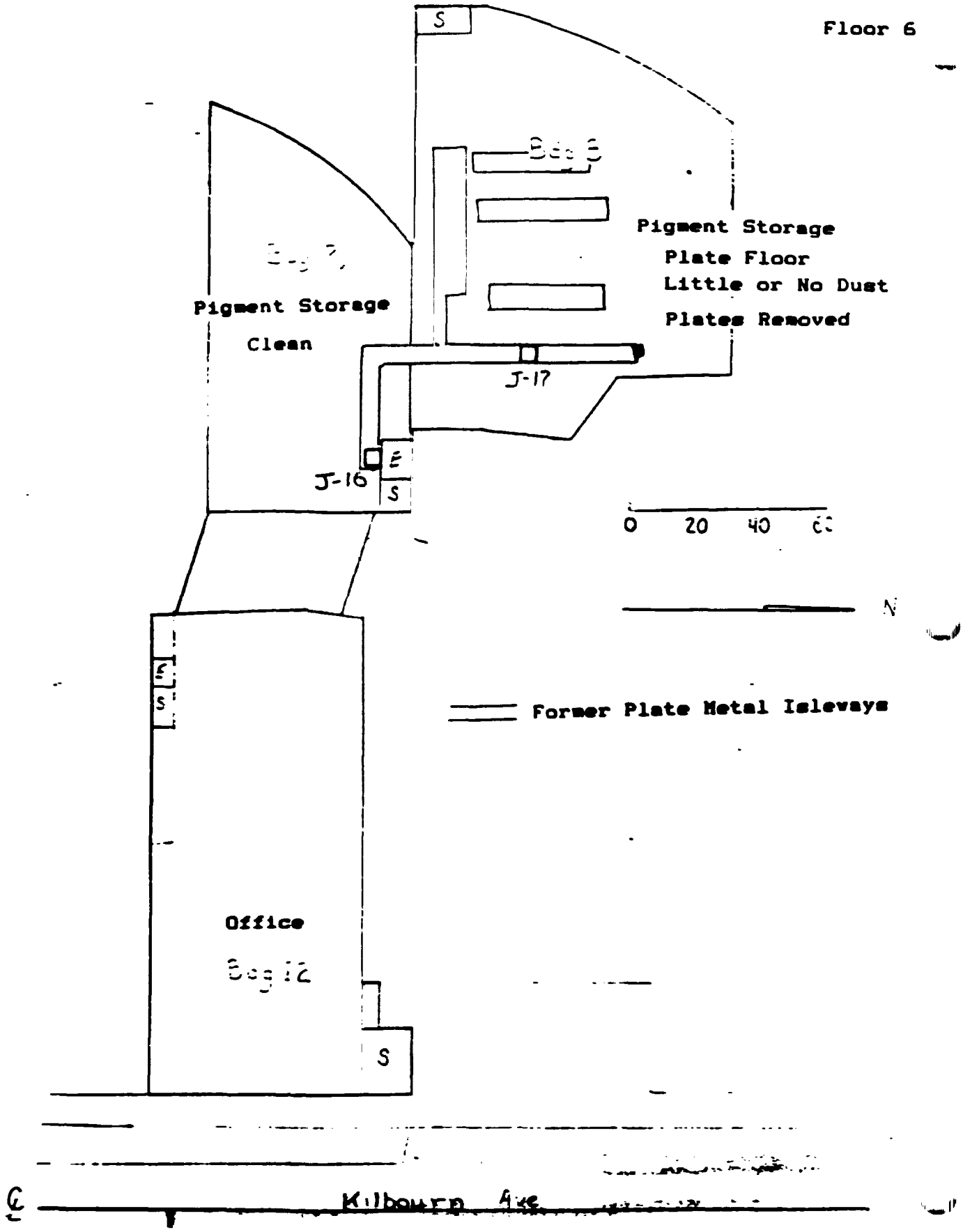
Floor 4



S
Tinting
Bdg B
Pebble and Sand
Roller Mills
J-15
Laboratory
J-14
J-20
E
S
0 20 40
N
Former Plate Metal Isleways
E
S
J-1
nt Mixing
S
Kilbourn Ave

Floor 5


S
J-18
Bag 8
Pigment Storage and Mixing
Bag 7
Former Lead Pigment Storage Area
Paint Mixing
J-19
E
S
0 20 40 60
N
J-22
E
S
Former Plate Metal Isleways
Paint Mixing
S
Kilbourn Ave


Floor 6
S
Bldg 8
Pigment Storage
Plate Floor
Little or No Dust
Plates Removed
Bldg 7
Pigment Storage
Clean
J-17
E
J-16
S
0
20
40
N
E
S
Former Plate Metal Isleways
Office
Bldg 12
S
Kilbourn Ave

J

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY MEMORANDUM

DATE: November 25, 1986

TO: Division File

FROM: Mitch Levin, ML LPC/FOS, Maywood

SUBJECT: 0316005445 - Cook County
Chicago/Valspar
Superfund/Technical Reports

This report covers the period between November 10, 1986 and November 21, 1986. During this time Roy Weston, Inc. completed the tasks of pressure testing the underground tanks and cleaning out the solvent and resin transfer pipes.

The underground storage tanks are filled with nitrogen to 5 psig for 24 hours. The tanks were isolated by blocking off the inlet and outlet pipes located in the alley between buildings 5 and 7. All underground tanks are holding pressure with the exception of tanks 88, 292 and 293.

Weston's strategy for cleaning the transfer pipes was to disconnect the pipes at low points so that material could drain by gravity. Weston would then blow air through sections of the pipes to remove as much organic vapor as possible.

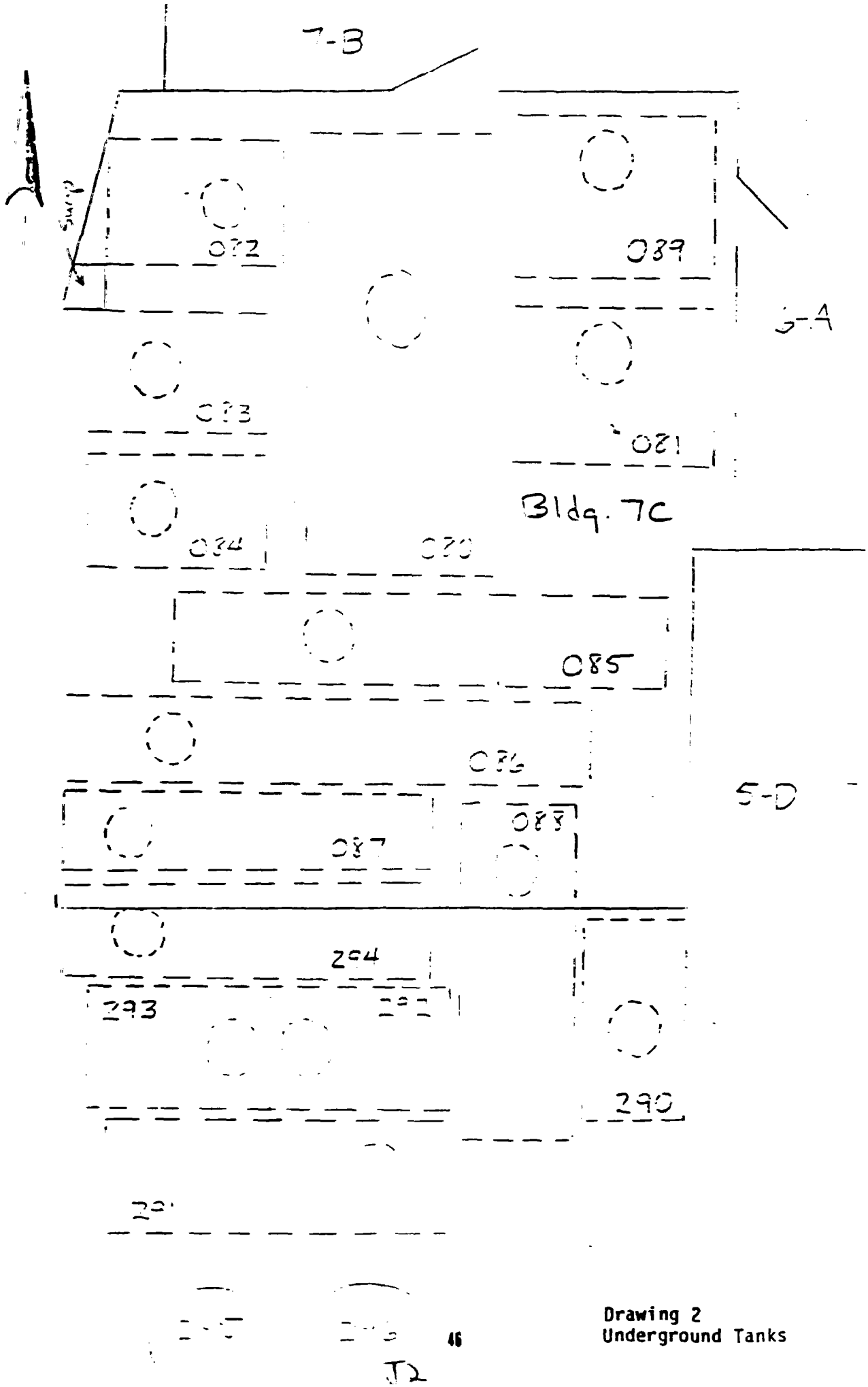
Jim Janssen and Tim Greetis of HSCS visited the site on November 19, 1986 from 12:00 noon to 1:30 p.m. Jim Kinsey of Weston walked the site with us and verified the areas that had been cleaned. Janssen concluded that the inside of the building had been cleaned as much as possible. However, he added that further remedial work (soil borings, tank removal) may be necessary around the underground storage tanks that did not hold pressure. At the request of Janssen, I sampled a small tin container of oil next to some transformers in the basement of building 12. The sample was taken on November 21, 1986 in a 4oz glass jar. The oil was light yellow in color and had a texture heavier than gasoline. The oil will be analyzed at Gulf Coast Labs for PCB's.

Weston workers used level D protection throughout this reporting period, and no safety violations were observed. Immediate work remaining involves the steam cleaning of all underground tanks.

MJL:pgb:0452P

cc: Tim Greetis
Northern Region

RECEIVED
DEC - 5 1986
IEPA-DLPC



Drawing 2
Underground Tanks

Valspar
GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815) 723-75
Superfund Technical
Division Hdq

ANALYTICAL REPORT

TO: Environmental Protection Agncy
2200 Churchill Road
Springfield Il 62706

ATTN: Mrs. Susan Doubet

DATE: 12/12/86

RE: Chicago Flash Point
Monitoring Point X101
Sample Date: 11/21/86
Date Received: 12/05/86
GCL Number: 96273

GCL #	PARAMETERS	ANALYST		RESULTS		
96273	Aroclor 1016	lsm	<	5	mg/kg	W
96273	Aroclor 1221	lsm	<	5	mg/kg	W
96273	Aroclor 1242	lsm	<	5	mg/kg	W
96273	Aroclor 1248	lsm	<	5	mg/kg	W
96273	Aroclor 1254	lsm	<	5	mg/kg	W
96273	Aroclor 1260	lsm	<	5	mg/kg	W
96273	PCBs, Total	lsm	<	5	mg/kg	W

Approved: John Boudreau

Analyst _____ Date 12/14/86

J3

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY MEMORANDU

DATE: August 17, 1987

TO: Division File

FROM: Mitch Levin, ML LPC/FOS, Maywood

SUBJECT: 0316005445/Cook County
Chicago/Valspar
Superfund/Technical Reports

On August 13, 1987 I took HNu readings of underground storage tanks at the subject site. This was done at the request of Tim Greetis of RPMS. I was accompanied by James Kinsey of Roy Weston, Inc.

Readings were taken by dropping the HNu probe 2-3 feet into the tank. Readings were taken from vent pipes when the tank inlet was closed. The following tanks had readings greater than 5 ppm.

Tank Number	HNu (ppm)
80	25
81	60
82	10
87	55
290	80
291	20

ML:sa:0747K

cc: Tim Greetis
N. Region

RECEIVED
AUG 20 1987
IEPA/DLPC

IL 532-0570
EPA-90 (Rev. 6/75-20M)

J4

Illinois Environmental Protection Agency · 2200 Churchill Road, Springfield, IL 62706

217/782-6761

Refer to: Cook County - 0316005445
Chicago/Valspar - 1330 S. Kilbourne Avenue
Superfund/Technical Reports

October 30, 1987

Mr. Leo G. Stern
Fredrickson & Byron, P.A.
1100 International Center
900 Second Avenue South
Minneapolis, MN 55402

Mr. Michael Quinn
D'Ancona & Pflaum
30 North LaSalle Street
Suite 3100
Chicago, IL 60602

Mr. Mark Furse
Isham, Lincoln & Beale
Three First National Plaza
Chicago, IL 60602

Gentlemen:

This letter is in follow-up to our October 14, 1987 telephone conference. As indicated in that conference the Agency was concerned about the presence of organic vapors in 10 tanks which, according to the Final Report prepared by Mr. J. Kinsey, had previously contained hazardous wastes. The 10 tanks and associated Hnu (Organic Vapor Analyzer Instrument) readings as reported by Mr. Kinsey were as follows:

Tank #	Hnu Reading
U-2A	2
U-2B	2
U-3	3
U-8	15
U-9	2
U-10	6
U-11	15
U-12	25
U-14	14
U-50	5

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IEPA/DLPC

J5

The Agency conducted follow-up investigations with an Hnu from 4 of the 10 tanks on 8/13/87 and from all 10 tanks on 10/16/87 and again on 10/19/87. The Hnu readings on those days are summarized below.

	Tank #	Hnu Reading
8/13/87	U-8	80
	U-11	10
	U-12	25
	U-14	60
10/16/87	U-2A	No vapors detected
	U-2B	No vapors detected
	U-3	No vapors detected
	U-8	10
	U-9	No vapors detected
	U-10	No vapors detected
	U-11*	8
	U-12	95
	U-14*	No vapors detected
	U-50	No vapors detected
10/19/87	U-2A	No vapors detected
	U-2B	No vapors detected
	U-3	5
	U-8	5
	U-9	No vapors detected
	U-10	6
	U-11*	No vapors detected
	U-12	45
	U-14*	No vapors detected
	U-50	5.5

Those tanks which are marked with an asterisk were full of a liquid which visually appeared to be water.

The presence of the organic vapor readings described above seems inconsistent with the tank cleaning and pressure testing. One possible reason for the Hnu readings is that the tanks were not completely cleaned. Another possible reason for the reading is that the tanks may not be structurally sound and may have leaked. If volatile organic compounds leaked from the tank into the soil in the past, these compounds may now be leaking back into the tank through the path of least resistance.

We also question why Tanks U-11 and U-14 now contain liquids. Were liquids in the tanks during the pressure tests, or did they enter after their completion? How did the liquids enter the tanks?

For these reasons, we asked you in our September 18, 1987 letter and October 14, 1987 telephone conference to perform additional work on all of those tanks for which a positive Hnu reading in Mr. Kinsey's tests was obtained. However, inasmuch as the two subsequent IEPA Hnu tests showed no positive readings for Tanks U-2A, U-2B and U-9, we are requesting you to perform additional work only on Tanks U-3, U-8, U-10, U-11, U-12, U-14 and U-50. Either one of two courses of action would be satisfactory to the Agency. One would include a second cleaning and a second set of pressure tests with subsequent Hnu testing. If a second set of pressure testing revealed no leaks and Hnu tests show no readings above background, the Agency will, except for compliance with City of Chicago tank abandonment regulations, deem your work under the Notice pursuant to Section 4(q) of the Act to have been satisfactorily completed.

The second course of action would be to document that the soil beneath Tanks U-3, U-8, U-10, U-11, U-12, U-14 and U-50 is not contaminated. This would be accomplished by obtaining a sample of soil immediately adjacent to each tank. The sample should be collected as close to the tank center as possible and be withdrawn from a depth corresponding to the elevation of each tank bottom. The soil samples would then be analyzed for those substances which had been contained in each respective tank. A plan outlining this testing and sampling would be submitted to the Agency for approval, and implementation of the plan would start after Agency approval. Depending upon the outcome of the soil testing, future work could be required to include, but not be limited to, tank removal, soil clean-up and groundwater monitoring.

We request that you respond to this letter in writing by November 10, 1987. If you have any questions you may feel free to contact me at the above address and telephone number.

Sincerely,

James A. Janssen, P.E.
Manager, Immediate Removal Unit
Division of Land Pollution Control

JAJ:bh:1525B

cc: Division File
Northern Region
Tim Greetis
Donald Gimbel

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY MEMORANDUM

DATE: November 23, 1988

TO: Division File

FROM: Mitch Levin ML LPC/FOS Maywood

SUBJECT: 0316005445/Cook County
Chicago/Valspar
Superfund/Technical Reports

Following is a summary of activities observed for the subject site. The contructor is Kinsey Consulting.

Friday, November 4, 1988

I met the following personnel at the site at 12:00 PM.

Kert Gardenour	Harza Environmental Services
Steve Zebovitz	Harza Environmental Services
Jim Kinsey	Kinsey Consulting, Inc.
Leslie Courts	Kinsey Consulting, Inc.
David Pyles	Earth Sciences, Inc.
Mark Prueher	Wisconsin Test Drilling, Inc.

A skid-mounted drill rig was used to take soil boring samples. Table 1 contains field information about the soil borings. Figure 1 shows the sample locations. Workers had finished drilling at X101 when I left the site at 5:00 PM.

Saturday, November 5, 1988

I arrived on site at 8:30 AM. Personnel are represented as before with the exception of Steve Zebovitz. Each sampling location was designed to detect contamination from a specific tank, and was positioned as deep as the bottom of the tank and as close to the center of the tank as possible. However, all soil samples were very moist and appeared to be saturated with fuel oil. The underground tanks had shifted somewhat from the locations in Figure 1, and workers had a difficult time finding spaces between the tanks to drill, particularly at X103, X104 and X105. Sampling was completed by 4:00 PM. Soil samples will be analyzed for BNAs, VOCs, and metals. The samples were sealed in a cooler with ice and transported to Gulf Coast Laboratories. Proper chain-of-custody procedures were used.

ML:bj:074J

Attachments

cc: Maywood Region
Steve Gobelman

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Table 1

Valspar Soil Samples

Sample Location	Underground Storage Tank Represented	Depth of Boring (ft)	HNU (ppm)	Date and Time
X101	U-8	12 - 13.5	30-50	11/4/88 3:05 PM
X102	U-14	12.5 - 14	5-10	11/5/88 10:55 AM
X103	U-12	12.5 - 14	5-10	11/5/88 12:45 PM
X104	U-10	11.5 - 13	1-2	11/5/88 2:30 PM
X105	U-11	11.5 - 13	5-10	11/5/88 3:45 PM
X106	U-3	12 - 13.5	20-30	11/5/88 8:40 AM

ML:bj:075J

SOUTH KILBOURNE AVENUE SITE
CHICAGO, ILLINOIS

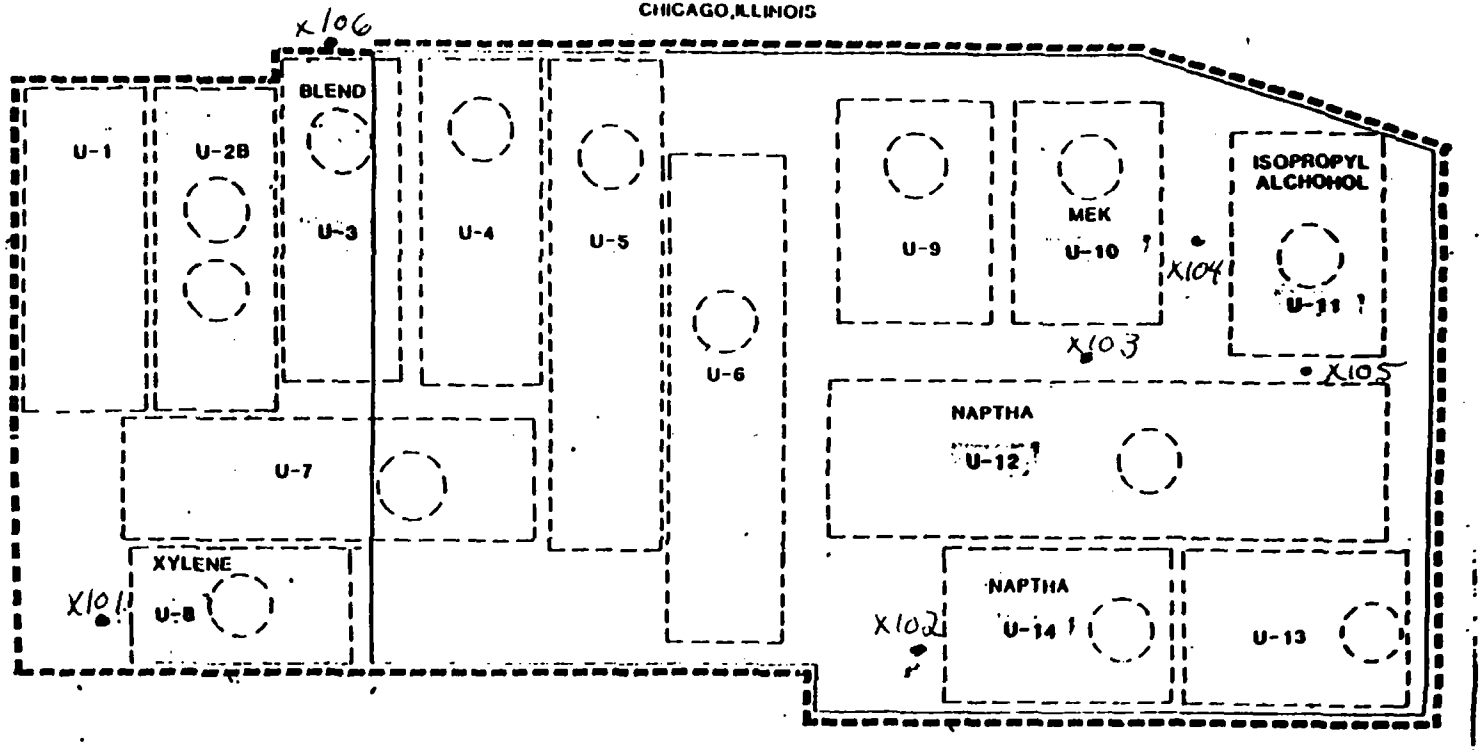

FIGURE 1
TANK LOCATION MAP
and sampling locations.

Piping

J10

GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815) 723-

ANALYTICAL REPORT

TO: Environmental Protection Agncy
2200 Churchill Road
Springfield IL 62706

ATTN: Mrs. Susan Doubet

DATE: 12/28/88

RE: Valspar Soil Sample X101

Sample Date: 11/04/88
Date Received: 11/07/88
GCL Number: 143935

GCL #	PARAMETERS	ANALYST	RESULTS		
143935	Aluminum, Total	wac	731	mg/kg	d
143935	Antimony, Total	jb	< 1.78	mg/kg	d
143935	Arsenic, Total	rm	< 0.89	mg/kg	d
143935	Barium, Total	wac	16.9	mg/kg	d
14 35	Beryllium, Total	wac	< 0.432	mg/kg	d
143935	Cadmium, Total	wac	< 0.865	mg/kg	d
143935	Calcium, Total	wac	2780	mg/kg	d
143935	Chromium, Total	wac	6.94	mg/kg	d
143935	Cobalt, Total	wac	< 4.32	mg/kg	d
143935	Copper, Total	wac	4.97	mg/kg	d
143935	Iron, Total	wac	2530	mg/kg	d
143935	Lead, Total	wac	29.1	mg/kg	d
143935	Magnesium, Total	wac	1100	mg/kg	d
143935	Manganese, Total	wac	20.8	mg/kg	d
143935	Mercury, Total	nk	< 0.11	mg/kg	d
143935	Nickel, Total	wac	< 4.32	mg/kg	d
143935	Potassium, Total	wac	160	mg/kg	d
14 35	Selenium, Total	rm	< 0.89	mg/kg	d
143935	Silver, Total	wac	< 2.16	mg/kg	d

J11

GULF COAST LABORATORIES, INC.
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ANALYTICAL REPORT

TO: Environmental Protection Agncy
2200 Churchill Road
Springfield IL 62706

DATE: 12/28/88

RE: Valspar Soil Sample X101

ATTN: Mrs. Susan Doubet

Sample Date: 11/04/88
Date Received: 11/07/88
GCL Number: 143935

GCL #	PARAMETERS	ANALYST		RESULTS		
143935	Sodium, Total	wac		50.0	mg/kg	
143935	Solids, Total	cls		86.6	%	
143935	Thallium, Total	jmf	<	0.89	mg/kg	
143935	Vanadium, Total	wac		2.64	mg/kg	
14	35 Zinc, Total	wac		75.4	mg/kg	

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ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X101

Sample Date: 11/04/88
Date Received: 11/07/88
GCL#: 143935

VOLATILE COMPOUNDS	RESULT	DETECTION LIMIT		
Chloromethane	BDL	10	ug/kg	U
Bromomethane	BDL	10	ug/kg	U
Vinyl Chloride	BDL	10	ug/kg	U
Chloroethane	BDL	10	ug/kg	U
Methylene Chloride	15	5	ug/kg	B
Acetone	30	10	ug/kg	B
Carbon Disulfide	BDL	5	ug/kg	U
1,1-Dichloroethene	BDL	5	ug/kg	U
1,1-Dichloroethane	BDL	5	ug/kg	U
1,2-Dichloroethene (total)	BDL	5	ug/kg	U
Chloroform	BDL	5	ug/kg	U
1,2-Dichloroethane	BDL	5	ug/kg	U
2-Butanone	BDL	10	ug/kg	U
1,1,1-Trichloroethane	3	5	ug/kg	J B
Carbon Tetrachloride	BDL	5	ug/kg	U
Vinyl Acetate	BDL	10	ug/kg	U
Bromodichloromethane	BDL	5	ug/kg	U

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2417 Bond St., University Park, Illinois 60466
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ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X101

Sample Date: 11/04/88
Date Received: 11/07/88
GCL#: 143935

VOLATILE COMPOUNDS	RESULT	DETECTION LIMIT		
1,2-Dichloropropane	BDL	5	ug/kg	U
Cis-1,3-Dichloropropene	BDL	5	ug/kg	U
Trichloroethene	BDL	5	ug/kg	U
Dibromochloromethane	BDL	5	ug/kg	U
1,1,2-Trichloroethane	BDL	5	ug/kg	U
Benzene	BDL	5	ug/kg	U
Trans-1,3-Dichloropropene	BDL	5	ug/kg	U
Bromoform	BDL	5	ug/kg	U
4-Methyl-2-Pentanone	BDL	10	ug/kg	U
2-Hexanone	BDL	10	ug/kg	U
Tetrachloroethene	BDL	5	ug/kg	U
1,1,2,2-Tetrachloroethane	BDL	5	ug/kg	U
Toluene	BDL	5	ug/kg	U
Chlorobenzene	BDL	5	ug/kg	U
Ethylbenzene	BDL	5	ug/kg	U
Styrene	BDL	5	ug/kg	U
Xylene	BDL	5	ug/kg	U

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ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X101

Sample Date: 11/04/88
Date Received: 11/07/88
GCL#: 143935

TENTATIVELY IDENTIFIED COMPOUNDS

Nine (9) Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any priority pollutants, surrogates or internal standards.

VOLATILE COMPOUND	RETENTION TIME	ESTIMATED CONCENTRATION		
Unknown	21.70	22	ug/kg	J
Unknown	22.05	120	ug/kg	J
Unknown Hydrocarbon C8H16	23.09	12	ug/kg	J
Unknown Hydrocarbon C9H18	26.07	42	ug/kg	J
Unknown	26.85	17	ug/kg	J
Unknown Hydrocarbon C9H18	27.50	50	ug/kg	J
Unknown	29.40	43	ug/kg	J
Unknown	30.29	96	ug/kg	J
Unknown	32.18	100	ug/kg	J

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ANALYTICAL REPORT

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2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X101

Sample Date: 11/04/88
Date Received: 11/07/88
GCL#: 143935

SEMIVOLATILE COMPOUNDS	RESULT	DETECTION LIMIT		
Phenol	BDL	330	ug/kg	U
bis(-2-Chloroethyl)Ether	BDL	330	ug/kg	U
2-Chlorophenol	BDL	330	ug/kg	U
1,3-Dichlorobenzene	BDL	330	ug/kg	U
1,4-Dichlorobenzene	BDL	330	ug/kg	U
Benzyl Alcohol	BDL	330	ug/kg	U
1,2-Dichlorobenzene	BDL	330	ug/kg	U
2-Methylphenol	BDL	330	ug/kg	U
bis(2-chloroisopropyl)Ether	BDL	330	ug/kg	U
4-Methylphenol	BDL	330	ug/kg	U
N-Nitroso-Di-n-Propylamine	BDL	330	ug/kg	U
Hexachloroethane	BDL	330	ug/kg	U
Nitrobenzene	BDL	330	ug/kg	U
Isophorone	BDL	330	ug/kg	U
2-Nitrophenol	BDL	330	ug/kg	U
2,4-Dimethylphenol	BDL	330	ug/kg	U
Benzoic Acid	BDL	1600	ug/kg	U

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ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X101

Sample Date: 11/04/88
Date Received: 11/07/88
GCL#: 143935

SEMIVOLATILE COMPOUNDS	RESULT	DETECTION LIMIT		
bis(-2-Chloroethoxy)Methane	BDL	330	ug/kg	U
2,4-Dichlorophenol	BDL	330	ug/kg	U
1,2,4-Trichlorobenzene	BDL	330	ug/kg	U
Naphthalene	110	330	ug/kg	J
4-Chloroaniline	BDL	330	ug/kg	U
Hexachlorobutadiene	BDL	330	ug/kg	U
4-Chloro-3-Methylphenol	BDL	330	ug/kg	U
2-Methylnaphthalene	120	330	ug/kg	J
Hexachlorocyclopentadiene	BDL	330	ug/kg	U
2,4,6-Trichlorophenol	BDL	330	ug/kg	U
2,4,5-Trichlorophenol	BDL	1600	ug/kg	U
2-Chloronaphthalene	BDL	330	ug/kg	U
2-Nitroaniline	BDL	1600	ug/kg	U
Dimethyl Phthalate	BDL	330	ug/kg	U
Acenaphthylene	BDL	330	ug/kg	U
2,6-Dinitrotoluene	BDL	330	ug/kg	U
3-Nitroaniline	BDL	1600	ug/kg	U

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ANALYTICAL REPORT

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2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X101

Sample Date: 11/04/88
Date Received: 11/07/88
GCL#: 143935

SEMIVOLATILE COMPOUNDS	RESULT	DETECTION LIMIT		
Acenaphthene	BDL	330	ug/kg	U
2,4-Dinitrophenol	BDL	1600	ug/kg	U
4-Nitrophenol	BDL	1600	ug/kg	U
Dibenzofuran	44	330	ug/kg	J
2,4-Dinitrotoluene	BDL	330	ug/kg	U
Diethylphthalate	BDL	330	ug/kg	U
4-Chlorophenyl-phenylether	BDL	330	ug/kg	U
Fluorene	BDL	330	ug/kg	U
4-Nitroaniline	BDL	1600	ug/kg	U
4,6-Dinitro-2-Methylphenol	BDL	1600	ug/kg	U
N-Nitrosodiphenylamine (1)	BDL	330	ug/kg	U
4-Bromophenyl-phenylether	BDL	330	ug/kg	U
Hexachlorobenzene	BDL	330	ug/kg	U
Pentachlorophenol	BDL	1600	ug/kg	U
Phenanthrene	230	330	ug/kg	J
Anthracene	43	330	ug/kg	J
Di-n-Butylphthalate	BDL	330	ug/kg	U

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ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X101

Sample Date: 11/04/88
Date Received: 11/07/88
GCL#: 143935

SEMIVOLATILE COMPOUNDS	RESULT	DETECTION LIMIT		
Fluoranthene	230	330	ug/kg	J
Pyrene	85	330	ug/kg	J
Butylbenzylphthalate	BDL	330	ug/kg	U
3,3'-Dichlorobenzidine	BDL	660	ug/kg	U
Benzo(a)Anthracene	BDL	330	ug/kg	U
Chrysene	BDL	330	ug/kg	U
bis(2-Ethylhexyl)Phthalate	290	330	ug/kg	J B
Di-n-Octylphthalate	BDL	330	ug/kg	U
Benzo(b)Fluoranthene	BDL	330	ug/kg	U
Benzo(k)Fluoranthene	BDL	330	ug/kg	U
Benzo(a)Pyrene	BDL	330	ug/kg	U
Indeno(1,2,3-cd)Pyrene	BDL	330	ug/kg	U
Dibenz(a,h)Anthracene	BDL	330	ug/kg	U
Benzo(g,h,i)Perylene	BDL	330	ug/kg	U

(1) Cannot be separated from diphenylamine

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ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X101

Sample Date: 11/04/88
Date Received: 11/07/88
GCL#: 143935

TENTATIVELY IDENTIFIED COMPOUNDS

Twenty (20) Semivolatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any priority pollutants, surrogates or internal standards.

SEMIVOLATILE COMPOUND	RETENTION TIME	ESTIMATED CONCENTRATION		
Unknown	6.40	1400	ug/kg	J A
Unknown	14.07	510	ug/kg	J
Unknown	14.87	430	ug/kg	J
Unknown Hydrocarbon	15.28	700	ug/kg	J
Unknown	15.85	670	ug/kg	J
Unknown Hydrocarbon	16.03	420	ug/kg	J
Unknown	16.44	1100	ug/kg	J
Unknown	17.01	590	ug/kg	J
Unknown Aromatic Hydrocarbon	17.40	510	ug/kg	J
Substituted Indene	17.65	700	ug/kg	J

J20

GULF COAST LABORATORIES, INC.
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ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X101

Sample Date: 11/04/88
Date Received: 11/07/88
GCL#: 143935

TENTATIVELY IDENTIFIED COMPOUNDS

SEMIVOLATILE COMPOUND	RETENTION TIME	ESTIMATED CONCENTRATION		
Unknown	17.85	1000	ug/kg	J
Substituted Naphthalene	19.10	750	ug/kg	J
Substituted Naphthalene	19.36	870	ug/kg	J
Unknown	19.67	520	ug/kg	J
Unknown Hydrocarbon	19.81	550	ug/kg	J
Unknown	28.33	1300	ug/kg	J
Unknown	28.66	4300	ug/kg	J
Unknown	29.30	890	ug/kg	J
Unknown	30.24	700	ug/kg	J
Unknown Aromatic Hydrocarbon	30.79	1800	ug/kg	J

J21

GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815) 723-

ANALYTICAL REPORT

TO: Environmental Protection Agncy
2200 Churchill Road
Springfield IL 62706

ATTN: Mrs. Susan Doubet

DATE: 12/28/88

RE: Valspar Soil Sample X102

Sample Date: 11/05/88
Date Received: 11/07/88
GCL Number: 143936

GCL #	PARAMETERS	ANALYST	RESULTS		
143936	Aluminum, Total	wac	795	mg/kg	d
143936	Antimony, Total	jb	< 1.49	mg/kg	d
143936	Arsenic, Total	rm	< 0.89	mg/kg	d
143936	Barium, Total	wac	122	mg/kg	d
14 36	Beryllium, Total	wac	< 0.461	mg/kg	
143936	Cadmium, Total	wac	1.59	mg/kg	d
143936	Calcium, Total	wac	5250	mg/kg	d
143936	Chromium, Total	wac	26.6	mg/kg	d
143936	Cobalt, Total	wac	< 4.61	mg/kg	d
143936	Copper, Total	wac	11.0	mg/kg	d
143936	Iron, Total	wac	4460	mg/kg	d
143936	Lead, Total	wac	256	mg/kg	d
143936	Magnesium, Total	wac	2300	mg/kg	d
143936	Manganese, Total	wac	47.8	mg/kg	d
143936	Mercury, Total	nk	0.17	mg/kg	d
143936	Nickel, Total	wac	< 4.61	mg/kg	d
143936	Potassium, Total	wac	170	mg/kg	d
1 36	Selenium, Total	rm	< 0.89	mg/kg	
143936	Silver, Total	wac	< 2.30	mg/kg	d

GULF COAST LABORATORIES, INC.
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ANALYTICAL REPORT

TO: Environmental Protection Agncy
2200 Churchill Road
Springfield IL 62706

DATE: 12/28/88

RE: Valspar Soil Sample X102

ATTN: Mrs. Susan Doubet

Sample Date: 11/05/88
Date Received: 11/07/88
GCL Number: 143936

GCL #	PARAMETERS	ANALYST	RESULTS		
143936	Sodium, Total	wac	72.9	mg/kg	d
143936	Solids, Total	cls	83.9	%	
143936	Thallium, Total	jmf	1.47	mg/kg	d
143936	Vanadium, Total	wac	2.38	mg/kg	d
14 36	Zinc, Total	wac	168	mg/kg	d

GULF COAST LABORATORIES, INC.
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ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

DATE: December 6, 1988

RE: Valspar Soil Sample X102

ATTN: Mrs. Susan Doubet

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143936

VOLATILE COMPOUNDS	RESULT	DETECTION LIMIT		
Chloromethane	BDL	50	ug/kg	U
Bromomethane	BDL	50	ug/kg	U
Vinyl Chloride	BDL	50	ug/kg	U
Chloroethane	BDL	50	ug/kg	U
Methylene Chloride	31	25	ug/kg	B
Acetone	100	50	ug/kg	B
Carbon Disulfide	BDL	25	ug/kg	U
1,1-Dichloroethene	BDL	25	ug/kg	U
1,1-Dichloroethane	BDL	25	ug/kg	U
1,2-Dichloroethene (total)	BDL	25	ug/kg	U
Chloroform	BDL	25	ug/kg	U
1,2-Dichloroethane	BDL	25	ug/kg	U
2-Butanone	BDL	50	ug/kg	U
1,1,1-Trichloroethane	BDL	25	ug/kg	U
Carbon Tetrachloride	BDL	25	ug/kg	U
Vinyl Acetate	BDL	50	ug/kg	U
Bromodichloromethane	BDL	25	ug/kg	U

GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815) 723-7

ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X102

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143936

VOLATILE COMPOUNDS	RESULT	DETECTION LIMIT		
1,2-Dichloropropane	BDL	25	ug/kg	U
Cis-1,3-Dichloropropene	BDL	25	ug/kg	U
Trichloroethene	BDL	25	ug/kg	U
Dibromochloromethane	BDL	25	ug/kg	U
1,1,2-Trichloroethane	BDL	25	ug/kg	U
Benzene	BDL	25	ug/kg	U
Trans-1,3-Dichloropropene	BDL	25	ug/kg	U
Bromoform	BDL	25	ug/kg	U
4-Methyl-2-Pentanone	BDL	50	ug/kg	U
2-Hexanone	BDL	50	ug/kg	U
Tetrachloroethene	BDL	25	ug/kg	U
1,1,2,2-Tetrachloroethane	BDL	25	ug/kg	U
Toluene	BDL	25	ug/kg	U
Chlorobenzene	BDL	25	ug/kg	U
Ethylbenzene	130	25	ug/kg	
Styrene	BDL	25	ug/kg	U
Xylene	2700	25	ug/kg	e

GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815) 72

ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X102

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143936

TENTATIVELY IDENTIFIED COMPOUNDS

Ten (10) Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any priority pollutants, surrogates or internal standards.

VOLATILE COMPOUND	RETENTION TIME	ESTIMATED CONCENTRATION		
Unknown Hydrocarbon	19.69	14000	ug/kg	J
Unknown Hydrocarbon	21.70	15000	ug/kg	J
Unknown Hydrocarbon	23.13	8700	ug/kg	J
Unknown Hydrocarbon	24.45	19000	ug/kg	J
Unknown Hydrocarbon C8H16	24.87	9100	ug/kg	J
Unknown Hydrocarbon	26.08	28000	ug/kg	J
Unknown Hydrocarbon	26.85	15000	ug/kg	J
Unknown Hydrocarbon	27.51	22000	ug/kg	J
Unknown Hydrocarbon	28.29	22000	ug/kg	J
Unknown Hydrocarbon	30.26	48000	ug/kg	J

GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
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ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X102

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143936 DL

VOLATILE COMPOUNDS	RESULT	DETECTION LIMIT
Xylene	480	250 ug/kg D J

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GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815) 72

ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X102

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143936

SEMIVOLATILE COMPOUNDS	RESULT	DETECTION LIMIT		
Phenol	BDL	330	ug/kg	U
bis(-2-Chloroethyl)Ether	BDL	330	ug/kg	U
2-Chlorophenol	BDL	330	ug/kg	U
1,3-Dichlorobenzene	BDL	330	ug/kg	U
1,4-Dichlorobenzene	BDL	330	ug/kg	U
Benzyl Alcohol	BDL	330	ug/kg	U
1,2-Dichlorobenzene	BDL	330	ug/kg	U
2-Methylphenol	BDL	330	ug/kg	U
bis(2-chloroisopropyl)Ether	BDL	330	ug/kg	U
4-Methylphenol	BDL	330	ug/kg	U
N-Nitroso-Di-n-Propylamine	BDL	330	ug/kg	U
Hexachloroethane	BDL	330	ug/kg	U
Nitrobenzene	BDL	330	ug/kg	U
Isophorone	BDL	330	ug/kg	U
2-Nitrophenol	BDL	330	ug/kg	U
2,4-Dimethylphenol	BDL	330	ug/kg	U
Benzoic Acid	BDL	1600	ug/kg	U

GULF COAST LABORATORIES, INC.
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ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X102

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143936

SEMIVOLATILE COMPOUNDS	RESULT	DETECTION LIMIT		
bis(-2-Chloroethoxy)Methane	BDL	330	ug/kg	U
2,4-Dichlorophenol	BDL	330	ug/kg	U
1,2,4-Trichlorobenzene	BDL	330	ug/kg	U
Naphthalene	BDL	330	ug/kg	U
4-Chloroaniline	BDL	330	ug/kg	U
Hexachlorobutadiene	BDL	330	ug/kg	U
4-Chloro-3-Methylphenol	BDL	330	ug/kg	U
2-Methylnaphthalene	300	330	ug/kg	J
Hexachlorocyclopentadiene	BDL	330	ug/kg	U
2,4,6-Trichlorophenol	BDL	330	ug/kg	U
2,4,5-Trichlorophenol	BDL	1600	ug/kg	U
2-Chloronaphthalene	BDL	330	ug/kg	U
2-Nitroaniline	BDL	1600	ug/kg	U
Dimethyl Phthalate	BDL	330	ug/kg	U
Acenaphthylene	BDL	330	ug/kg	U
2,6-Dinitrotoluene	BDL	330	ug/kg	U
3-Nitroaniline	BDL	1600	ug/kg	U

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ANALYTICAL REPORT

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2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X102

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143936

SEMIVOLATILE COMPOUNDS	RESULT	DETECTION LIMIT		
Acenaphthene	BDL	330	ug/kg	U
2,4-Dinitrophenol	BDL	1600	ug/kg	U
4-Nitrophenol	BDL	1600	ug/kg	U
Dibenzofuran	BDL	330	ug/kg	U
2,4-Dinitrotoluene	BDL	330	ug/kg	U
Diethylphthalate	BDL	330	ug/kg	U
4-Chlorophenyl-phenylether	BDL	330	ug/kg	U
Fluorene	BDL	330	ug/kg	U
4-Nitroaniline	BDL	1600	ug/kg	U
4,6-Dinitro-2-Methylphenol	BDL	1600	ug/kg	U
N-Nitrosodiphenylamine (1)	BDL	330	ug/kg	U
4-Bromophenyl-phenylether	BDL	330	ug/kg	U
Hexachlorobenzene	BDL	330	ug/kg	U
Pentachlorophenol	BDL	1600	ug/kg	U
Phenanthrene	110	330	ug/kg	J
Anthracene	BDL	330	ug/kg	U
Di-n-Butylphthalate	BDL	330	ug/kg	U

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2200 Churchill Road
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ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X102

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143936

SEMIVOLATILE COMPOUNDS	RESULT	DETECTION LIMIT		
Fluoranthene	94	330	ug/kg	J
Pyrene	110	330	ug/kg	J
Butylbenzylphthalate	BDL	330	ug/kg	U
3,3'-Dichlorobenzidine	BDL	660	ug/kg	U
Benzo(a)Anthracene	77	330	ug/kg	J
Chrysene	72	330	ug/kg	J
bis(2-Ethylhexyl)Phthalate	260	330	ug/kg	J B
Di-n-Octylphthalate	BDL	330	ug/kg	U
Benzo(b)Fluoranthene	BDL	330	ug/kg	U
Benzo(k)Fluoranthene	BDL	330	ug/kg	U
Benzo(a)Pyrene	BDL	330	ug/kg	U
Indeno(1,2,3-cd)Pyrene	BDL	330	ug/kg	U
Dibenz(a,h)Anthracene	BDL	330	ug/kg	U
Benzo(g,h,i)Perylene	BDL	330	ug/kg	U

(1) Cannot be separated from diphenylamine

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GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815) 723-

ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X102

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143936

TENTATIVELY IDENTIFIED COMPOUNDS

Twenty (20) Semivolatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any priority pollutants, surrogates or internal standards.

SEMIVOLATILE COMPOUND	RETENTION TIME	ESTIMATED CONCENTRATION		
Unknown Hydrocarbon	9.03	5100	ug/kg	J
Unknown	9.44	2700	ug/kg	J
Unknown Hydrocarbon	9.56	3400	ug/kg	J
Unknown	9.91	2900	ug/kg	J
Unknown	10.20	6700	ug/kg	J
Unknown + ISTD	10.87	4600	ug/kg	J
Unknown Hydrocarbon	11.18	13000	ug/kg	J
Unknown	11.44	5000	ug/kg	J
Unknown	11.99	5700	ug/kg	J
Unknown	12.48	4200	ug/kg	J

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ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X102

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143936

TENTATIVELY IDENTIFIED COMPOUNDS

SEMIVOLATILE COMPOUND	RETENTION TIME	ESTIMATED CONCENTRATION		
Unknown	12.67	3000	ug/kg	J
Unknown	12.93	2800	ug/kg	J
Unknown	13.32	6000	ug/kg	J
Unknown Hydrocarbon	13.56	2400	ug/kg	J
Unknown	13.67	3300	ug/kg	J
Unknown	14.14	4700	ug/kg	J
Unknown + ISTD	14.83	5300	ug/kg	J
Unknown Hydrocarbon	15.34	4300	ug/kg	J
Unknown	15.87	2400	ug/kg	J
Unknown	16.45	2600	ug/kg	J

GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
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ANALYTICAL REPORT

TO: Environmental Protection Agncy
2200 Churchill Road
Springfield IL 62706

ATTN: Mrs. Susan Doubet

DATE: 12/28/88

RE: Valspar Soil Sample X103

Sample Date: 11/05/88
Date Received: 11/07/88
GCL Number: 143937

GCL #	PARAMETERS	ANALYST		RESULTS		
143937	Aluminum, Total	wac		599	mg/kg	d
143937	Antimony, Total	jb	<	1.55	mg/kg	d
143937	Arsenic, Total	rm	<	0.93	mg/kg	d
143937	Barium, Total	wac	<	11.6	mg/kg	d
14 37	Beryllium, Total	wac	<	0.465	mg/kg	
143937	Cadmium, Total	wac	<	0.930	mg/kg	u
143937	Calcium, Total	wac		335	mg/kg	d
143937	Chromium, Total	wac		6.18	mg/kg	d
143937	Cobalt, Total	wac	<	4.65	mg/kg	d
143937	Copper, Total	wac	<	4.65	mg/kg	d
143937	Iron, Total	wac		1340	mg/kg	d
143937	Lead, Total	jb		10.05	mg/kg	d
143937	Magnesium, Total	wac		205	mg/kg	d
143937	Manganese, Total	wac		11.8	mg/kg	d
143937	Mercury, Total	nk	<	0.12	mg/kg	d
143937	Nickel, Total	wac	<	4.65	mg/kg	d
143937	Potassium, Total	wac		131	mg/kg	d
1 37	Selenium, Total	rm	<	0.93	mg/kg	
143937	Silver, Total	wac	<	2.32	mg/kg	d

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2417 Bond St., University Park, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815) 723-7

ANALYTICAL REPORT

TO: Environmental Protection Agncy
2200 Churchill Road
Springfield IL 62706

ATTN: Mrs. Susan Doubet

DATE: 12/28/88

RE: Valspar Soil Sample X103

Sample Date: 11/05/88
Date Received: 11/07/88
GCL Number: 143937

GCL #	PARAMETERS	ANALYST		RESULTS		
143937	Sodium, Total	wac		58.1	mg/kg	d
143937	Solids, Total	cls		83.5	%	
143937	Thallium, Total	jmf		1.56	mg/kg	d
143937	Vanadium, Total	wac	<	2.32	mg/kg	d
143937	Zinc, Total	wac		15.5	mg/kg	d*

GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815) 72

ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X103

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143937

VOLATILE COMPOUNDS	RESULT	DETECTION LIMIT		
Chloromethane	BDL	5000	ug/kg	U
Bromomethane	BDL	5000	ug/kg	U
Vinyl Chloride	BDL	5000	ug/kg	U
Chloroethane	BDL	5000	ug/kg	U
Methylene Chloride	20000	2500	ug/kg	
Acetone	11000	5000	ug/kg	B
Carbon Disulfide	BDL	2500	ug/kg	U
1,1-Dichloroethene	BDL	2500	ug/kg	U
1,1-Dichloroethane	BDL	2500	ug/kg	U
1,2-Dichloroethene (total)	BDL	2500	ug/kg	U
Chloroform	BDL	2500	ug/kg	U
1,2-Dichloroethane	BDL	2500	ug/kg	U
2-Butanone	1700	5000	ug/kg	J B
1,1,1-Trichloroethane	BDL	2500	ug/kg	U
Carbon Tetrachloride	BDL	2500	ug/kg	U
Vinyl Acetate	BDL	5000	ug/kg	U
Bromodichloromethane	BDL	2500	ug/kg	U

GULF COAST LABORATORIES, INC.
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ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X103

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143937

VOLATILE COMPOUNDS	RESULT	DETECTION LIMIT		
1,2-Dichloropropane	BDL	2500	ug/kg	U
Cis-1,3-Dichloropropene	BDL	2500	ug/kg	U
Trichloroethene	BDL	2500	ug/kg	U
Dibromochloromethane	BDL	2500	ug/kg	U
1,1,2-Trichloroethane	BDL	2500	ug/kg	U
Benzene	BDL	2500	ug/kg	U
Trans-1,3-Dichloropropene	BDL	2500	ug/kg	U
Bromoform	BDL	2500	ug/kg	U
4-Methyl-2-Pentanone	BDL	5000	ug/kg	U
2-Hexanone	BDL	5000	ug/kg	U
Tetrachloroethene	BDL	2500	ug/kg	U
1,1,2,2-Tetrachloroethane	BDL	2500	ug/kg	U
Toluene	BDL	2500	ug/kg	U
Chlorobenzene	BDL	2500	ug/kg	U
Ethylbenzene	1300	2500	ug/kg	J
Styrene	BDL	2500	ug/kg	U
Xylene	BDL	2500	ug/kg	U

GULF COAST LABORATORIES, INC.
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ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
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ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X103

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143937

TENTATIVELY IDENTIFIED COMPOUNDS

Ten (10) Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any priority pollutants, surrogates or internal standards.

VOLATILE COMPOUND	RETENTION TIME	ESTIMATED CONCENTRATION		
1,1,2-Trichlorotrifluoro-Et.	8.18	23000	ug/kg	J
Methylcyclohexane	15.84	6200	ug/kg	J
Unknown Hydrocarbon	19.91	9600	ug/kg	J
Unknown	21.75	12000	ug/kg	J
Unknown Hydrocarbon	22.46	15000	ug/kg	J
Dimethyloctane	23.01	15000	ug/kg	J
Unknown C8H18	23.18	13000	ug/kg	J
Unknown	24.16	16000	ug/kg	J
Unknown	24.97	15000	ug/kg	J
Unknown C11H24	25.73	22000	ug/kg	J

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GULF COAST LABORATORIES, INC.
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ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X103

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143937

SEMIVOLATILE COMPOUNDS	RESULT	DETECTION LIMIT		
Phenol	BDL	330	ug/kg	U
bis(-2-Chloroethyl)Ether	BDL	330	ug/kg	U
2-Chlorophenol	BDL	330	ug/kg	U
1,3-Dichlorobenzene	BDL	330	ug/kg	U
1,4-Dichlorobenzene	BDL	330	ug/kg	U
Benzyl Alcohol	BDL	330	ug/kg	U
1,2-Dichlorobenzene	BDL	330	ug/kg	U
2-Methylphenol	BDL	330	ug/kg	U
bis(2-chloroisopropyl)Ether	BDL	330	ug/kg	U
4-Methylphenol	BDL	330	ug/kg	U
N-Nitroso-Di-n-Propylamine	BDL	330	ug/kg	U
Hexachloroethane	BDL	330	ug/kg	U
Nitrobenzene	BDL	330	ug/kg	U
Isophorone	BDL	330	ug/kg	U
2-Nitrophenol	BDL	330	ug/kg	U
2,4-Dimethylphenol	BDL	330	ug/kg	U
Benzoic Acid	BDL	1600	ug/kg	U

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ANALYTICAL REPORT

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2200 Churchill Road
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ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X103

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143937

SEMIVOLATILE COMPOUNDS	RESULT	DETECTION LIMIT		
bis(-2-Chloroethoxy)Methane	BDL	330	ug/kg	U
2,4-Dichlorophenol	BDL	330	ug/kg	U
1,2,4-Trichlorobenzene	BDL	330	ug/kg	U
Naphthalene	180	330	ug/kg	J
4-Chloroaniline	BDL	330	ug/kg	U
Hexachlorobutadiene	BDL	330	ug/kg	U
4-Chloro-3-Methylphenol	BDL	330	ug/kg	U
2-Methylnaphthalene	200	330	ug/kg	J
Hexachlorocyclopentadiene	BDL	330	ug/kg	U
2,4,6-Trichlorophenol	BDL	330	ug/kg	U
2,4,5-Trichlorophenol	BDL	1600	ug/kg	U
2-Chloronaphthalene	BDL	330	ug/kg	U
2-Nitroaniline	BDL	1600	ug/kg	U
Dimethyl Phthalate	BDL	330	ug/kg	U
Acenaphthylene	BDL	330	ug/kg	U
2,6-Dinitrotoluene	BDL	330	ug/kg	U
3-Nitroaniline	BDL	1600	ug/kg	U

GULF COAST LABORATORIES, INC.
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ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X103

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143937

SEMIVOLATILE COMPOUNDS	RESULT	DETECTION LIMIT		
Acenaphthene	BDL	330	ug/kg	U
2,4-Dinitrophenol	BDL	1600	ug/kg	U
4-Nitrophenol	BDL	1600	ug/kg	U
Dibenzofuran	BDL	330	ug/kg	U
2,4-Dinitrotoluene	BDL	330	ug/kg	U
Diethylphthalate	BDL	330	ug/kg	U
4-Chlorophenyl-phenylether	BDL	330	ug/kg	U
Fluorene	BDL	330	ug/kg	U
4-Nitroaniline	BDL	1600	ug/kg	U
4,6-Dinitro-2-Methylphenol	BDL	1600	ug/kg	U
N-Nitrosodiphenylamine (1)	BDL	330	ug/kg	U
4-Bromophenyl-phenylether	BDL	330	ug/kg	U
Hexachlorobenzene	BDL	330	ug/kg	U
Pentachlorophenol	BDL	1600	ug/kg	U
Phenanthrene	63	330	ug/kg	J
Anthracene	BDL	330	ug/kg	U
Di-n-Butylphthalate	56	330	ug/kg	J

GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
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ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X103

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143937

SEMIVOLATILE COMPOUNDS	RESULT	DETECTION LIMIT		
Fluoranthene	44	330	ug/kg	J
Pyrene	BDL	330	ug/kg	U
Butylbenzylphthalate	BDL	330	ug/kg	U
3,3'-Dichlorobenzidine	BDL	660	ug/kg	U
Benzo(a)Anthracene	BDL	330	ug/kg	U
Chrysene	BDL	330	ug/kg	U
bis(2-Ethylhexyl)Phthalate	450	330	ug/kg	B
Di-n-Octylphthalate	BDL	330	ug/kg	U
Benzo(b)Fluoranthene	BDL	330	ug/kg	U
Benzo(k)Fluoranthene	BDL	330	ug/kg	U
Benzo(a)Pyrene	BDL	330	ug/kg	U
Indeno(1,2,3-cd)Pyrene	BDL	330	ug/kg	U
Dibenz(a,h)Anthracene	BDL	330	ug/kg	U
Benzo(g,h,i)Perylene	BDL	330	ug/kg	U

(1) Cannot be separated from diphenylamine

GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815) 723-7

ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X103

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143937

TENTATIVELY IDENTIFIED COMPOUNDS

Twenty (20) Semivolatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any priority pollutants, surrogates or internal standards.

SEMIVOLATILE COMPOUND	RETENTION TIME	ESTIMATED CONCENTRATION		
Unknown	6.41	2300	ug/kg	J A
Unknown Hydrocarbon	9.02	2200	ug/kg	J
Unknown Hydrocarbon	9.55	2300	ug/kg	J
Substituted Benzene	10.42	3200	ug/kg	J
Unknown + ISTD	10.85	3300	ug/kg	J
Unknown Hydrocarbon	11.16	9100	ug/kg	J
Unknown Hydrocarbon	11.45	12000	ug/kg	J
Unknown Hydrocarbon	11.96	12000	ug/kg	J
Unknown Hydrocarbon	12.14	4000	ug/kg	J
Unknown Hydrocarbon	12.45	5700	ug/kg	J

GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
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ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X103

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143937

TENTATIVELY IDENTIFIED COMPOUNDS

SEMIVOLATILE COMPOUND	RETENTION TIME	ESTIMATED CONCENTRATION		
Unknown	12.92	2100	ug/kg	J
Unknown	13.30	3400	ug/kg	J
Unknown	13.47	2600	ug/kg	J
Unknown	13.65	2200	ug/kg	J
Unknown	13.75	2400	ug/kg	J
Unknown	14.12	4000	ug/kg	J
Unknown Hydrocarbon	14.39	4600	ug/kg	J
Unknown Hydrocarbon	14.45	3600	ug/kg	J
Unknown + ISTD	14.82	3200	ug/kg	J
Unknown Hydrocarbon	15.33	2600	ug/kg	J

GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815) 723

ANALYTICAL REPORT

TO: Environmental Protection Agncy
2200 Churchill Road
Springfield IL 62706

ATTN: Mrs. Susan Doubet

DATE: 12/28/88

RE: Valspar Soil Sample X104

Sample Date: 11/05/88
Date Received: 11/07/88
GCL Number: 143938

GCL #	PARAMETERS	ANALYST	RESULTS		
143938	Aluminum, Total	wac	590	mg/kg	d
143938	Antimony, Total	jb	< 1.83	mg/kg	d
143938	Arsenic, Total	rm	< 0.92	mg/kg	d
143938	Barium, Total	wac	< 12.1	mg/kg	d
1[illegible]38	Beryllium, Total	wac	< 0.486	mg/kg	[illegible]
143938	Cadmium, Total	wac	< 0.972	mg/kg	d
143938	Calcium, Total	wac	922	mg/kg	d
143938	Chromium, Total	wac	6.19	mg/kg	d
143938	Cobalt, Total	wac	< 4.86	mg/kg	d
143938	Copper, Total	wac	< 4.85	mg/kg	d
143938	Iron, Total	wac	1190	mg/kg	d
143938	Lead, Total	jb	2.08	mg/kg	d
143938	Magnesium, Total	wac	420	mg/kg	d
143938	Manganese, Total	wac	10.8	mg/kg	d
143938	Mercury, Total	nk	< 0.13	mg/kg	d
143938	Nickel, Total	wac	< 4.86	mg/kg	d
143938	Potassium, Total	wac	136	mg/kg	d
1[illegible]938	Selenium, Total	rm	< 0.92	mg/kg	[illegible]
143938	Silver, Total	wac	< 2.43	mg/kg	d

GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815) 723-7

ANALYTICAL REPORT

TO: Environmental Protection Agncy
2200 Churchill Road
Springfield IL 62706

ATTN: Mrs. Susan Doubet

DATE: 12/28/88

RE: Valspar Soil Sample X104

Sample Date: 11/05/88
Date Received: 11/07/88
GCL Number: 143938

GCL #	PARAMETERS	ANALYST		RESULTS		
143938	Sodium, Total	wac		48.7	mg/kg	d
143938	Solids, Total	cls		79.6	%	
143938	Thallium, Total	jmf	<	0.91	mg/kg	d
143938	Vanadium, Total	wac	<	2.43	mg/kg	d
1[illegible]38	Zinc, Total	wac		12.5	mg/kg	d*

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GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815) 723

ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X104

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143938

VOLATILE COMPOUNDS	RESULT	DETECTION LIMIT		
Chloromethane	BDL	100	ug/kg	U
Bromomethane	BDL	100	ug/kg	U
Vinyl Chloride	BDL	100	ug/kg	U
Chloroethane	BDL	100	ug/kg	U
Methylene Chloride	440	50	ug/kg	
Acetone	240	100	ug/kg	B
Carbon Disulfide	BDL	50	ug/kg	U
1,1-Dichloroethene	BDL	50	ug/kg	U
1,1-Dichloroethane	BDL	50	ug/kg	U
1,2-Dichloroethene (total)	BDL	50	ug/kg	U
Chloroform	BDL	50	ug/kg	U
1,2-Dichloroethane	BDL	50	ug/kg	U
2-Butanone	19	100	ug/kg	J B
1,1,1-Trichloroethane	BDL	50	ug/kg	U
Carbon Tetrachloride	BDL	50	ug/kg	U
Vinyl Acetate	BDL	100	ug/kg	U
Bromodichloromethane	BDL	50	ug/kg	U

GULF COAST LABORATORIES, INC.
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ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X104

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143938

VOLATILE COMPOUNDS	RESULT	DETECTION LIMIT		
1,2-Dichloropropane	BDL	50	ug/kg	U
Cis-1,3-Dichloropropene	BDL	50	ug/kg	U
Trichloroethene	BDL	50	ug/kg	U
Dibromochloromethane	BDL	50	ug/kg	U
1,1,2-Trichloroethane	BDL	50	ug/kg	U
Benzene	BDL	50	ug/kg	U
Trans-1,3-Dichloropropene	BDL	50	ug/kg	U
Bromoform	BDL	50	ug/kg	U
4-Methyl-2-Pentanone	BDL	100	ug/kg	U
2-Hexanone	BDL	100	ug/kg	U
Tetrachloroethene	BDL	50	ug/kg	U
1,1,2,2-Tetrachloroethane	BDL	50	ug/kg	U
Toluene	BDL	50	ug/kg	U
Chlorobenzene	BDL	50	ug/kg	U
Ethylbenzene	BDL	50	ug/kg	U
Styrene	BDL	50	ug/kg	U
Xylene	BDL	50	ug/kg	U

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ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X104

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143938

TENTATIVELY IDENTIFIED COMPOUNDS

Ten (10) Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any priority pollutants, surrogates or internal standards.

VOLATILE COMPOUND	RETENTION TIME	ESTIMATED CONCENTRATION		
Unknown Hydrocarbon	10.74	140	ug/kg	J
Unknown C9H18	22.42	220	ug/kg	J
Unknown	22.95	90	ug/kg	J
Unknown	23.20	81	ug/kg	J
Unknown C10H22	23.28	160	ug/kg	J
Unknown Hydrocarbon	24.13	240	ug/kg	J
Unknown C3H5C13	24.28	160	ug/kg	J
Unknown	24.99	130	ug/kg	J
Unknown Hydrocarbon	25.26	76	ug/kg	J
Unknown	25.67	200	ug/kg	J

GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
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ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X104

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143938

SEMIVOLATILE COMPOUNDS	RESULT	DETECTION LIMIT		
Phenol	BDL	330	ug/kg	U
bis(-2-Chloroethyl)Ether	BDL	330	ug/kg	U
2-Chlorophenol	BDL	330	ug/kg	U
1,3-Dichlorobenzene	BDL	330	ug/kg	U
1,4-Dichlorobenzene	BDL	330	ug/kg	U
Benzyl Alcohol	BDL	330	ug/kg	U
1,2-Dichlorobenzene	BDL	330	ug/kg	U
2-Methylphenol	BDL	330	ug/kg	U
bis(2-chloroisopropyl)Ether	BDL	330	ug/kg	U
4-Methylphenol	BDL	330	ug/kg	U
N-Nitroso-Di-n-Propylamine	BDL	330	ug/kg	U
Hexachloroethane	BDL	330	ug/kg	U
Nitrobenzene	BDL	330	ug/kg	U
Isophorone	BDL	330	ug/kg	U
2-Nitrophenol	BDL	330	ug/kg	U
2,4-Dimethylphenol	BDL	330	ug/kg	U
Benzoic Acid	BDL	1600	ug/kg	U

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GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815) 723-

ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X104

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143938

SEMIVOLATILE COMPOUNDS	RESULT	DETECTION LIMIT		
bis(-2-Chloroethoxy)Methane	BDL	330	ug/kg	U
2,4-Dichlorophenol	BDL	330	ug/kg	U
1,2,4-Trichlorobenzene	BDL	330	ug/kg	U
Naphthalene	BDL	330	ug/kg	U
4-Chloroaniline	BDL	330	ug/kg	U
Hexachlorobutadiene	BDL	330	ug/kg	U
4-Chloro-3-Methylphenol	BDL	330	ug/kg	U
2-Methylnaphthalene	BDL	330	ug/kg	U
Hexachlorocyclopentadiene	BDL	330	ug/kg	U
2,4,6-Trichlorophenol	BDL	330	ug/kg	U
2,4,5-Trichlorophenol	BDL	1600	ug/kg	U
2-Chloronaphthalene	BDL	330	ug/kg	U
2-Nitroaniline	BDL	1600	ug/kg	U
Dimethyl Phthalate	BDL	330	ug/kg	U
Acenaphthylene	BDL	330	ug/kg	U
2,6-Dinitrotoluene	BDL	330	ug/kg	U
3-Nitroaniline	BDL	1600	ug/kg	U

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GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815) 723

ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X104

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143938

SEMIVOLATILE COMPOUNDS	RESULT	DETECTION LIMIT		
Fluoranthene	BDL	330	ug/kg	U
Pyrene	BDL	330	ug/kg	U
Butylbenzylphthalate	BDL	330	ug/kg	U
3,3'-Dichlorobenzidine	BDL	660	ug/kg	U
Benzo(a)Anthracene	BDL	330	ug/kg	U
Chrysene	BDL	330	ug/kg	U
bis(2-Ethylhexyl)Phthalate	370	330	ug/kg	B
Di-n-Octylphthalate	BDL	330	ug/kg	U
Benzo(b)Fluoranthene	BDL	330	ug/kg	U
Benzo(k)Fluoranthene	BDL	330	ug/kg	U
Benzo(a)Pyrene	BDL	330	ug/kg	U
Indeno(1,2,3-cd)Pyrene	BDL	330	ug/kg	U
Dibenz(a,h)Anthracene	BDL	330	ug/kg	U
Benzo(g,h,i)Perylene	BDL	330	ug/kg	U

(1) Cannot be separated from diphenylamine

GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815) 723

ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X104

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143938

SEMIVOLATILE COMPOUNDS	RESULT	DETECTION LIMIT		
Acenaphthene	BDL	330	ug/kg	U
2,4-Dinitrophenol	BDL	1600	ug/kg	U
4-Nitrophenol	BDL	1600	ug/kg	U
Dibenzofuran	BDL	330	ug/kg	U
2,4-Dinitrotoluene	BDL	330	ug/kg	U
Diethylphthalate	BDL	330	ug/kg	U
4-Chlorophenyl-phenylether	BDL	330	ug/kg	U
Fluorene	BDL	330	ug/kg	U
4-Nitroaniline	BDL	1600	ug/kg	U
4,6-Dinitro-2-Methylphenol	BDL	1600	ug/kg	U
N-Nitrosodiphenylamine (1)	BDL	330	ug/kg	U
4-Bromophenyl-phenylether	BDL	330	ug/kg	U
Hexachlorobenzene	BDL	330	ug/kg	U
Pentachlorophenol	BDL	1600	ug/kg	U
Phenanthrene	BDL	330	ug/kg	U
Anthracene	BDL	330	ug/kg	U
Di-n-Butylphthalate	BDL	330	ug/kg	U

GULF COAST LABORATORIES, INC.
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ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X104

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143938

TENTATIVELY IDENTIFIED COMPOUNDS

Seven (7) Semivolatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any priority pollutants, surrogates or internal standards.

SEMIVOLATILE COMPOUND	RETENTION TIME	ESTIMATED CONCENTRATION		
Unknown	6.39	700	ug/kg	J A
Unknown Hydrocarbon	23.44	260	ug/kg	J
Hexadecanoic Acid	27.16	170	ug/kg	J
Unknown	28.49	1100	ug/kg	J B
Unknown	31.98	210	ug/kg	J
Unknown Acid Ester	32.29	170	ug/kg	J
Unknown	36.45	720	ug/kg	J B

GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815) 723

ANALYTICAL REPORT

TO: Environmental Protection Agncy
2200 Churchill Road
Springfield IL 62706

DATE: 12/28/88

RE: Valspar Soil Sample X105

ATTN: Mrs. Susan Doubet

Sample Date: 11/05/88
Date Received: 11/07/88
GCL Number: 143939

GCL #	PARAMETERS	ANALYST	RESULTS		
143939	Aluminum, Total	wac	527	mg/kg	d
143939	Antimony, Total	jb	< 1.89	mg/kg	d
143939	Arsenic, Total	rm	< 0.94	mg/kg	d
143939	Barium, Total	wac	< 11.5	mg/kg	d
14 39	Beryllium, Total	wac	< 0.460	mg/kg	
143939	Cadmium, Total	wac	< 0.920	mg/kg	d
143939	Calcium, Total	wac	853	mg/kg	d
143939	Chromium, Total	wac	5.61	mg/kg	d
143939	Cobalt, Total	wac	< 4.60	mg/kg	d
143939	Copper, Total	wac	< 4.60	mg/kg	d
143939	Iron, Total	wac	1280	mg/kg	d
143939	Lead, Total	jb	6.33	mg/kg	d
143939	Magnesium, Total	wac	381	mg/kg	d
143939	Manganese, Total	wac	12.2	mg/kg	d
143939	Mercury, Total	nk	< 0.12	mg/kg	d
143939	Nickel, Total	wac	< 4.60	mg/kg	d
143939	Potassium, Total	wac	127	mg/kg	d
1 939	Selenium, Total	rm	< 0.94	mg/kg	
143939	Silver, Total	wac	< 2.30	mg/kg	d

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GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815) 723-7

ANALYTICAL REPORT

TO: Environmental Protection Agncy
2200 Churchill Road
Springfield IL 62706

DATE: 12/28/88

RE: Valspar Soil Sample X105

ATTN: Mrs. Susan Doubet

Sample Date: 11/05/88
Date Received: 11/07/88
GCL Number: 143939

GCL #	PARAMETERS	ANALYST		RESULTS		
143939	Sodium, Total	wac		41.8	mg/kg	d
143939	Solids, Total	cls		80.7	%	
143939	Thallium, Total	jmf	<	0.94	mg/kg	d
143939	Vanadium, Total	wac	<	2.30	mg/kg	d
14 39	Zinc, Total	wac		13.5	mg/kg	d

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GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815) 72

ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X105

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143939

VOLATILE COMPOUNDS	RESULT	DETECTION LIMIT		
Chloromethane	BDL	1000	ug/kg	U
Bromomethane	BDL	1000	ug/kg	U
Vinyl Chloride	BDL	1000	ug/kg	U
Chloroethane	BDL	1000	ug/kg	U
Methylene Chloride	170	500	ug/kg	J B
Acetone	570	1000	ug/kg	J B
Carbon Disulfide	BDL	500	ug/kg	U
1,1-Dichloroethene	BDL	500	ug/kg	U
1,1-Dichloroethane	BDL	500	ug/kg	U
1,2-Dichloroethene (total)	BDL	500	ug/kg	U
Chloroform	BDL	500	ug/kg	U
1,2-Dichloroethane	BDL	500	ug/kg	U
2-Butanone	310	1000	ug/kg	J B
1,1,1-Trichloroethane	BDL	500	ug/kg	U
Carbon Tetrachloride	BDL	500	ug/kg	U
Vinyl Acetate	BDL	1000	ug/kg	U
Bromodichloromethane	BDL	500	ug/kg	U

GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
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ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X105

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143939

VOLATILE COMPOUNDS	RESULT	DETECTION LIMIT		
1,2-Dichloropropane	BDL	500	ug/kg	U
Cis-1,3-Dichloropropene	BDL	500	ug/kg	U
Trichloroethene	BDL	500	ug/kg	U
Dibromochloromethane	BDL	500	ug/kg	U
1,1,2-Trichloroethane	BDL	500	ug/kg	U
Benzene	BDL	500	ug/kg	U
Trans-1,3-Dichloropropene	BDL	500	ug/kg	U
Bromoform	BDL	500	ug/kg	U
4-Methyl-2-Pentanone	BDL	1000	ug/kg	U
2-Hexanone	BDL	1000	ug/kg	U
Tetrachloroethene	BDL	500	ug/kg	U
1,1,2,2-Tetrachloroethane	BDL	500	ug/kg	U
Toluene	BDL	500	ug/kg	U
Chlorobenzene	BDL	500	ug/kg	U
Ethylbenzene	BDL	500	ug/kg	U
Styrene	BDL	500	ug/kg	U
Xylene	BDL	500	ug/kg	U

GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
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ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X105

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143939

TENTATIVELY IDENTIFIED COMPOUNDS

Ten (10) Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any priority pollutants, surrogates or internal standards.

VOLATILE COMPOUND	RETENTION TIME	ESTIMATED CONCENTRATION		
Dimethylcyclohexane	15.82	1200	ug/kg	J
Dimethylcyclohexane	17.91	1100	ug/kg	J
Trimethylcyclohexane	18.64	1100	ug/kg	J
Ethylmethylcyclohexane	20.05	1100	ug/kg	J
Unknown	22.44	1100	ug/kg	J
Unknown	22.95	1200	ug/kg	J
Unknown	24.13	2100	ug/kg	J
Napthalene	24.62	2400	ug/kg	J
Unknown	25.27	1100	ug/kg	J
Unknown	25.68	2500	ug/kg	J

GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815) 723-7

ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X105

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143939

SEMIVOLATILE COMPOUNDS	RESULT	DETECTION LIMIT		
Phenol	BDL	330	ug/kg	U
bis(-2-Chloroethyl)Ether	BDL	330	ug/kg	U
2-Chlorophenol	BDL	330	ug/kg	U
1,3-Dichlorobenzene	BDL	330	ug/kg	U
1,4-Dichlorobenzene	BDL	330	ug/kg	U
Benzyl Alcohol	BDL	330	ug/kg	U
1,2-Dichlorobenzene	BDL	330	ug/kg	U
2-Methylphenol	BDL	330	ug/kg	U
bis(2-chloroisopropyl)Ether	BDL	330	ug/kg	U
4-Methylphenol	BDL	330	ug/kg	U
N-Nitroso-Di-n-Propylamine	BDL	330	ug/kg	U
Hexachloroethane	BDL	330	ug/kg	U
Nitrobenzene	BDL	330	ug/kg	U
Isophorone	BDL	330	ug/kg	U
2-Nitrophenol	BDL	330	ug/kg	U
2,4-Dimethylphenol	BDL	330	ug/kg	U
Benzoic Acid	BDL	1600	ug/kg	U

GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815) 723

ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X105

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143939

SEMIVOLATILE COMPOUNDS	RESULT	DETECTION LIMIT		
bis(-2-Chloroethoxy)Methane	BDL	330	ug/kg	U
2,4-Dichlorophenol	BDL	330	ug/kg	U
1,2,4-Trichlorobenzene	BDL	330	ug/kg	U
Naphthalene	BDL	330	ug/kg	U
4-Chloroaniline	BDL	330	ug/kg	U
Hexachlorobutadiene	BDL	330	ug/kg	U
4-Chloro-3-Methylphenol	BDL	330	ug/kg	U
2-Methylnaphthalene	BDL	330	ug/kg	U
Hexachlorocyclopentadiene	BDL	330	ug/kg	U
2,4,6-Trichlorophenol	BDL	330	ug/kg	U
2,4,5-Trichlorophenol	BDL	1600	ug/kg	U
2-Chloronaphthalene	BDL	330	ug/kg	U
2-Nitroaniline	BDL	1600	ug/kg	U
Dimethyl Phthalate	BDL	330	ug/kg	U
Acenaphthylene	BDL	330	ug/kg	U
2,6-Dinitrotoluene	BDL	330	ug/kg	U
3-Nitroaniline	BDL	1600	ug/kg	U

GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815) 723-

ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X105

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143939

SEMIVOLATILE COMPOUNDS	RESULT	DETECTION LIMIT		
Acenaphthene	BDL	330	ug/kg	U
2,4-Dinitrophenol	BDL	1600	ug/kg	U
4-Nitrophenol	BDL	1600	ug/kg	U
Dibenzofuran	BDL	330	ug/kg	U
2,4-Dinitrotoluene	BDL	330	ug/kg	U
Diethylphthalate	BDL	330	ug/kg	U
4-Chlorophenyl-phenylether	BDL	330	ug/kg	U
Fluorene	BDL	330	ug/kg	U
4-Nitroaniline	BDL	1600	ug/kg	U
4,6-Dinitro-2-Methylphenol	BDL	1600	ug/kg	U
N-Nitrosodiphenylamine (1)	BDL	330	ug/kg	U
4-Bromophenyl-phenylether	BDL	330	ug/kg	U
Hexachlorobenzene	BDL	330	ug/kg	U
Pentachlorophenol	BDL	1600	ug/kg	U
Phenanthrene	BDL	330	ug/kg	U
Anthracene	BDL	330	ug/kg	U
Di-n-Butylphthalate	BDL	330	ug/kg	U

GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815) [illegible]

ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X105

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143939

SEMIVOLATILE COMPOUNDS	RESULT	DETECTION LIMIT		
Fluoranthene	BDL	330	ug/kg	U
Pyrene	BDL	330	ug/kg	U
Butylbenzylphthalate	BDL	330	ug/kg	U
3,3'-Dichlorobenzidine	BDL	660	ug/kg	U
Benzo(a)Anthracene	BDL	330	ug/kg	U
Chrysene	BDL	330	ug/kg	U
bis(2-Ethylhexyl)Phthalate	380	330	ug/kg	B
Di-n-Octylphthalate	BDL	330	ug/kg	U
Benzo(b)Fluoranthene	BDL	330	ug/kg	U
Benzo(k)Fluoranthene	BDL	330	ug/kg	U
Benzo(a)Pyrene	BDL	330	ug/kg	U
Indeno(1,2,3-cd)Pyrene	BDL	330	ug/kg	U
Dibenz(a,h)Anthracene	BDL	330	ug/kg	U
Benzo(g,h,i)Perylene	BDL	330	ug/kg	U

(1) Cannot be separated from diphenylamine

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GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815) 723-7

ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X105

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143939

TENTATIVELY IDENTIFIED COMPOUNDS

Twenty (20) Semivolatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any priority pollutants, surrogates or internal standards.

SEMIVOLATILE COMPOUND	RETENTION TIME	ESTIMATED CONCENTRATION		
Unknown	6.40	2200	ug/kg	J A
Unknown Hydrocarbon	9.00	390	ug/kg	J
Unknown	9.53	220	ug/kg	J
Unknown	9.86	430	ug/kg	J
Unknown Hydrocarbon	11.06	940	ug/kg	J
Unknown Hydrocarbon	11.45	430	ug/kg	J
Unknown	11.67	330	ug/kg	J
Unknown	11.96	700	ug/kg	J
Unknown Hydrocarbon	12.41	470	ug/kg	J
Unknown	13.22	490	ug/kg	J

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J64

GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815) 7[illegible]

ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X105

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143939

TENTATIVELY IDENTIFIED COMPOUNDS

SEMIVOLATILE COMPOUND	RETENTION TIME	ESTIMATED CONCENTRATION		
Unknown Hydrocarbon	13.47	280	ug/kg	J
Unknown	13.59	380	ug/kg	J
Unknown	14.06	240	ug/kg	J
Unknown Hydrocarbon	15.26	430	ug/kg	J
Unknown	16.42	370	ug/kg	J
Unknown	28.52	870	ug/kg	J B
Unknown Acid Ester	32.31	920	ug/kg	J
Unknown	36.48	490	ug/kg	J B
Unknown	41.66	270	ug/kg	J
Unknown	43.47	530	ug/kg	J

GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815) 723-

ANALYTICAL REPORT

TO: Environmental Protection Agncy
2200 Churchill Road
Springfield IL 62706

DATE: 12/28/88

RE: Valspar Soil Sample X106

ATTN: Mrs. Susan Doubet

Sample Date: 11/05/88
Date Received: 11/07/88
GCL Number: 143940

GCL #	PARAMETERS	ANALYST	RESULTS		
143940	Aluminum, Total	wac	950	mg/kg	d
143940	Antimony, Total	jb	< 1.77	mg/kg	d
143940	Arsenic, Total	rm	< 0.88	mg/kg	dl
143940	Barium, Total	wac	70.8	mg/kg	d
14 40	Beryllium, Total	wac	< 0.428	mg/kg	dl
143940	Cadmium, Total	wac	< 0.856	mg/kg	d
143940	Calcium, Total	wac	2570	mg/kg	d
143940	Chromium, Total	wac	16.2	mg/kg	d
143940	Cobalt, Total	wac	< 4.28	mg/kg	d
143940	Copper, Total	wac	14.8	mg/kg	d
143940	Iron, Total	wac	5090	mg/kg	d
143940	Lead, Total	wac	104	mg/kg	d
143940	Magnesium, Total	wac	1360	mg/kg	d
143940	Manganese, Total	wac	42.9	mg/kg	d
143940	Mercury, Total	nk	0.15	mg/kg	d
143940	Nickel, Total	wac	4.41	mg/kg	d
143940	Potassium, Total	wac	219	mg/kg	d
1 940	Selenium, Total	rm	< 0.88	mg/kg	d
143940	Silver, Total	wac	< 2.14	mg/kg	d

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GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815) 72:

ANALYTICAL REPORT

TO: Environmental Protection Agncy
2200 Churchill Road
Springfield IL 62706

DATE: 12/28/88

RE: Valspar Soil Sample X106

ATTN: Mrs. Susan Doubet

Sample Date: 11/05/88
Date Received: 11/07/88
GCL Number: 143940

GCL #	PARAMETERS	ANALYST	RESULTS		
143940	Sodium, Total	wac		43.6	mg/kg
143940	Solids, Total	cls		85.3	%
143940	Thallium, Total	jmf	<	0.88	mg/kg
143940	Vanadium, Total	wac		3.06	mg/kg
1 40	Zinc, Total	wac		153	mg/kg

GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815) 723-7

ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X106

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143940

VOLATILE COMPOUNDS	RESULT	DETECTION LIMIT		
Chloromethane	BDL	1000	ug/kg	U
Bromomethane	BDL	1000	ug/kg	U
Vinyl Chloride	BDL	1000	ug/kg	U
Chloroethane	BDL	1000	ug/kg	U
Methylene Chloride	440	500	ug/kg	J B
Acetone	790	1000	ug/kg	J B
Carbon Disulfide	BDL	500	ug/kg	U
1,1-Dichloroethene	BDL	500	ug/kg	U
1,1-Dichloroethane	BDL	500	ug/kg	U
1,2-Dichloroethene (total)	BDL	500	ug/kg	U
Chloroform	BDL	500	ug/kg	U
1,2-Dichloroethane	BDL	500	ug/kg	U
2-Butanone	300	1000	ug/kg	J B
1,1,1-Trichloroethane	BDL	500	ug/kg	U
Carbon Tetrachloride	BDL	500	ug/kg	U
Vinyl Acetate	BDL	1000	ug/kg	U
Bromodichloromethane	BDL	500	ug/kg	U

GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815) 723

ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

DATE: December 6, 1988

RE: Valspar Soil Sample X106

ATTN: Mrs. Susan Doubet

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143940

VOLATILE COMPOUNDS	RESULT	DETECTION LIMIT		
1,2-Dichloropropane	BDL	500	ug/kg	U
Cis-1,3-Dichloropropene	BDL	500	ug/kg	U
Trichloroethene	BDL	500	ug/kg	U
Dibromochloromethane	BDL	500	ug/kg	U
1,1,2-Trichloroethane	BDL	500	ug/kg	U
Benzene	BDL	500	ug/kg	U
Trans-1,3-Dichloropropene	BDL	500	ug/kg	U
Bromoform	BDL	500	ug/kg	U
4-Methyl-2-Pentanone	BDL	1000	ug/kg	U
2-Hexanone	BDL	1000	ug/kg	U
Tetrachloroethene	BDL	500	ug/kg	U
1,1,2,2-Tetrachloroethane	BDL	500	ug/kg	U
Toluene	BDL	500	ug/kg	U
Chlorobenzene	BDL	500	ug/kg	U
Ethylbenzene	790	500	ug/kg	
Styrene	BDL	500	ug/kg	U
Xylene	18000	500	ug/kg	

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GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815) 723-7

ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X106

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143940

TENTATIVELY IDENTIFIED COMPOUNDS

Ten (10) Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any priority pollutants, surrogates or internal standards.

VOLATILE COMPOUND	RETENTION TIME	ESTIMATED CONCENTRATION		
Trichlorotrifluoroethane	8.08	4200	ug/kg	J
Unknown	22.42	12000	ug/kg	J
Unknown	22.97	9000	ug/kg	J
Unknown	23.16	7500	ug/kg	J
Unknown	23.68	3700	ug/kg	J
Unknown	24.13	12000	ug/kg	J
Unknown	24.50	3200	ug/kg	J
Unknown	24.77	4600	ug/kg	J
Unknown	25.27	7800	ug/kg	J
Unknown	25.68	7800	ug/kg	J

J10

GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815) 72

ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X106

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143940

SEMIVOLATILE COMPOUNDS	RESULT	DETECTION LIMIT		
Phenol	BDL	330	ug/kg	U
bis(-2-Chloroethyl)Ether	BDL	330	ug/kg	U
2-Chlorophenol	BDL	330	ug/kg	U
1,3-Dichlorobenzene	BDL	330	ug/kg	U
1,4-Dichlorobenzene	BDL	330	ug/kg	U
Benzyl Alcohol	BDL	330	ug/kg	U
1,2-Dichlorobenzene	BDL	330	ug/kg	U
2-Methylphenol	BDL	330	ug/kg	U
bis(2-chloroisopropyl)Ether	BDL	330	ug/kg	U
4-Methylphenol	BDL	330	ug/kg	U
N-Nitroso-Di-n-Propylamine	BDL	330	ug/kg	U
Hexachloroethane	BDL	330	ug/kg	U
Nitrobenzene	BDL	330	ug/kg	U
Isophorone	BDL	330	ug/kg	U
2-Nitrophenol	BDL	330	ug/kg	U
2,4-Dimethylphenol	BDL	330	ug/kg	U
Benzoic Acid	BDL	1600	ug/kg	U

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GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815) 723-

ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X106

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143940

SEMIVOLATILE COMPOUNDS	RESULT	DETECTION LIMIT		
bis(-2-Chloroethoxy)Methane	BDL	330	ug/kg	U
2,4-Dichlorophenol	BDL	330	ug/kg	U
1,2,4-Trichlorobenzene	BDL	330	ug/kg	U
Naphthalene	BDL	330	ug/kg	U
4-Chloroaniline	BDL	330	ug/kg	U
Hexachlorobutadiene	BDL	330	ug/kg	U
4-Chloro-3-Methylphenol	BDL	330	ug/kg	U
2-Methylnaphthalene	BDL	330	ug/kg	U
Hexachlorocyclopentadiene	BDL	330	ug/kg	U
2,4,6-Trichlorophenol	BDL	330	ug/kg	U
2,4,5-Trichlorophenol	BDL	1600	ug/kg	U
2-Chloronaphthalene	BDL	330	ug/kg	U
2-Nitroaniline	BDL	1600	ug/kg	U
Dimethyl Phthalate	BDL	330	ug/kg	U
Acenaphthylene	BDL	330	ug/kg	U
2,6-Dinitrotoluene	BDL	330	ug/kg	U
3-Nitroaniline	BDL	1600	ug/kg	U

GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815) 723-

ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 7, 1988

RE: Valspar Soil Sample X106

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143940

SEMIVOLATILE COMPOUNDS	RESULT	DETECTION LIMIT		
Acenaphthene	BDL	330	ug/kg	U
2,4-Dinitrophenol	BDL	1600	ug/kg	U
4-Nitrophenol	BDL	1600	ug/kg	U
Dibenzofuran	BDL	330	ug/kg	U
2,4-Dinitrotoluene	BDL	330	ug/kg	U
Diethylphthalate	BDL	330	ug/kg	U
4-Chlorophenyl-phenylether	BDL	330	ug/kg	U
Fluorene	BDL	330	ug/kg	U
4-Nitroaniline	BDL	1600	ug/kg	U
4,6-Dinitro-2-Methylphenol	BDL	1600	ug/kg	U
N-Nitrosodiphenylamine (1)	BDL	330	ug/kg	U
4-Bromophenyl-phenylether	BDL	330	ug/kg	U
Hexachlorobenzene	BDL	330	ug/kg	U
Pentachlorophenol	BDL	1600	ug/kg	U
Phenanthrene	120	330	ug/kg	J
Anthracene	33	330	ug/kg	J
Di-n-Butylphthalate	BDL	330	ug/kg	U

GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815) 723-

ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X106

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143940

SEMIVOLATILE COMPOUNDS	RESULT	DETECTION LIMIT		
Fluoranthene	140	330	ug/kg	J
Pyrene	130	330	ug/kg	J
Butylbenzylphthalate	BDL	330	ug/kg	U
3,3'-Dichlorobenzidine	BDL	660	ug/kg	U
Benzo(a)Anthracene	61	330	ug/kg	J
Chrysene	65	330	ug/kg	J
bis(2-Ethylhexyl)Phthalate	370	330	ug/kg	B
Di-n-Octylphthalate	BDL	330	ug/kg	U
Benzo(b)Fluoranthene	50	330	ug/kg	J
Benzo(k)Fluoranthene	45	330	ug/kg	J
Benzo(a)Pyrene	BDL	330	ug/kg	U
Indeno(1,2,3-cd)Pyrene	BDL	330	ug/kg	U
Dibenz(a,h)Anthracene	BDL	330	ug/kg	U
Benzo(g,h,i)Perylene	BDL	330	ug/kg	U

(1) Cannot be separated from diphenylamine

GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815) 723-

ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X106

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143940

TENTATIVELY IDENTIFIED COMPOUNDS

Twenty (20) Semivolatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any priority pollutants, surrogates or internal standards.

SEMIVOLATILE COMPOUND	RETENTION TIME	ESTIMATED CONCENTRATION		
Substituted Benzene	7.14	4400	ug/kg	J
Unknown Hydrocarbon	11.11	4100	ug/kg	J
Unknown	12.01	3400	ug/kg	J
Unknown	13.29	3800	ug/kg	J
Unknown	14.13	3500	ug/kg	J
Unknown Hydrocarbon	14.46	2300	ug/kg	J
Unknown + ISTD	14.83	4600	ug/kg	J
Unknown Hydrocarbon	15.36	5500	ug/kg	J
Unknown	15.64	2300	ug/kg	J
Unknown	15.91	3300	ug/kg	J

GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815) 723-

ANALYTICAL REPORT

TO: Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

ATTN: Mrs. Susan Doubet

DATE: December 6, 1988

RE: Valspar Soil Sample X106

Sample Date: 11/05/88
Date Received: 11/07/88
GCL#: 143940

TENTATIVELY IDENTIFIED COMPOUNDS

SEMIVOLATILE COMPOUND	RETENTION TIME	ESTIMATED CONCENTRATION		
Unknown Hydrocarbon	16.09	2300	ug/kg	J
Unknown Hydrocarbon	16.50	5500	ug/kg	J
Unknown	17.53	1900	ug/kg	J
Unknown	17.89	3100	ug/kg	J
Unknown Hydrocarbon	18.41	3800	ug/kg	J
Substituted Naphthalene	19.41	2300	ug/kg	J
Unknown Hydrocarbon	19.88	2700	ug/kg	J
Unknown Hydrocarbon	23.65	1900	ug/kg	J
Unknown	28.34	4300	ug/kg	J
Unknown	29.31	2000	ug/kg	J

GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815

The following is a list of flags that Gulf Coast Laboratories frequently uses on our analytical reports. All flags may not be applicable for the enclosed reports.

A - Indicates a condensation product

B - Indicates the compound was found in the blank as well as the sample.

C - Pesticide compound confirmed by GC/MS

d - Result is on a dry weight basis

D - Indicates the compound was identified in an analysis at a secondary dilution factor. If a sample is re-analyzed at a higher dilution, the "DL" suffix is appended to sample numbers.

e - Concentrations exceed calibration range of the instrument for that specific analysis.

E - Severe matrix interference

J - Indicates an estimated value which is below detection limit

P - Peaks present but do not appear to be PCBs

R - Spike recovery not within control limit

S - Indicates value determined by Method of Standard Addition

U - Indicates compound was analyzed for but not detected

W - Result is on an "as is basis" (wet weight)

X - Result by calculation.

BDL - Below Detection Limit

NA - Not Applicable

NR - Not Required

* - Duplicate not within control limits

+ - Correlation coefficient for MSA < 0.995

@ - Due to matrix interference, post analytical spike is out of control limits.

000066

2417 Bond Street
University Park, Illinois 60466-

CHAIN OF CUSTODY RECORD

Source of Sample Valspar / ILEPA

Telephone

SAMPLE ID	GCL #	ANALYSIS	PRES.	OBSERVATIONS
X 101	143935	Total Metals BNA VOA		
X 102	143936			
X 103	143937			
X 104	143938			
X 105	143939			
X 106	143940			

LABORATORY SECURED

Delivered by	Print name: ILEPA Courier Signature :	Date: 11/7/88 Time: 15:40	Comments:
Received by	Print name: Kathy Miller Signature : Kathy Miller	Date: 11/7/88 Time: 15:40	Comments:
Secured by	Print name: Kathy Miller Signature : Kathy Miller	Date: 11/7/88 Time: 15:40	Comments:

Secured/Circle: Walk in Cooler Organic Refrigerator Other: GCMS refrigerator

RELINQUISHED

Relinquished to circled: 1=returned to customer 2=Commercial Disposer 3=Other _____

linquished by	Print name: Signature :	Date: Time:	Comments:
Received by	Print name: Signature :	Date: Time:	Comments:

000069

J78

[redacted]

SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
Z101	11-4-88	15:05 ~~[illegible]~~

Sample Appearance: [illegible]

Collector Comments: 1-2 pm

Sampler Signature: [signature] Division/Company: DLPC

CONTAI[illegible]				FILTERING		
No.	Code	[illegible]	[redacted]	/N)	Date	Time
11	15	[illegible]				
11	8	[illegible]				
2	12	20				

CHAIN OF CUSTODY CHRONICLE

[illegible] the sample shipping container with the shipping container sealed and intact

Opened by (print): Steve Zebovitz Signature: [signature]

Date: 11-4-88 Time: 12:30 Seal #: 3833 Intact?: ( ) N

[illegible] the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in [illegible] shipping container and that I sealed the sample shipping container at the date and time listed below

Sealed by (print): Mitch Lewis Signature: [signature]

Date: 11-5-88 Time: 430 PM Seal #: ~~[illegible]~~ ML 0003534

Courier - sample [illegible]

[redacted]

[redacted]

[redacted] Z102 11/5/88 10:55AM

DARK

Collector Comments: [illegible]

Sampler Signature : [illegible] Division/Company IEA/DLPC

CONTAINER	ANALYSIS	FILTERING		
[redacted]		/N)	Date	Time
1				
1				
2				

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): STEVE ZEBOVITZ Signature: [illegible]

Date: 11-4-88 Time: 12:30 Seal #: 3833 Intact?: Y / N

I certify that the sample listed above was collected and placed in bottles in m, presence, that each bottle was placed intact in sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Mitch Lewis Signature: [illegible]

Date: 11-5-88 Time: 4:30 PM Seal #: [illegible]

Courier - sample pickup:

[redacted]

J80

[redacted]

SAMPLE I	SAMPLE DATE	SAMPLE TIM
X103	11/5/88	1245 Pl

Sample Appearance : Grey Sand

Collector Comments: HNU ~ 5 ppm

Sampler Signature : [signature] Division/Company IEPA / DLPC

			FILTERING		
			/N)	Date	Tim
1					
1	5				
2	12	12			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact

Opened by (print): STEVE ZEBOVITZ Signature: [signature]

Date: 11-4-88 Time: 12:30 Seal #: 3833 Intact: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): [signature] Signature: [signature]

Date: 11/5/88 Time: 430 PM Seal #: [illegible] 0003834

Courier - sample pickup

[redacted]

IEPA - C[redacted] Seal #: 3833

CH[redacted]

Faci[redacted]

Name[redacted]

[redacted]ion[redacted] [redacted]ing Code: [redacted]

[redacted]nty: CO[redacted] Project Manager : STEVE [redacted]

[redacted]

SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
X104	[illegible]-88	[illegible]

Sample Appearance : [illegible]

Collector Comments: [illegible] ppm

Sampler Signature : [illegible] Division/Company/ [illegible]

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
1	5	32oz	----	TOTAL METALS			
1	5	32oz	----	BNA			
2	12	2oz	----	VOA			

[illegible]

[illegible] (print): STEVE ZEBOVITZ Signature: [illegible]

[illegible] 11-1-88 Time 12:30 Seal # 3833 [illegible]

[illegible]

[illegible] (print): [illegible] Signature: [illegible]

11/5/88 Time: 430PM Seal #: [illegible], 0003834

[illegible] - sample pickup: _____

[redacted]

[redacted]

SAMPLE I	SAMPLE DATE	SAMPLE TIM
X105	11-5-88	345PM

Sample Appearance : dark Sand

Collector Comments: [illegible] 5-10 ppm

Sampler Signature : [signature] Division/Company IEPA/DLPC

[redacted]	FILTERING		
	Y/N	Date	Time

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): STEVE ZEBOVITZ Signature: [signature]

Date: 11-4-88 Time: 12:30 Seal #: 3833 Intact? Y / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Mitch Lewis Signature: [signature]

Date: 11/5/88 Time: 430PM Seal #: [redacted] 0003834

Courier - [redacted]

[redacted]

[redacted]

SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
X106	11/5/88	8:45 AM

Sample Appearance : Dark [illegible]

Collector Comments: [illegible] 20-30 [illegible]

Sampler Signature : [illegible] Division/Company: IEA/D.2C

[illegible]					FILTERING		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	(Y/N)	Date	Time
[illegible]	5	[illegible]	[illegible]	[illegible]			
[illegible]	5	32oz	[illegible]	[illegible]			
12	12	2oz	[illegible]	VOA			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact

Opened by (print): STEVE ZEBOVITZ Signature: [illegible]

Date: 11-4-88 Time 12:30 Seal #: 3833 Intact: Y / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below

Sealed by (print): Mitch Lewis Signature: [illegible]

Date: 11/5/88 Time: 430PM Seal #: [illegible] 0003834

Courier - sample pickup

[redacted]

Division -- 0316005773 / Copy

GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones (312) 534-5200 (219) 885-7077 (815) 7

Valspar
S.F. Tech

December 28, 1988

Mrs. Susan Doubet
Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

Dear Mrs. Doubet:

Please find enclosed the analytical reports for the samples submitted to Gulf Coast Laboratories for analyses. They were identified as follows:

PROJECT: Valspar

CLIENT ID	GCL#	SAMPLE DATE	DATE RECEIVED
Soil Sample X101	143935	11/04/88	11/07/88
Soil Sample X102	143936	11/05/88	11/07/88
Soil Sample X103	143937	11/05/88	11/07/88
Soil Sample X104	143938	11/05/88	11/07/88
Soil Sample X105	143939	11/05/88	11/07/88
Soil Sample X106	143940	11/05/88	11/07/88

If you have any questions, please contact our laboratories.

Sincerely,

WESTON/GULF COAST LABORATORIES

John Boudreau

John Boudreau
Lab Manager

RECEIVED
JAN 5 1989
IEPA-DLPC

JB/sj

Enclosures

000001

JES

TELECOPY TRANSMITTAL FORM

DATE: 12-29-88 WORK ORDER NO.:

TIME: 3:30 PM TRANSMITTED BY: Jak

TOTAL NUMBER OF PAGES (INCLUDING COVER SHEET) 12

TO: (PERSON) Steve Gobleman

ORGANIZATION/LOCATION IEPA

FROM: (PERSON) James Kinsey

ROY F. WESTON, INC.
BANNOCKBURN, IL OFFICE
TELECOPY NUMBER: (312)295-6044
VERIFICATION NUMBER: (312)295-5020

COMMENTS:

attached are our results for the cooper's pit area of the Goodwill site at 1330 South Kilbourn, Chicago. Ill.

WESTON-GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones: (312) 534-5200 (219) 885-7077 (815) 723-7533

0316005495 Cook
Valspar
SF / Techn Rept

December 6, 1988

Mr. James Kinsey
Roy F. Weston, Inc.
100 Corporte North, Suite 101
Bannockburn, IL 60015

Dear Mr. Kinsey:

Please find enclosed the analytical reports for the samples submitted to Gulf Coast laboratories for analyses. They were identified as follows:

Project Name: Valspar-Kilbourn
WO# 2875-01-01

CLIENT ID	SAMPLE GCL#	DATE DATE	RECEIVED
Sample B-1	143994	11/04/88	11/08/88
Sample B-2	143995	11/05/88	11/08/88
Sample B-3	143996	11/05/88	11/08/88
Sample B-4	143997	11/05/88	11/08/88
Sample B-5	143998	11/05/88	11/08/88
Sample B-6	143999	11/05/88	11/08/88

If you have any questions, please contact our laboratories.

Sincerely,

WESTON/GULF COAST LABORATORIES

John Boudreau

John Boudreau
Lab Manager

JB/lg
Enclosures

RECEIVED
DEC 0 8 1988
ROY F. WESTON, INC.
CHICAGO OFFICE

J87

SENT BY:Xerox Telecopier 7020 ;12-29-88 ; 15:48 ; 3122956044→ 217 785 3846;# 3

2875-01-01

WESTON

Custody Transfer Record/Lab Work Request

Received By _____ Client Valspar - K Hawn RFW Contact J. Kinsey

Date _____ Client Contact J. Kinsey Date Due Nov. 30, 1988

Assigned to _____ Phone 245-6020 ~~Project Number~~ see comment

ISOP A1

SAMPLE IDENTIFICATION **ANALYSES REQUESTED**

Sample No.	Client ID No.	Description	Matrix	Date Collected	Container/Preservative	Xylene	Naphtha	MEK	IPA	Non-Ch VOA	[illegible]		
B-1		Tank U-8S (X101)	S	11-4-88	[illegible]	X							
B-2		Tank U-14 South (X102)	S	11-5-88	" "		X						
B-3		Tank U-12 S. West (X103)	S	11-5-88	" "		X						
B-4		Tank U-10 North (X109)	S	11-5-88	" "			X					
B-5		Tank U-11 East (X105)	S	11-5-88	" "				X				
B-6		Tank U-3 West (X106)	S	11-5-88	" "					X			

Matrix:
S- Soil DS- Drum Solids
W- Water DL- Drum Liquids
O- Oil X- Other

Special Instructions: INVOICE: KINSEY Consulting Directly: 30399 Chardon W. Grayslake, Illinois 600[illegible]
TAG #9777 + 9778

Items/Reason	Relinquished By	Received By	Date	Time	Items/Reason	Relinquished By	Received By	Date	Time
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					

J88

WESTON-GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones: (312) 534-5200 (219) 885-7077 (815) 723-75

The following is a list of flags that Gulf Coast Laboratories frequently uses on our analytical reports. All flags may not be applicable for the enclosed reports.

A - Indicates a condensation product

B - Indicates the compound was found in the blank as well as the sample.

C - Pesticide compound confirmed by GC/MS

d - Result is on a dry weight basis

D - Indicates the compound was identified in an analysis at a secondary dilution factor. If a sample is re-analyzed at a higher dilution, the "DL" suffix is appended to sample numbers.

e - Concentrations exceed calibration range of the instrument for that specific analysis.

E - Severe matrix interference

J - Indicates an estimated value which is below detection limit

P - Peaks present but do not appear to be PCBs

R - Spike recovery not within control limit

S - Indicates value determined by Method of Standard Addition

U - Indicates compound was analyzed for but not detected

W - Result is on an "as is basis" (wet weight)

X - Result by calculation.

BDL - Below Detection Limit

NA - Not Applicable

NR - Not Required

* - Duplicate not within control limits

+ - Correlation coefficient for MSA < 0.995

@ - Due to matrix interference, post analytical spike is out of control limits.

WESTON
MANAGERS DESIGNERS/CONSULTANTS

WESTON-GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones: (312) 534-5200 (219) 885-7077 (815) 723-7532

ANALYTICAL REPORT

TO: Roy F. Weston, Incorporated
100 Corporate North, Suite 101
Bannockburn IL 60015

ATTN: Mr. James Kinsey

DATE: 12/01/88

RE: Valspar-Kilbourn Sample B-1
W.O.# 2875-01-01
Sample Date: 11/04/88
Date Received: 11/08/88
GCL Number: 143994

GCL #	PARAMETERS	ANALYST	RESULTS		
143994	Solids, Total	cls	86.2	%	
143994	Xylenes	mmr	60	ug/kg	d

J90

WESTON-GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones: (312) 534-5200 (219) 885-7077 (815) 72

ANALYTICAL REPORT

TO: Roy F. Weston, Incorporated
100 Corporate North, Suite 101
Bannockburn IL 60015

ATTN: Mr. James Kinsey

DATE: 12/01/88

RE: Valspar-Kilbourn Sample B-2
W.O.# 2875-01-01
Sample Date: 11/05/88
Date Received: 11/08/88
GCL Number: 143995

GCL #	PARAMETERS	ANALYST	RESULTS		
143995	Naphtha	mmr	420	mg/kg	d
143995	Solids, Total	cls	84.9	%	

J91

WESTON
MANAGERS DESIGNERS/CONSULTANTS

WESTON-GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones: (312) 534-5200 (219) 885-7077 (815) 723-7533

ANALYTICAL REPORT

TO: Roy F. Weston, Incorporated
100 Corporate North, Suite 101
Bannockburn IL 60015

ATTN: Mr. James Kinsey

DATE: 12/01/88

RE: Valspar-Kilbourn Sample B-3
W.O.# 2875-01-01
Sample Date: 11/05/88
Date Received: 11/08/88
GCL Number: 143996

GCL #	PARAMETERS	ANALYST	RESULTS		
143996	Naphtha	mmr	130	mg/kg	d
143996	Solids, Total	cls	81.7	%	

J92

WESTON-GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones: (312) 534-5200 (219) 885-7077 (815) 723

ANALYTICAL REPORT

TO: Roy F. Weston, Incorporated
100 Corporate North, Suite 101
Bannockburn IL 60015

ATTN: Mr. James Kinsey

DATE: 12/01/88

RE: Valspar-Kilbourn Sample B-4
W.O.# 2875-01-01
Sample Date: 11/05/88
Date Received: 11/08/88
GCL Number: 143997

GCL #	PARAMETERS	ANALYST	RESULTS		
143997	Methyl Ethyl Ketone (2-butanone)	mmr	< 100	ug/kg	d
143997	Solids, Total	cls	80.7	%	

J93

WESTON
MANAGERS DESIGNERS/CONSULTANTS

WESTON-GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones: (312) 534-5200 (219) 865-7077 (815) 723-7533

ANALYTICAL REPORT

TO: Roy F. Weston, Incorporated
100 Corporate North, Suite 101
Bannockburn IL 60015

ATTN: Mr. James Kinsey

DATE: 12/01/88

RE: Valspar-Kilbourn Sample B-5
W.O.# 2875-01-01
Sample Date: 11/05/88
Date Received: 11/08/88
GCL Number: 143998

GCL #	PARAMETERS	ANALYST	RESULTS		
143998	Isopropyl Alcohol	mmr	< 900	ug/kg	d
143998	Solids, Total	cls	80.1	%	

J94

WESTON-GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones: (312) 534-5200 (219) 885-7077 (815) 723-7

ANALYTICAL REPORT

TO: Roy F. Weston, Incorporated
100 Corporated North
Suite 101
Bannockburn, IL 60015

ATTN: Mr. Rich Gnat

DATE: December 7, 1988

RE: WO#2875-01-01/Valspar-Kilbourn
Sample B-6
Sample Date: 11/05/88
Date Received: 11/08/88
GCL#: 143999

VOLATILE COMPOUNDS	RESULT	DETECTION LIMIT		
Chloromethane	BDL	1000	ug/kg	U
Bromomethane	BDL	1000	ug/kg	U
Vinyl Chloride	BDL	1000	ug/kg	U
Chloroethane	BDL	1000	ug/kg	U
Methylene Chloride	180	500	ug/kg	J B
Acetone	580	1000	ug/kg	J B
Carbon Disulfide	BDL	500	ug/kg	U
1,1-Dichloroethene	BDL	500	ug/kg	U
1,1-Dichloroethane	BDL	500	ug/kg	U
1,2-Dichloroethene (total)	BDL	500	ug/kg	U
Chloroform	BDL	500	ug/kg	U
1,2-Dichloroethane	BDL	500	ug/kg	U
2-Butanone	170	1000	ug/kg	J B
1,1,1-Trichloroethane	BDL	500	ug/kg	U
Carbon Tetrachloride	BDL	500	ug/kg	U
Vinyl Acetate	BDL	1000	ug/kg	U
Bromodichloromethane	BDL	500	ug/kg	U

J95

WESTON
MANAGERS DESIGNERS/CONSULTANTS

WESTON-GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones: (312) 534-5200 (219) 885-7077 (815) 723-7533

ANALYTICAL REPORT

TO: Roy F. Weston, Incorporated
100 Corporated North
Suite 101
Bannockburn, IL 60015

ATTN: Mr. Rich Gnat

DATE: December 7, 1988

RE: WO#2875-01-01/Valspar-Kilbourn
Sample B-6
Sample Date: 11/05/88
Date Received: 11/08/88
GCL#: 143998

VOLATILE COMPOUNDS	RESULT	DETECTION LIMIT		
1,2-Dichloropropane	BDL	500	ug/kg	U
Cis-1,3-Dichloropropene	BDL	500	ug/kg	U
Trichloroethene	BDL	500	ug/kg	U
Dibromochloromethane	BDL	500	ug/kg	U
1,1,2-Trichloroethane	BDL	500	ug/kg	U
Benzene	BDL	500	ug/kg	U
Trans-1,3-Dichloropropene	BDL	500	ug/kg	U
Bromoform	BDL	500	ug/kg	U
4-Methyl-2-Pentanone	BDL	1000	ug/kg	U
2-Hexanone	BDL	1000	ug/kg	U
Tetrachloroethene	BDL	500	ug/kg	U
1,1,2,2-Tetrachloroethane	BDL	500	ug/kg	U
Toluene	180	500	ug/kg	J
Chlorobenzene	BDL	500	ug/kg	U
Ethylbenzene	6800	500	ug/kg	
Styrene	BDL	500	ug/kg	U
Xylene	33000	500	ug/kg	
Total Solids	80.1%			

J96

WESTON-GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones: (312) 534-5200 (219) 885-7077 (815) 723-

ANALYTICAL REPORT

TO: Roy F. Weston, Incorporated
100 Corporated North
Suite 101
Bannockburn, IL 60015

ATTN: Mr. Rich Gnat

DATE: December 7, 1988

RE: WO#2875-01-01/Valspar-Kilbourn
Sample B-6
Sample Date: 11/05/88
Date Received: 11/08/88
GCL#: 143999

TENTATIVELY IDENTIFIED COMPOUNDS

Nine (9) Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any priority pollutants, surrogates or internal standards.

VOLATILE COMPOUND	RETENTION TIME	ESTIMATED CONCENTRATION		
Unknown	22.49	22000	ug/kg	J
Unknown Hydrocarbon	22.98	14000	ug/kg	J
Unknown	23.24	13000	ug/kg	J
Unknown	24.20	15000	ug/kg	J
Unknown	24.59	4900	ug/kg	J
Unknown	24.69	5400	ug/kg	J
Unknown	24.83	4700	ug/kg	J
Unknown	25.32	10000	ug/kg	J
Unknown Benzene C9H12	25.77	13000	ug/kg	J

Illinois Environmental Protection Agency · P. O. Box 19276, Springfield, IL 62794-9276

217/782-6761

Refer to: 0316005445 -- Cook County
Chicago/Valspar - 1330 S. Kilbourne Ave.
Superfund/Technical Reports

March 3, 1989

Fredrikson and Byron, P.A.
Attention: Leo Stern
1100 International Center
900 Second Ave. South
Minneapolis, Minnesota 55402-3397

Dear Mr. Stern:

The Agency has reviewed the information submitted on the contamination and remediation of on-site contaminated soils at the Valspar site in Chicago, Illinois. The Agency has submitted the information through its Clean-up Objectives Team (COT) and Coordinated Review of Permit Applications (CRCPA) for there recommendations on clean-up levels on the contaminated soils. At this time the Agency is recommending the following cleanup objectives:

Parameter	Objective (ug/kg)	ADL (ug/kg)
Methylene Chloride	19300.	5
Xylene	2087.	5
Phenanthrene	10.	330

The Agency further recommends that additional sampling be done and EP Toxicity analysis be conducted. If the results of the lead analysis show contamination greater than 100 ug/l (EP Tox) then the Agency will need to reconsider setting an objective for lead.

Before you can start implementing cleanup objectives, you will need to submit, for Agency approval, a work plan, which will include a Health and Safety Plan.

J98

Please submit three (3) copies of any reports involving the above remediation to the Agency. If you have any questions, please contact me at 217/785-0231.

Sincerely,

Steve Gobelman, Project Manager
Immediate Removal Unit
Remedial Project Management Section
Division of Land Pollution Control

SG:bjh/07 '56,57

cc: Division File
Northern Region
Don Gimbel
Scott Sachnoff - Assistant Corporate Counsel, City of Chicago
Russell B. Selman - Goodwill
Jim Kinsey - Weston

K

2.5 FACILITY CHARACTERIZATION ACTIVITIES

In addition to IEPA and EPA, Goodwill and the Chicago Fire Department (CFD) have investigated the facility.

2.5.1 Goodwill

Goodwill has initiated limited sampling efforts at the facility through its contractor, RERC. Goodwill's sampling efforts were undertaken to characterize the facility and are not related to any enforcement actions requested by IEPA. A January 1990 RERC environmental assessment report documents a number of contaminants at the facility. RERC identified several areas of potential environmental concern, including (1) possible PCB contamination, (2) the presence of underground storage tanks, (3) contaminated process vessels and piping, (4) resin- and oil-stained and coated floors, (5) peeling paint, and (6) the presence of asbestos (RERC, 1990a).

RERC collected a number of environmental samples during its facility visit in December 1989. RERC's findings are summarized in Table 4. Wipe samples were taken from various wall and floor surfaces at the facility and analyzed for PCBs. Each wipe sample was collected over an area of 100 square centimeters (cm^2). PCB sampling revealed total PCBs at levels up to of 4,413,000 micrograms per 100 cm^2 ($\mu g/100\ cm^2$). RERC stated that because the surfaces that were sampled are considered to be low contact surfaces, "Based on U.S. EPA's spill cleanup policy, the cleanup level for these areas is 10 $\mu g/100\ cm^2$" (RERC, 1990a). Based on the levels of PCBs found on site, RERC believes that PCB-containing transformers were likely to have been present on the property. According to RERC, oils containing 600,000 to 700,000 ppm PCBs were typically contained in such transformers (RERC, 1990b).

K1

TABLE 3

SUMMARY OF TAT SAMPLING ANALYTICAL RESULTS[a]
(parts per million)[b]

Sample Number	Building	Matrix	2-Butanone	Toluene	Ethylbenzene	Benzene	Xylene
S-47	7-C	Liquid	BDL[c]	BDL	BDL	BDL	BDL
S-52	6	Resin	31.4	5.05	60.06	BDL	165.0
S-55	10	Tar	BDL	1.47	20.1	0.77	63.5
S-56	10	Soil	BDL	0.474	3.18	BDL	11.5

Sample Number	Building	Matrix	Aroclor 1248	Aroclor 1254	Aroclor 1260
S-45	3-B	Wipe[d]	BDL	BDL	103,000
S-46	3-B	Sludge	2,770	BDL	448,000
S-48	7-C	Wipe[d]	BDL	19.6	BDL
S-49	8	Sludge	BDL	7.33	BDL
S-50	9	Sludge	BDL	2.49	BDL
S-51	9	Sludge	BDL	6.67	BDL
S-53	12	Wipe[d]	BDL	BDL	61,800
S-54	12	Liquid	BDL	BDL	3,300

Notes:

[a] Samples analyzed by Grace Analytical Laboratories, Inc., in Berkeley, Illinois, under TAT Analytical Services TDD# 5-9009-L01

[b] Results are reported in parts per million (ppm) unless otherwise noted

[c] Below Detection Limit

[d] Reported in micrograms per 100 square centimeters ($\mu g/100\ cm^2$)

Source: Quoted from Weston, 1990.

TABLE 4

SUMMARY OF RERC SAMPLING ANALYTICAL RESULTS

Sample Location	Matrix	Parameter	Results	Units
Building 3 - Electrical Room	Wipe	PCBs	4,413,000	$\mu g/100\ cm^2$
Building 3 - Electrical Room	Wipe	PCBs	1,506,996	$\mu g/100\ cm^2$
Building 9 - Basement Floor	Wipe	PCBs	12,917	$\mu g/100\ cm^2$
Building 14 - Electrical Vault	Wipe	PCBs	161,464	$\mu g/100\ cm^2$
Southwest Tank Farm	Soil	Total Lead	180	ppm
		EP Toxic Lead	0.8	mg/L
Building 7C - Floor	Soil	Total Lead	230	ppm
		EP Toxic Lead	0.8	mg/L
Building 7C - Pits	Soil	Total Lead	200	ppm
		EP Toxic Lead	0.3	mg/L
Railroad Spur	Soil	Total Lead	690	ppm
		EP Toxic Lead	0.4	mg/L
Building 7C - Outside	Resin	Acetone	730	ppm
		Toluene	20	ppm
		Ethylbenzene	190	ppm
		Xylenes	21,000	ppm
		2-Hexanone	17	ppm
		2-Butanone	98	ppm
Main Building[a]	Peeling paint	Total Lead	230	ppm
		EP Toxic Lead	0.3	mg/L

Note:

[a] Sample location not noted in source document

Source: RERC, 1990a.

K3

Soil samples were also analyzed for lead. Lead levels as high as 690 ppm were found in facility soils. EP Toxic levels of lead were found to be as high as 0.8 mg/L in facility soils. Peeling paint was sampled and found to contain a total lead content of 230 ppm. EP Toxic levels of lead were found to be 0.3 mg/L (RERC, 1990a). RERC's findings are summarized in Table 4. RERC noted that "cleanup levels for lead under Superfund and the Illinois State Remedial Action Priority List (SRAPL) program are determined on a facility by facility basis." RERC also noted that "Cleanup levels for lead at Superfund sites have included background levels (roughly 30 ppm lead), risk assessment levels (approximately 200 ppm), and old Centers for Disease Control risk levels (500 ppm)" (RERC, 1990a).

A resin sample collected outside the Cooper's Pit (Building 7-C) was analyzed for volatile organic compounds (VOC). It contained detectable levels of acetone (730 ppm), toluene (20 ppm), ethylbenzene (190 ppm), xylenes (21,000 ppm), 2-hexanone (17 ppm), and 2-butanone (98 ppm) (RERC, 1990a). RERC did not provide the exact location from which this sample was collected, but the only resin that PRC observed outside the Cooper's Pit was located on the west side of the building. RERC's findings are summarized in Table 4.

In June 1990, RERC performed a walk-through and visual inspection of the facility in order to ascertain how much asbestos might be present. During the walk-through, RERC noted liquids seeping out of pipes and onto the ground. RERC called NRC and reported these releases under NRC Case Number 26531 (RERC, 1990c).

RERC collected samples of piping insulation suspected to contain asbestos on July 19, 1990. Samples of piping insulation were taken from fallen pipes near the main entryway to Building 7 and outside of Building 3-B. Samples were analyzed by Testwell Craig Laboratories, Inc., in Chicago, Illinois, and were found to contain between 40 and 50 percent amosite and chrysotile asbestos fibers (RERC, 1990d).

2.5.2 City of Chicago

CFD responded to a fire at the facility on August 19, 1990. The CFD Office of Fire Investigation (OFI) was dispatched to the facility shortly after the fire was reported. The initial incident report of the fire filed by OFI classified the cause of the fire as unknown or suspicious (CFD OFI, 1990a). The fire destroyed large portions of Buildings 13-A, 13-B, and 14, and it caused smoke damage in several other buildings.

K4

VOLUME 1
DRAFT SITE INVESTIGATION REPORT
KILBOURN AVENUE SITE
1330 SOUTH KILBOURN AVENUE
CHICAGO, IL 60623

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JULY 1992

PROJECT NO. 312299

TABLE 3
SUMMARY OF ANALYTICAL RESULTS - CONCRETE SAMPLES
KILBOURN AVENUE SITE
1330 S. KILBOURN AVE.
CHICAGO, ILLINOIS
REFERENCE FIGURES 4 AND 5

Sample Number	Location[1]	Date	Aroclor 1260 (ug/g)[2]
3F-C01-T	Building 3F Top ½ of Core	5-6-92	24000
3F-C01-B	Building 3F Bottom ½ of Core	5-6-92	14
3F-CO2-T	Building 3F Top ½ of Core	5-6-92	43000
3F-C02-B	Building 3F Bottom ½ of Core	5-6-92	1100
14B-C01-T	Building 14, Basement Top ½ of Core	5-5-92	3600
14B-C01-B	Building 14, Basement Bottom ½ of Core	5-5-92	99
14B-C02-T	Building 14, Basement Top ½ of Core	5-5-92	10000
14B-C02-B	Building 14, Basement Bottom ½ of Core	5-5-92	18[3]

[1] Exact locations of samples are provided in Figures 4 and 5.
[2] Micrograms per gram or parts per million.
[3] Estimate based on instrument response below calibration range.

TABLE 4
SUMMARY OF SOIL VAPOR SURVEY
KILBOURN AVENUE SITE
1330 S. KILBOURN AVENUE
CHICAGO, ILLINOIS
REFERENCE FIGURE 6

SURVEY LOCATION[1]	DATE	DEPTH (FEET)	PID READING (ppm)
GSV-01	5-5-92	3.0	12
GSV-02	5-5-92	3.0	90
GSV-03	5-5-92	1.0-3.0	160 - > 2000[2]
GSV-04	5-5-92	3.0	130
GSV-05	5-5-92	2.5	7
GSV-06	5-5-92	3.0	8
GSV-07	5-5-92	3.0	260
GSV-08	5-5-92	3.0	95
GSV-21[3]	5-5-92	—	—
GSV-22[3]	5-5-92	—	—
GSV-23[3]	5-5-92	—	—
GSV-24[3]	5-5-92	—	—
GSV-25	5-5-92	3.0	8
GSV-26[3]	5-5-92	—	—
GSV-27	5-5-92	3.0	2
GSV-28	5-5-92	3.0	0
GSV-29	5-5-92	3.0	68
GSV-30	5-5-92	3.0	1
GSV-31	5-5-92	3.0	6.2
GSV-32	5-5-92	3.0	1.2

1 Exact locations are provided in Figure 6.
2 Initial reading was >2000 ppm but the tube became clogged so the equipment was decontaminated and another reading was taken. The second reading was 160 ppm. For the second reading, the probe was driven to a 3 foot depth but the tubing extended to a 1 foot depth due to a high water table.
3 Soil vapor survey could not be performed at these locations due to surface or subsurface obstructions.

TAB

SUMMARY OF ANALYTICAL RESULTS - SOIL VAPOR SURVEY SOIL SAMPLES
KILBOURN AVENUE SITE
1330 S. KILBOURN AVENUE
CHICAGO, ILLINOIS
REFERENCE FIGURE 6

COMPOUNDS	UNITS	SAMPLING LOCATION[1], DEPTH, AND DATE				
		GSV-03-1 1.5-1.8' 5-8-92	GSV-04-2 1.7-2.0' 5-8-92	GSV-06-3 2.0-2.3' 5-8-92	GSV-07-4 1.5-1.8' 5-8-92	GSV-29-5 1.4-1.7' 5-8-92
Chloroethane	ug/kg[2]	ND50[3]	ND25	ND50	ND50	ND10
Methylene Chloride	ug/kg	10J[4]	5J	11J	8J	2J
Acetone	ug/kg	ND50	ND25	18J	23J	ND10
Carbon Disulfide	ug/kg	11J	5J	13J	67	2J
Chloroform	ug/kg	ND25	ND13	ND25	ND25	ND5
2-Butanone	ug/kg	ND50	ND25	ND50	ND50	ND10
1,2-Dichloroethene	ug/kg	ND25	ND13	ND25	ND25	ND5
1,1,1-Trichloroethane	ug/kg	ND25	22	ND25	ND25	4J
Bromodichloromethane	ug/kg	ND25	ND13	ND25	ND25	ND5
Trichloroethene	ug/kg	ND25	ND13	ND25	ND25	ND5
Benzene	ug/kg	ND25	ND13	ND25	ND25	ND5
2-Hexanone	ug/kg	ND50	ND25	ND50	ND50	ND10
Tetrachloroethene	ug/kg	ND25	ND13	ND25	ND25	ND5
1,1,2,2-Tetrachloroethane	ug/kg	ND25	ND13	ND25	ND25	ND5
Toluene	ug/kg	ND25	7J	ND25	ND25	ND5
Chlorobenzene	ug/kg	ND25	ND13	260	ND25	ND5
Ethylbenzene	ug/kg	ND25	63	64	ND25	ND5
Total Xylenes	ug/kg	ND25	570	270	690	ND5
pH	---	8.03	8.18	8.03	6.94	9.4

[1] Exact locations are provided on Figure 6.
[2] ug/kg or parts per billion.
[3] Not detected at the detection limit indicated.
[4] J indicates an estimated value. This flag is used when mass spectral data indicates t[illegible]sence of the compound, but the result is less than the specified detection limit.

TABLE 6
SUMMARY OF ANALYTICAL RESULTS - WATER AND SLUDGE FROM SUMPS
KILBOURN AVENUE SITE
1330 S. KILBOURN AVE.
CHICAGO, ILLINOIS
REFERENCE FIGURES 7 AND 8

COMPOUNDS	UNITS	SAMPLING LOCATION[1] AND DATE		
		NTF-SUMP-01 NORTH TANK FARM SUMP WATER 5-5-92	5E-SUMP-01 BUILDING 5E SUMP SLUDGE 5-4-92	5E-SUMP-01D (Duplicate) BUILDING 5E SUMP SLUDGE 5-4-92
Chloroethane	ug/L ug/kg[2]	ND50[3]	ND50	ND25
Methylene Chloride	ug/L ug/kg	5JB[4,5]	15J	23
Acetone	ug/L ug/kg	ND50	ND50	25
Carbon Disulfide	ug/L ug/kg	6J	13J	28
Chloroform	ug/L ug/kg	ND25	ND25	ND13
2-Butanone	ug/L ug/kg	ND50	4J	ND25
1,2-Dichloroethene	ug/L ug/kg	ND25	ND25	10J
1,1,1-Trichloroethane	ug/L ug/kg	ND25	ND25	ND13
Bromodichloromethane	ug/L ug/kg	ND25	ND25	ND13
Trichloroethene	ug/L ug/kg	ND25	5J	5J
Benzene	ug/L ug/kg	ND25	8J	11J
2-Hexanone	ug/L ug/kg	ND50	ND50	ND25

[1] Exact locations are provided on Figures 7 and 8.
[2] ug/L for water sample and ug/kg for sludge samples or parts per billion.
[3] Not detected at the detection limit indicated.
[4] J [illegible]ates an estimated value. This flag is used when mass spectral data indicates the presence [illegible]e compound, but the result is less than the specified detection limit.
[5] b [illegible]tes that the compound was detected in the laboratory blank as well as in the sample.

TABLE 6 (Continued)
SUMMARY OF ANALYTICAL RESULTS - WATER AND SLUDGE FROM SUMPS
KILBOURN AVENUE SITE
1330 S. KILBOURN AVE.
CHICAGO, ILLINOIS
REFERENCE FIGURES 7 AND 8

COMPOUNDS	UNITS	SAMPLING LOCATION[1] AND DATE		
		NTF-SUMP-01 NORTH TANK FARM SUMP WATER 5-5-92	5E-SUMP-01 BUILDING 5E SUMP SLUDGE 5-4-92	5E-SUMP-01D (Duplicate) BUILDING 5E SUMP SLUDGE 5-4-92
Tetrachloroethene	ug/L ug/kg	ND25	ND25	ND13
1,1,2,2-Tetrachloroethane	ug/L ug/kg	ND25	ND25	ND13
Toluene	ug/L ug/kg	6J	ND25	ND13
Chlorobenzene	ug/L ug/kg	ND25	ND25	ND13
Ethylbenzene	ug/L ug/kg	44	4000	ND13
Total Xylenes	ug/L ug/kg	2800	850	1500
pH	---	8.0	8.0	8.3

[1] Exact locations are provided on Figures 7 and 8.
[2] ug/L for water sample and ug/kg for sludge samples or parts per billion.
[3] Not detected at the detection limit indicated.
[4] J [illegible]icates an estimated value. This flag is used when mass spectral data indicates the presence [illegible] the compound, but the result is less than the specified detection limit.
[5] [illegible]cates that the compound was detected in the laboratory blank as well as in the sample.

TABLE 2
SUMMARY OF ANALYTICAL RESULTS - PAPER AND WIPE SAMPLES
KILBOURN AVENUE SITE
1330 S. KILBOURN AVE.
CHICAGO, ILLINOIS
REFERENCE FIGURES 4 AND 5

Sample Number	Location[1]	Date	Aroclor 1260 (ug)[2]
3F-PAP1[3]	Building 3F	5-6-92	6500000
3F-WP1	Building 3F	5-6-92	4200000
3F-WP2	Building 3F	5-6-92	270000
3F-WP3	Building 3F	5-6-92	3600
3F-WP4	Building 3F	5-6-92	800[4]
3F-WP 5	Building 3F	5-6-92	500[4]
3F-WP6	Building 3F	5-6-92	2800000[5]
3F-WP7	Building 3F	5-6-92	260000
14B-WP1	Building 14, Basement	5-5-92	210000
14B-WP2	Building 14, Basement	5-5-92	200000
14B-WP3	Building 14, Basement	5-5-92	2600000[5]
14B-WP4	Building 14, Basement	5-5-92	1700000
14B-WP5	Building 14, Basement	5-5-92	290000
14B-WP6	Building 14, Basement	5-5-92	720000
14B-WP7	Building 14, Basement	5-5-92	900000
14B-WP8	Building 14, Basement	5-5-92	2900

[1] Exact locations are provided in Figures 4 and 5.
[2] Micrograms per 100 cm^2 area for all samples except the bulk paper sample 3F-PAP1.
[3] Paper composite.
[4] Estimate based on instrument response below calibration range.
[5] Estimate based on instrument response above calibration range.

TABLE 1
SUMMARY OF ANALYTICAL RESULTS - ASBESTOS SAMPLES
KILBOURN AVENUE SITE
1330 S. KILBOURN AVENUE
CHICAGO, ILLINOIS
REFERENCE FIGURE 3

Sample Number	Location[1]	Date	Type	Percent Total Asbestos
15B-ASB-1	Building 15B	5-8-92	Roofing Tile	ND[2]
15-1-ASB-2	Building 15, 2nd Floor	5-8-92	Pipe Insulation[3]	ND
CP-ASB-3	Cooper's Pit	5-8-92	Roofing Tile	ND
KB-ASB-4	Southwest Corner of Building 7	5-8-92	Kiln Brick	TRACE
RT-ASB-5	Southwest Corner of Building 7	5-8-92	Roofing Shingle	ND
8-3-ASB-6	Building 8, 3rd Floor	5-8-92	Floor Tile[4]	$>1 \leq 3$
8-3-ASB-7	Building 8, 3rd Floor	5-8-92	Ceiling Tile	ND
8-6-ASB-8	Building 8, 6th Floor	5-8-92	Floor Tile[4]	$>3 \leq 5$
8-6-ASB-9	Building 8, 6th Floor	5-8-92	Ceiling Tile	ND
14-2-ASB-10	Building 14, 2nd Floor	5-8-92	Ceiling Tile	ND
14-1-ASB-11	Building 14, 1st Floor	5-8-92	Floor Tile[4]	$>3 \leq 5$

[1] Exact locations are provided in Figure 3.
[2] Not Detected.
[3] The sample of pipe insulation was randomly selected and appeared to be comprised of the same material as other pipe insulation on-site.
[4] The floor tile was a non-friable material.

TABLE 7
SUMMARY OF ANALYTICAL RESULTS - NORTH TANK FARM SOIL SAMPLES
KILBOURN AVENUE SITE
1330 S. KILBOURN AVE.
CHICAGO, ILLINOIS
REFERENCE FIGURE 7

COMPOUNDS	UNITS	SAMPLING LOCATION[1], DEPTH, AND DATE							
		SB-01 0-6" 5-5-92	SB-01 6-8' 5-5-92	SB-02 0-6" 5-5-92	SB-02 6-8' 5-5-92	SB-03 0-6" 5-5-92	SB-03 6-8' 5-5-92	SB-04 0-6" 5-6-92	SB-04 6-8' 5-6-92
Chloroethane	ug/kg[2]	ND10[3]	ND10	ND10	ND10	ND10	ND10	ND25	ND25
Methylene Chloride	ug/kg	4J[4]	2JB[5]	3J	3JB	2JB	17B	18	44B
Acetone	ug/kg	ND10	ND10	ND10	ND10	ND10	ND10	ND25	ND25
Carbon Disulfide	ug/kg	4J	3J	3J	4J	3J	3J	27	29
Chloroform	ug/kg	ND5	ND5	ND5	ND5	ND5	ND5	ND13	ND13
2-Butanone	ug/kg	ND10	4J	ND10	ND10	ND10	33	ND25	ND25
1,2-Dichloroethene	ug/kg	ND5	ND5	ND5	ND5	ND5	ND5	ND13	ND13
1,1,1-Trichloroethane	ug/kg	ND5	ND5	ND5	ND5	ND5	ND5	ND13	ND13
Bromodichloromethane	ug/kg	ND5	ND5	ND5	ND5	ND5	ND5	ND13	ND13
Trichloroethene	ug/kg	ND5	ND5	ND5	ND5	ND5	ND5	ND13	ND13
Benzene	ug/kg	ND5	ND5	ND5	ND5	ND5	ND5	ND13	ND13
2-Hexanone	ug/kg	ND10	ND10	ND10	ND10	ND10	ND10	ND25	ND25
Tetrachloroethene	ug/kg	ND5	ND5	ND5	ND5	ND5	ND5	ND13	ND13
1,1,2,2-Tetrachloroethane	ug/kg	ND5	ND5	ND5	ND5	ND5	ND5	ND13	ND13
Toluene	ug/kg	340	110	130	180	12	5J	460	500
Chlorobenzene	ug/kg	ND5	ND5	ND5	ND5	ND5	ND5	ND13	ND13
Ethylbenzene	ug/kg	1J	ND5	1J	ND5	ND5	ND5	ND13	ND13
Total Xylenes	ug/kg	4J	3J	2J	2J	ND	2J	ND13	35
pH	--	7.7	8.1	7.5	8.1	7.4	7.9	7.83	7.69

[1] Exact locations are provided in Figure 7.
[2] ug/kg or parts per billion.
[3] Not detected at the detection limit indicated.
[4] J indicates an estimated value. This flag is used when mass spectral data indicates the presence of the compound, but the result is less than the specified detection limit.
[5] B indicates that the compound was detected in the laboratory blank as well as in the sample.
[6] E indicates that the compound concentrations exceeded the scale of the gas chromatograph. The sample was diluted to bring the detection peaks within measurable scale

TABLE 7 (continued)
SUMMARY OF ANALYTICAL RESULTS - NORTH TANK FARM SOIL SAMPLES
KILBOURN AVENUE SITE
1330 S. KILBOURN AVE.
CHICAGO, ILLINOIS
REFERENCE FIGURE 7

COMPOUNDS	UNITS	SAMPLING LOCATION[1], DEPTH, AND DATE								
		SB-05 0-6" 5-6-92	SB-05 6-8' 5-6-92	SB-06 0-6" 5-6-92	SB-06 6-8' 5-6-92	SB-07 0-6" 5-6-92	SB-07 0-6"DUP 5-6-92	SB-07 6-8' 5-6-92	SB-08 0-6" 5-6-92	SB-08 6-8' 5-6-92
Chloroethane	ug/kg[2]	ND25[3]	ND50	ND25	ND50	ND25	ND25	ND25	ND25	ND50
Methylene Chloride	ug/kg	27B[5]	49	14	17J[4]	45	39	9JB	22	34
Acetone	ug/kg	24J	ND50	ND25	19J	ND25	ND25	ND25	ND25	ND50
Carbon Disulfide	ug/kg	23	37	8J	ND25	28	29	5J	20	50
Chloroform	ug/kg	ND13	ND25	ND13	ND25	ND13	ND13	ND13	ND13	ND25
2-Butanone	ug/kg	19J	ND50	ND25	ND50	ND25	ND25	ND25	8J	ND50
1,2-Dichloroethene	ug/kg	ND13	ND25	ND13	ND25	ND13	ND13	ND13	ND13	ND25
1,1,1-Trichloroethane	ug/kg	5J	13J	ND13	ND25	ND13	ND13	ND13	7J	ND25
Bromodichloromethane	ug/kg	ND13	ND25	ND13	ND25	ND13	ND13	ND13	ND13	ND25
Trichloroethene	ug/kg	ND13	ND25	ND13	ND25	ND13	ND13	ND13	ND13	ND25
Benzene	ug/kg	ND13	ND25	ND13	ND25	ND13	ND13	ND13	ND13	ND25
2-Hexanone	ug/kg	ND25	ND50	ND25	ND50	ND25	ND25	ND25	ND25	ND50
Tetrachloroethene	ug/kg	ND13	20J	ND13	ND25	ND13	ND13	ND13	ND13	ND25
1,1,2,2-Tetrachloroethane	ug/kg	ND13	20J	ND13	ND25	ND13	ND13	ND13	ND13	ND25
Toluene	ug/kg	370	720	340	1950E[6]	150	79	100	33	880
Chlorobenzene	ug/kg	ND13	ND25	ND13	ND25	ND13	ND13	ND13	ND13	ND25
Ethylbenzene	ug/kg	ND13	ND25	ND13	75	3J	3J	ND13	ND13	ND25
Total Xylenes	ug/kg	7J	41	ND13	2800E	ND13	ND13	ND13	ND13	ND25
pH	---	7.75	7.48	7.22	7.72	7.96	7.08	NA[7]	7.70	8.32

[1] Exact locations are provided in Figure 7.
[2] ug/kg or parts per billion.
[3] Not detected at the detection limit indicated.
[4] J indicates an estimated value. This flag is used when mass spectral data indicates the presence of the compound, but the result is less than the specified detection limit.
[5] B indicates that the compound was detected in the laboratory blank as well as in the sampl
[6] E indicates that the compound concentrations exceeded the scale of the gas chromatograph. e sample was diluted to bring the detection peaks within measurable scale.

TABLE 8
SUMMARY OF ANALYTICAL RESULTS - SOUTH TANK FARM SOIL SAMPLES
KILBOURN AVENUE SITE
1330 S. KILBOURN AVE.
CHICAGO, ILLINOIS
REFERENCE FIGURE 8

COMPOUNDS	UNITS	SAMPLING LOCATION[1], DEPTH, AND DATE							
		SB-09 0-6" 5-7-92	SB-09 6-8' 5-7-92	SB-10 0-6" 5-7-92	SB-10 4-6' 5-7-92	SB-10 4-6'DUP 5-7-92	SB-10 6-8' 5-7-92	SB-11 0-6" 5-6-92	SB-11 4-6' 5-6-92
Chloroethane	ug/kg[2]	ND50[3]	ND50	ND50	ND50	ND50	ND50	ND10	ND50
Methylene Chloride	ug/kg	13J[4]	12J	14J	16J	10J	16JB[5]	6B	26
Acetone	ug/kg	ND50	ND50	ND50	ND50	ND50	ND50	ND10	ND50
Carbon Disulfide	ug/kg	5J	6J	7J	7J	8J	7J	3J	33
Chloroform	ug/kg	23J	ND25	ND25	ND25	23J	23J	ND5	ND25
2-Butanone	ug/kg	ND50	ND50	ND50	ND50	ND50	ND50	ND10	ND50
1,2-Dichloroethene	ug/kg	ND25	ND25	ND25	ND25	ND25	ND25	ND5	ND25
1,1,1-Trichloroethane	ug/kg	ND25	ND25	ND25	ND25	ND25	ND25	8	ND25
Bromodichloromethane	ug/kg	ND25	ND25	ND25	ND25	5J	ND25	ND5	ND25
Trichloroethene	ug/kg	ND25	ND25	ND25	ND25	ND25	ND25	ND5	ND25
Benzene	ug/kg	ND25	ND25	ND25	ND25	ND25	ND25	ND5	ND25
2-Hexanone	ug/kg	ND50	ND50	ND50	ND50	ND50	ND50	ND10	ND50
Tetrachloroethene	ug/kg	ND25	ND25	ND25	ND25	ND25	ND25	ND5	ND25
1,1,2,2-Tetrachloroethane	ug/kg	ND25	ND25	ND25	ND25	ND25	ND25	ND5	ND25
Toluene	ug/kg	850	190	980	230	86	1400	ND5	ND25
Chlorobenzene	ug/kg	ND25	ND25	ND25	ND25	ND25	ND25	360	9J
Ethylbenzene	ug/kg	ND25	ND25	ND25	ND25	ND25	ND25	ND5	ND25
Total Xylenes	ug/kg	ND25	ND25	ND25	ND25	ND25	ND25	ND5	ND25
pH	---	8.67	8.14	8.51	8.38	8.51	8.52	7.53	7.55

[1] Exact locations are provided in Figure 8.
[2] ug/kg or parts per billion.
[3] Not detected at the detection limit indicated.
[4] J indicates an estimated value. This flag is used when mass spectral data indicates the presence of the compound, but the result is less than the specified detection limit.
[5] B indicates that the compound was detected in the laboratory blank as well as in the sample.

exceeded the scale

TABLE 8 (continued)
SUMMARY OF ANALYTICAL RESULTS - SOUTH TANK FARM SOIL SAMPLES
KILBOURN AVENUE SITE
1330 S. KILBOURN AVE.
CHICAGO, ILLINOIS
REFERENCE FIGURE 8

COMPOUNDS	UNITS	SAMPLING LOCATION[1], DEPTH, AND DATE							
		SB-11 6-8' 5-6-92	SB-12 0-6" 5-7-92	SB-12 6-8' 5-7-92	SB-13 0-6" 5-6-92	SB-13 4-6' 5-6-92	SB-13 6-8' 5-6-92	SB-14 0-6" 5-6-92	SB-14 4-6' 5-6-92
Chloroethane	ug/kg[2]	ND50[3]	ND50	ND50	ND25	ND12500	ND12500	ND10	ND25
Methylene Chloride	ug/kg	31	15J[4]	18J	4JB[5]	ND6250	1372J	4J	12JB
Acetone	ug/kg	ND50	ND50	ND50	ND25	ND12500	ND12500	ND10	ND25
Carbon Disulfide	ug/kg	35	7J	7J	20	ND6250	ND6250	3J	8J
Chloroform	ug/kg	ND25	ND25	ND25	ND13	ND6250	ND6250	ND5	ND13
2-Butanone	ug/kg	ND50	ND50	ND50	ND25	ND12500	ND12500	ND10	ND25
1,2-Dichloroethene	ug/kg	ND25	ND25	ND25	ND13	ND6250	ND6250	ND5	ND13
1,1,1-Trichloroethane	ug/kg	ND25	ND25	ND25	ND13	ND6250	ND6250	ND5	ND13
Bromodichloromethane	ug/kg	ND25	ND25	ND25	ND13	ND6250	ND6250	ND5	ND13
Trichloroethene	ug/kg	ND25	ND25	ND25	ND13	ND6250	ND6250	ND5	ND13
Benzene	ug/kg	ND25	ND25	ND25	ND13	ND6250	ND6250	ND5	ND13
2-Hexanone	ug/kg	ND50	ND50	ND50	ND25	ND12500	ND12500	ND10	ND25
Tetrachloroethene	ug/kg	ND25	ND25	ND25	ND13	ND6250	ND6250	ND5	ND13
1,1,2,2-Tetrachloroethane	ug/kg	ND25	ND25	ND25	ND13	ND6250	ND6250	ND5	ND13
Toluene	ug/kg	2500E[6]	740	1094	430	ND2650	ND6250	230	170
Chlorobenzene	ug/kg	ND25	ND25	ND25	ND13	ND6250	ND6250	ND5	ND13
Ethylbenzene	ug/kg	ND25	ND25	ND25	ND13	ND6250	ND6250	ND5	ND13
Total Xylenes	ug/kg	8J	ND25	ND25	ND13	ND6250	ND6250	ND5	ND13
pH	---	7.67	8.42	8.23	7.64	7.[illegible]4	7.95	7.82	8.12

[1] Exact locations are provided in Figure 8.
[2] ug/kg or parts per billion.
[3] Not detected at the detection limit indicated.
indicates an estimated value. This flag is used when mass spectral data indicates the pr[illegible] of the compound, but the result is less than the specified detection limit.
B indicates that the compound was detected in the laboratory blank as well as in the sampl[illegible]

TABLE 8 (continued)
SUMMARY OF ANALYTICAL RESULTS - SOUTH TANK FARM SOIL SAMPLES
KILBOURN AVENUE SITE
1330 S. KILBOURN AVE.
CHICAGO, ILLINOIS
REFERENCE FIGURE 8

COMPOUNDS	UNITS	SAMPLING LOCATION[1], DEPTH, AND DATE							
		SB-14 6-8' 5-6-92	SB-15 0-6" 5-6-92	SB-15 0-6" DUP 5-6-92	SB-15 4-6' 5-6-92	SB-15 6-8' 5-6-92	SB-16 0-6" 5-6-92	SB-16 4-6' 5-6-92	SB-16 6-8' 5-6-92
Chloroethane	ug/kg[2]	ND25[3]	ND25	ND25	ND10	ND25	ND50	ND12500	ND12500
Methylene Chloride	ug/kg	10J[4]	26	24	ND5	7J	51	1700J	ND6250
Acetone	ug/kg	ND25	ND25	ND25	ND10	7J	ND50	ND12500	ND12500
Carbon Disulfide	ug/kg	9J	24	21	3J	9J	42	ND6250	ND6250
Chloroform	ug/kg	ND13	ND13	ND13	ND5	ND13	ND25	ND6250	ND6250
2-Butanone	ug/kg	ND25	ND25	ND25	ND10	ND25	ND50	ND12500	ND12500
1,2-Dichloroethene	ug/kg	ND13	ND13	ND13	ND5	ND13	ND25	ND6250	ND6250
1,1,1-Trichloroethane	ug/kg	ND13	7J	7J	ND5	ND13	12J	ND6250	ND6250
Bromodichloromethane	ug/kg	ND13	ND13	ND13	ND5	ND13	ND25	ND6250	ND6250
Trichloroethene	ug/kg	ND13	ND13	ND13	ND5	ND13	ND25	ND6250	ND6250
Benzene	ug/kg	ND13	ND13	ND13	ND5	ND13	ND25	ND6250	ND6250
2-Hexanone	ug/kg	ND25	ND25	ND25	ND10	ND25	ND50	ND12500	ND12500
Tetrachloroethene	ug/kg	ND13	ND13	ND13	ND5	ND13	ND25	ND6250	ND6250
1,1,2,2-Tetrachloroethane	ug/kg	ND13	ND13	ND13	ND5	ND13	ND25	ND6250	ND6250
Toluene	ug/kg	ND13	337	251	42	710	670	ND6250	2900J
Chlorobenzene	ug/kg	1500	ND13	ND13	ND5	ND13	ND25	ND6250	ND6250
Ethylbenzene	ug/kg	ND13	ND13	ND13	ND5	ND13	ND25	ND6250	ND6250
Total Xylenes	ug/kg	ND13	5J	ND13	ND5	ND13	ND25	ND6250	ND6250
pH	---	7.54	7.89	7.74	7.48	8.08	8.10	7.76	7.21

[1] Exact locations are provided in Figure 8.
[2] ug/kg or parts per billion.
[3] Not detected at the detection limit indicated.
[4] J indicates an estimated value. This flag is used when mass spectral data indicates the presence of the compound, but the result is less than the specified detection limit.
[5] B indicates that the compound was detected in the laboratory blank as well as in the sample.
[6] E indicates that the compound concentrations exceeded the scale of the gas chromatograph. The sample was diluted to bring the determination results within measurable scale.

TABLE 9
SUMMARY OF ANALYTICAL RESULTS - COOPER'S PIT SOIL SAMPLES
KILBOURN AVENUE SITE
1330 S. KILBOURN AVE.
CHICAGO, ILLINOIS
REFERENCE FIGURE 9

COMPOUNDS	UNITS	SAMPLING LOCATION[1], DEPTH, AND DATE							
		SB-17 0-6" 5-7-92	SB-17 3.5-4.5' 5-7-92	SB-17 9-10' 5-7-92	SB-18 0-6" 5-7-92	SB-18 5-6' 5-7-92	SB-18 6-12' 5-7-92	SB-19 0-6" 5-7-92	SB-19 4-6' 5-7-92
Chloroethane	ug/kg[2]	ND50[3]	ND50	ND50	ND50	ND2500	ND12500	ND10	ND50
Methylene Chloride	ug/kg	16J[4]	10J	16J	12J	330J	2800J	ND5	18J
Acetone	ug/kg	ND50	ND50	ND50	ND50	ND2500	ND12500	ND10	ND50
Carbon Disulfide	ug/kg	6J	7J	15J	ND25	ND1250	ND6250	ND5	22J
Chloroform	ug/kg	ND25	ND25	ND25	ND25	ND1250	ND6250	ND5	ND25
2-Butanone	ug/kg	ND50	ND50	ND50	ND50	ND2500	ND12500	ND10	ND50
1,2-Dichloroethene	ug/kg	ND25	ND25	ND25	ND25	ND1250	ND6250	ND5	ND25
1,1,1-Trichloroethane	ug/kg	ND25	ND25	ND25	ND25	ND1250	ND6250	ND5	ND25
Bromodichloromethane	ug/kg	ND25	ND25	ND25	ND25	ND1250	ND6250	ND5	ND25
Trichloroethene	ug/kg	ND25	ND25	ND25	ND25	ND1250	ND6250	ND5	ND25
Benzene	ug/kg	ND25	ND25	ND25	ND25	ND1250	ND6250	ND5	ND25
2-Hexanone	ug/kg	ND50	ND50	ND50	7J	ND2500	ND12500	ND10	ND50
Tetrachloroethene	ug/kg	ND25	ND25	ND25	ND25	ND1250	ND6250	ND5	ND25
1,1,2,2-Tetrachloroethane	ug/kg	ND25	ND25	ND25	ND25	ND1250	ND6250	ND5	ND25
Toluene	ug/kg	1400	1100	3000	1700	ND1250	ND6250	6	ND25
Chlorobenzene	ug/kg	ND25	ND25	ND25	ND25	ND1250	ND6250	ND5	ND25
Ethylbenzene	ug/kg	ND25	ND25	97	ND25	ND1250	64000	ND5	400
Total Xylenes	ug/kg	ND25	ND25	140	ND25	24000	320000	ND5	1100
pH	---	8.02	7.36	8.13	8.08	8.47	8.22	8.08	8.02

[1] Exact locations are provided on Figure 9.
[2] ug/kg or parts per billion.
[3] Not detected at the detection limit indicated.
[4] J indicates an estimated value. This flag is used when mass spectral data indicates the presen he compound, but the result is less than the specified detection limit.
[5] B indicates that the compound was detected in the laboratory blank as well as in the sample.

TABLE 9 (continued)
SUMMARY OF ANALYTICAL RESULTS - COOPER'S PIT SOIL SAMPLES
KILBOURN AVENUE SITE
1330 S. KILBOURN AVE.
CHICAGO, ILLINOIS
REFERENCE FIGURE 9

COMPOUNDS	UNITS	SAMPLING LOCATION[1], DEPTH, AND DATE							
		SB-19 6-8' 5-7-92	SB-20 0-6" 5-7-92	SB-20 5-7' 5-8-92	SB-20 7-9' 5-8-92	SB-21 0-6" 5-8-92	SB-21 3.5' 5-8-92	SB-21 7-9' 5-8-92	SB-22 0-6" 5-11-92
Chloroethane	ug/kg[2]	ND1250[3]	ND250	ND2500	ND2500	ND1250	ND4160	ND2500	ND10
Methylene Chloride	ug/kg	130	8J[4]	ND1250	ND1250	ND625	350J	310J	30B[5]
Acetone	ug/kg	ND1250	ND250	ND2500	ND2500	ND1250	ND4160	ND2500	ND10
Carbon Disulfide	ug/kg	ND625	6J	ND1250	ND1250	ND625	ND2080	ND1250	2JB
Chloroform	ug/kg	ND625	ND125	ND1250	ND1250	ND625	ND2080	ND1250	ND5
2-Butanone	ug/kg	ND1250	ND250	ND2500	ND2500	ND1250	ND4160	ND2500	ND10
1,2-Dichloroethene	ug/kg	ND625	ND125	ND1250	ND1250	ND625	ND2080	ND1250	ND5
1,1,1-Trichloroethane	ug/kg	ND625	3J	ND1250	ND1250	ND625	ND2080	ND1250	ND5
Bromodichloromethane	ug/kg	ND625	ND125	ND1250	ND1250	ND625	ND2080	ND1250	ND5
Trichloroethene	ug/kg	ND625	ND125	ND1250	ND1250	ND625	ND2080	ND1250	ND5
Benzene	ug/kg	ND625	ND125	ND1250	ND1250	ND625	ND2080	ND1250	ND5
2-Hexanone	ug/kg	ND1250	ND250	ND2500	ND2500	ND1250	ND4160	ND2500	ND10
Tetrachloroethene	ug/kg	ND625	ND125	ND1250	ND1250	ND625	ND2080	ND1250	ND5
1,1,2,2-Tetrachloroethane	ug/kg	ND625	ND125	ND1250	ND1250	ND625	ND2080	ND1250	ND5
Toluene	ug/kg	ND625	ND125	1490	1400	740	2200	990J	2J
Chlorobenzene	ug/kg	ND625	ND125	ND1250	ND1250	ND625	ND2080	ND1250	ND5
Ethylbenzene	ug/kg	ND625	ND125	ND1250	ND1250	ND625	88000	26000	ND5
Total Xylenes	ug/kg	ND625	ND125	ND1250	ND1250	ND625	720000	110000	ND5
pH	---	8.17	8.10	8.32	10.09	7.74	7.92	7.24	7.88

[1] Exact locations are provided on Figure 9.
[2] ug/kg or parts per billion.
[3] Not detected at the detection limit indicated.
[4] J indicates an estimated value. This flag is used when mass spectral data indicates the presence of the compound, but the result is less than the specified detection limit.
[5] B indicates that the compound was detected in the laboratory blank as well as in the sample.

TABLE 9 (continued)
SUMMARY OF ANALYTICAL RESULTS - COOPER'S PIT SOIL SAMPLES
KILBOURN AVENUE SITE
1330 S. KILBOURN AVE.
CHICAGO, ILLINOIS
REFERENCE FIGURE 9

COMPOUNDS	UNITS	SAMPLING LOCATION[1], DEPTH, AND DATE							
		SB-22 2-4' 5-11-92	SB-22 6-8' 5-11-92	SB-23 0-6" 5-8-92	SB-23 0-6"DUP 5-8-92	SB-23 3.5' 5-8-92	SB-23 7-9' 5-8-92	SB-24 0-6" 5-11-92	SB-24 0-6" DUP 5-11-92
Chloroethane	ug/kg[2]	ND2500[3]	ND1250	ND1250	ND50	180	300J[4]	ND10	ND10
Methylene Chloride	ug/kg	270JB[5]	200JB	150J	10J	ND60	ND1250	2JB	3JB
Acetone	ug/kg	ND2500	ND1250	ND1250	ND50	ND120	ND2500	ND10	ND10
Carbon Disulfide	ug/kg	ND1250	ND625	ND625	6J	ND60	ND1250	2JB	3JB
Chloroform	ug/kg	ND1250	ND625	ND625	ND25	ND60	ND1250	ND5	ND5
2-Butanone	ug/kg	ND2500	ND1250	ND1250	ND50	ND120	ND2500	ND10	ND10
1,2-Dichloroethene	ug/kg	ND1250	ND625	ND625	ND25	ND60	ND1250	ND5	ND5
1,1,1-Trichloroethane	ug/kg	ND1250	ND625	ND625	12J	ND60	ND1250	ND5	ND5
Bromodichloromethane	ug/kg	ND1250	ND625	ND625	ND25	ND60	ND1250	ND5	ND5
Trichloroethene	ug/kg	ND1250	ND625	ND625	ND25	ND60	ND1250	ND5	ND5
Benzene	ug/kg	ND1250	ND625	ND625	ND25	ND60	ND1250	ND5	ND5
2-Hexanone	ug/kg	ND2500	ND1250	ND1250	ND50	ND120	ND2500	ND10	ND10
Tetrachloroethene	ug/kg	ND1250	ND625	ND625	ND25	ND60	ND1250	ND5	ND5
1,1,2,2-Tetrachloroethane	ug/kg	ND1250	ND625	ND625	ND25	ND60	ND1250	ND5	ND5
Toluene	ug/kg	400J	1400	ND625	ND25	1040	300J	3J	3J
Chlorobenzene	ug/kg	ND1250	ND625	ND625	ND25	ND60	ND1250	ND5	ND5
Ethylbenzene	ug/kg	ND1250	300J	ND625	ND25	ND60	ND1250	ND5	1J
Total Xylenes	ug/kg	700J	1600	320J	ND25	160	ND1250	ND5	9
pH	---	7.75	8.05	8.34	8.50	7.55	8.28	8.44	NA[6]

[1] Exact locations are provided on Figure 9.
[2] ug/kg or parts per billion.
[3] Not detected at the detection limit indicated.
[4] J indicates an estimated value. This flag is used when mass spectral data indicates the prese the compound, but the result is less than the specified detection limit.
[5] B indicates that the compound was detected in the laboratory blank as well as in the sample.

TABLE 9 (continued)
SUMMARY OF ANALYTICAL RESULTS - COOPER'S PIT SOIL SAMPLES
KILBOURN AVENUE SITE
1330 S. KILBOURN AVE.
CHICAGO, ILLINOIS
REFERENCE FIGURE 9

COMPOUNDS	UNITS	SAMPLING LOCATION[1], DEPTH, AND DATE								
		SB-24 2-4' 5-11-92	SB-24 6-8' 5-11-92	SB-25 0-6" 5-11-92	SB-25 2-4' 5-11-92	SB-25 6-8' 5-11-92	SB-26 0-6" 5-11-92	SB-26 0-6"DUP 5-11-92	SB-26 2-4' 5-11-92	SB-26 6-8' 5-11-92
Chloroethane	ug/kg[2]	ND50[3]	ND2500	ND10	ND10	ND50	ND10	ND10	ND10	ND2500
Methylene Chloride	ug/kg	ND25	340JB[4,5]	3JB	4JB	12JB	2J	2JB	2JB	480JB
Acetone	ug/kg	ND50	ND2500	ND10	ND10	ND50	ND10	ND10	ND10	ND2500
Carbon Disulfide	ug/kg	ND25	ND1250	3JB	2JB	16JB	3J	3JB	3JB	ND1250
Chloroform	ug/kg	ND25	ND1250	ND5	ND5	ND25	ND5	ND5	ND5	ND1250
2-Butanone	ug/kg	ND50	ND2500	ND10	ND10	ND50	5J	ND10	ND10	ND2500
1,2-Dichloroethene	ug/kg	ND25	ND1250	ND5	ND5	ND25	ND5	ND5	ND5	ND1250
1,1,1-Trichloroethane	ug/kg	ND25	ND1250	ND5	ND5	ND25	ND5	ND5	ND5	ND1250
Bromodichloromethane	ug/kg	ND25	ND1250	ND5	ND5	ND25	ND5	ND5	ND5	ND1250
Trichloroethene	ug/kg	ND25	ND1250	ND5	ND5	ND25	ND5	ND5	ND5	ND1250
Benzene	ug/kg	ND25	ND1250	ND5	ND5	ND25	ND5	ND5	ND5	ND1250
2-Hexanone	ug/kg	ND50	ND2500	ND10	ND10	ND50	ND10	ND10	2J	ND2500
Tetrachloroethene	ug/kg	ND25	ND1250	ND5	ND5	ND25	ND5	ND5	ND5	ND1250
1,1,2,2-Tetrachloroethane	ug/kg	ND25	ND1250	ND5	ND5	ND25	ND5	ND5	ND5	ND1250
Toluene	ug/kg	ND25	3400	2J	10	120	ND5	ND5	ND5	670J
Chlorobenzene	ug/kg	ND25	ND1250	ND5	ND5	ND25	ND5	ND5	ND5	ND1250
Ethylbenzene	ug/kg	140	10000	ND5	ND5	ND25	ND5	ND5	ND5	2200
Total Xylenes	ug/kg	ND25	87000	1J	2J	42	ND5	ND5	1J	67000
pH	—	8.06	8.31	8.06	8.06	8.77	12.06	11.68	9.05	10.43

[1] Exact locations are provided on Figure 9.
[2] ug/kg or parts per billion.
[3] Not detected at the detection limit indicated.
[4] J indicates an estimated value. This flag is used when mass spectral data indicates the presence of the compound, but the result is less than the specified detection limit.
[5] B indicates that the compound was detected in the laboratory blank as well as in the sample.

TABLE 10
SUMMARY OF ANALYTICAL RESULTS
TRIP BLANKS AND RINSATE
KILBOURN AVENUE SITE
1330 S. KILBOURN AVE.
CHICAGO, ILLINOIS

COMPOUNDS	UNITS	TB-01 5-5-92	TB-02 5-6-92	TB-03 5-7-92	RINSATE 01[1] 5-8-92
Chloroethane	ug/L[2]	ND50[3]	ND10	ND10	ND10
Methylene Chloride	ug/L	11J[4]	3J	2J	1JB
Acetone	ug/L	ND50	ND10	ND10	ND10
Carbon Disulfide	ug/L	ND25	2J	ND5	1J
Chloroform	ug/L	ND25	ND5	ND5	11
2-Butanone	ug/L	ND50	ND10	ND10	ND10
1,2-Dichloroethene	ug/L	ND25	ND5	ND5	ND5
1,1,1-Trichloroethane	ug/L	ND25	ND5	ND5	4J
Bromodichloromethane	ug/L	ND25	ND5	ND5	ND5
Trichloroethene	ug/L	ND25	ND5	ND5	ND5
Benzene	ug/L	ND25	ND5	ND5	ND5
2-Hexanone	ug/L	ND50	ND10	ND10	ND10
Tetrachloroethene	ug/L	ND25	ND5	ND5	ND5
1,1,2,2-Tetrachloroethane	ug/L	ND25	ND5	ND5	ND5
Toluene	ug/L	ND25	ND5	ND5	ND5
Chlorobenzene	ug/L	ND25	ND5	ND5	ND5
Ethylbenzene	ug/L	ND25	ND5	ND5	ND5
Total Xylenes	ug/L	1J	ND5	ND5	ND5

[1] Collected by pouring deionized water over soil boring and sampling equipment used to advance and sample SB01 through SB26.
[2] ug/L or parts per billion.
[3] Not detected at the detection limit indicated.
[4] *J* indicates an estimated value. This flag is used when mass spectral data indicates the presence of the compound, but the result is less than the specified detection limit.

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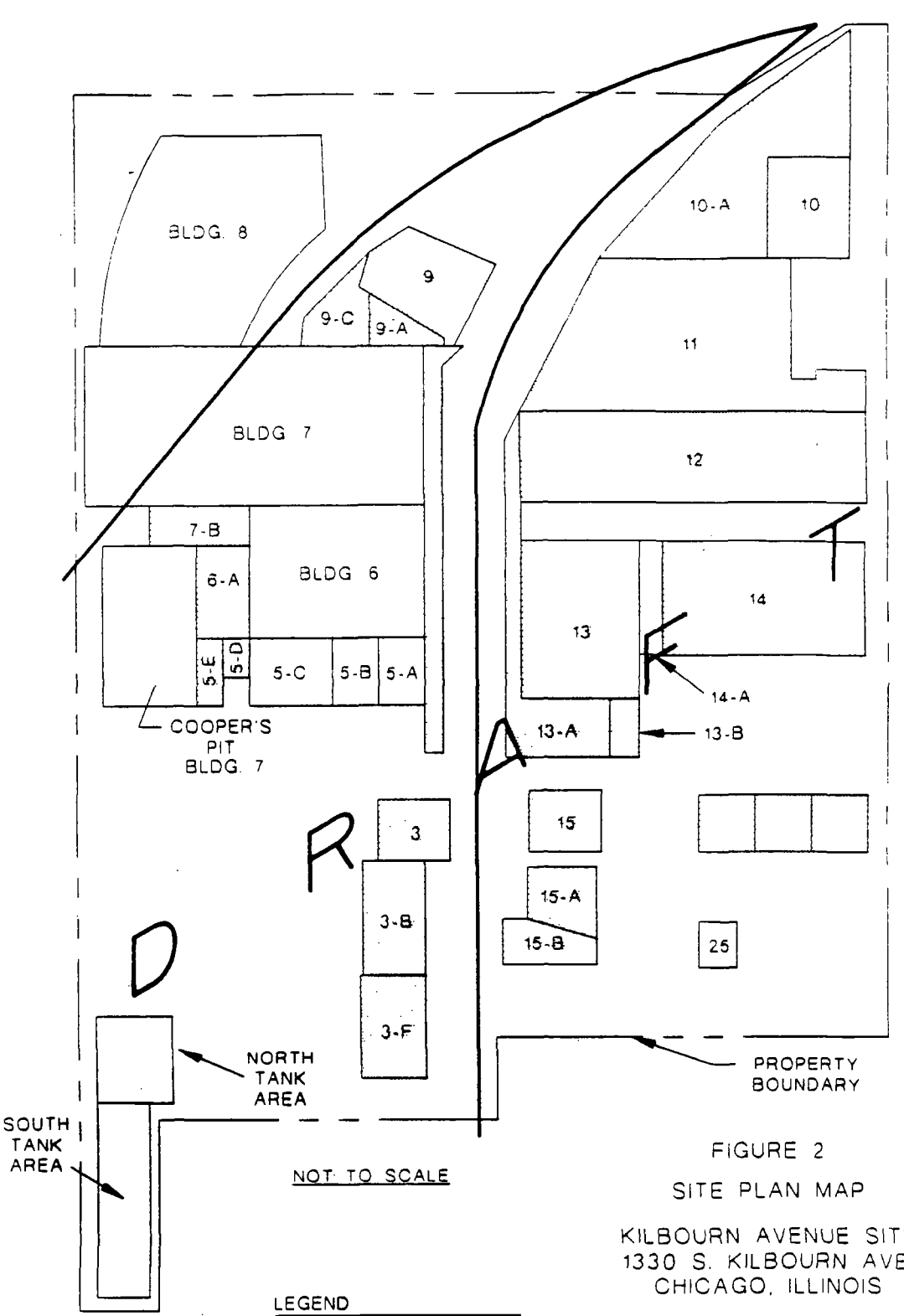

FIGURE 2

SITE PLAN MAP

KILBOURN AVENUE SITE
1330 S. KILBOURN AVE
CHICAGO, ILLINOIS

PREPARED FOR

THE VALSPAR CORPORATION

LEGEND

- TANK CLOSURE AREAS
- BUILDINGS WITHOUT REGULATED TANKS
- RAILROAD

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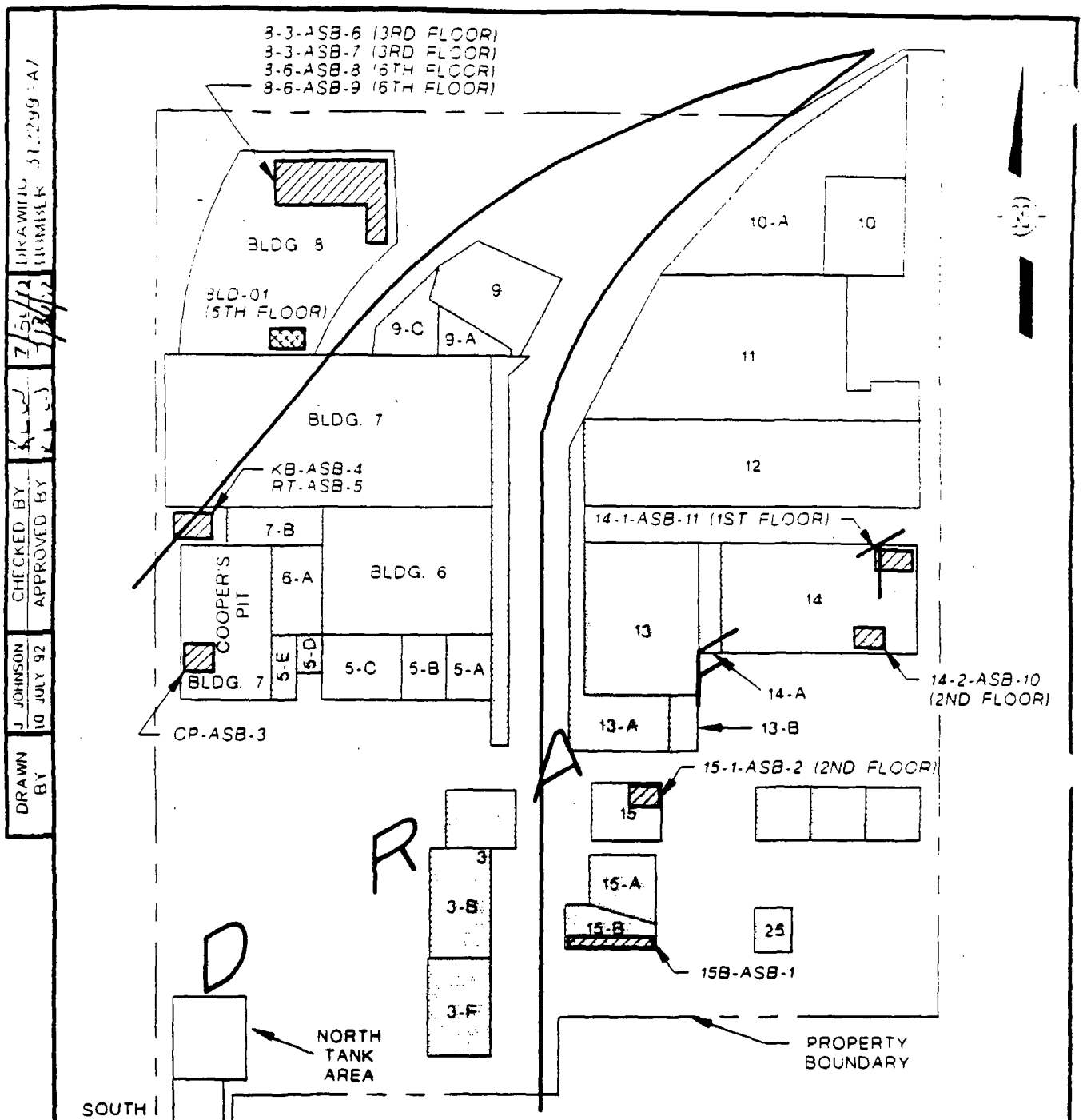

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LEGEND

- TANK CLOSURE AREAS
- BUILDINGS WITHOUT REGULATED TANKS
- RAILROAD
- ASBESTOS SAMPLING LOCATIONS
- DUST COLLECTOR SAMPLING LOCATION
- 15-1-ASB-2 ASBESTOS SAMPLE NUMBER
- 8LD-01 DUST COLLECTOR SAMPLE NUMBER

FIGURE 3

DUST COLLECTOR AND ASBESTOS SAMPLING LOCATIONS

KILBOURN AVENUE SITE
1330 S. KILBOURN AVE.
CHICAGO, ILLINOIS

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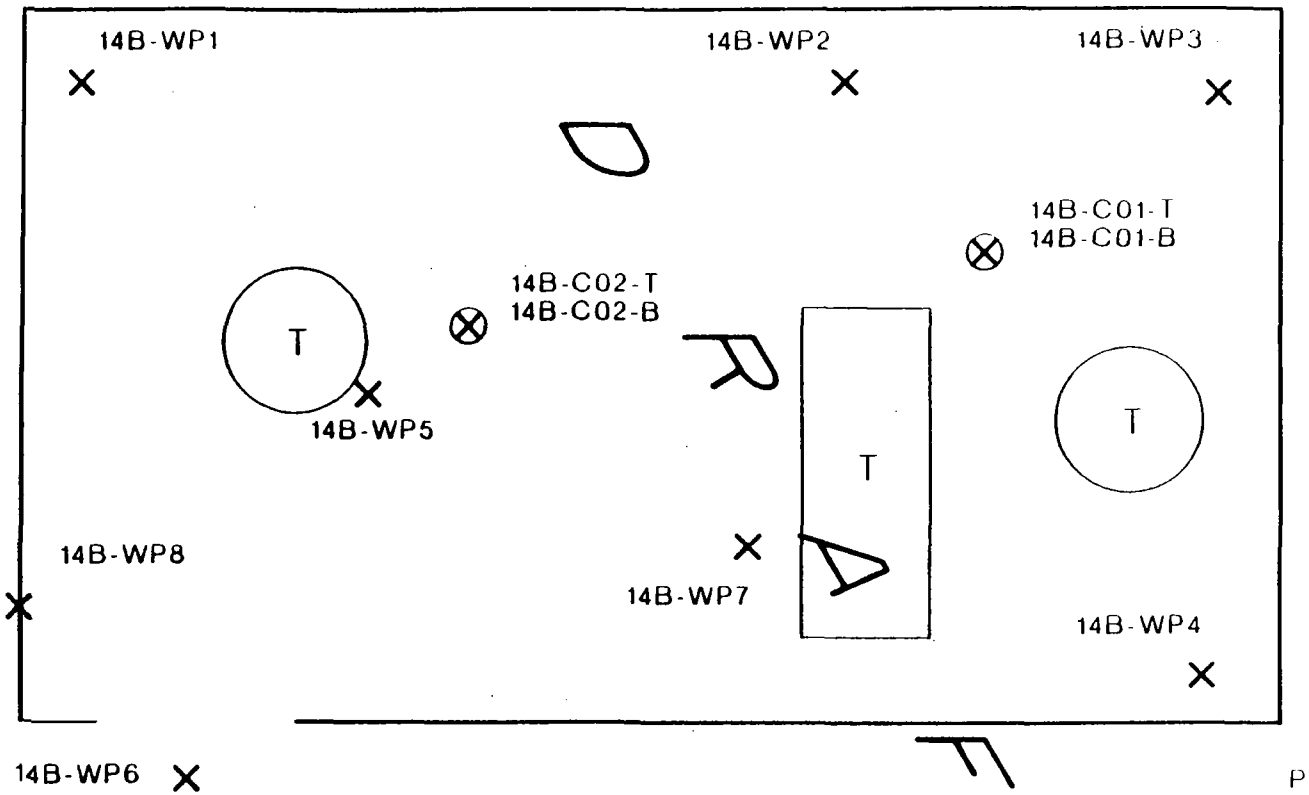

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ELECTRIC VAULT IN BUILDING 14-BASEMENT

FIGURE 4

PCB SAMPLING LOCATIONS
BUILDING 14-BASEMENT
KILBOURN AVENUE SITE
1330 S KILBOURN AVE
CHICAGO, ILLINOIS

PREPARED FOR

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LEGEND

⊗ : CONCRETE CORE SAMPLE LOCATION

× : WIPE SAMPLE LOCATION

T : TRANSFORMER

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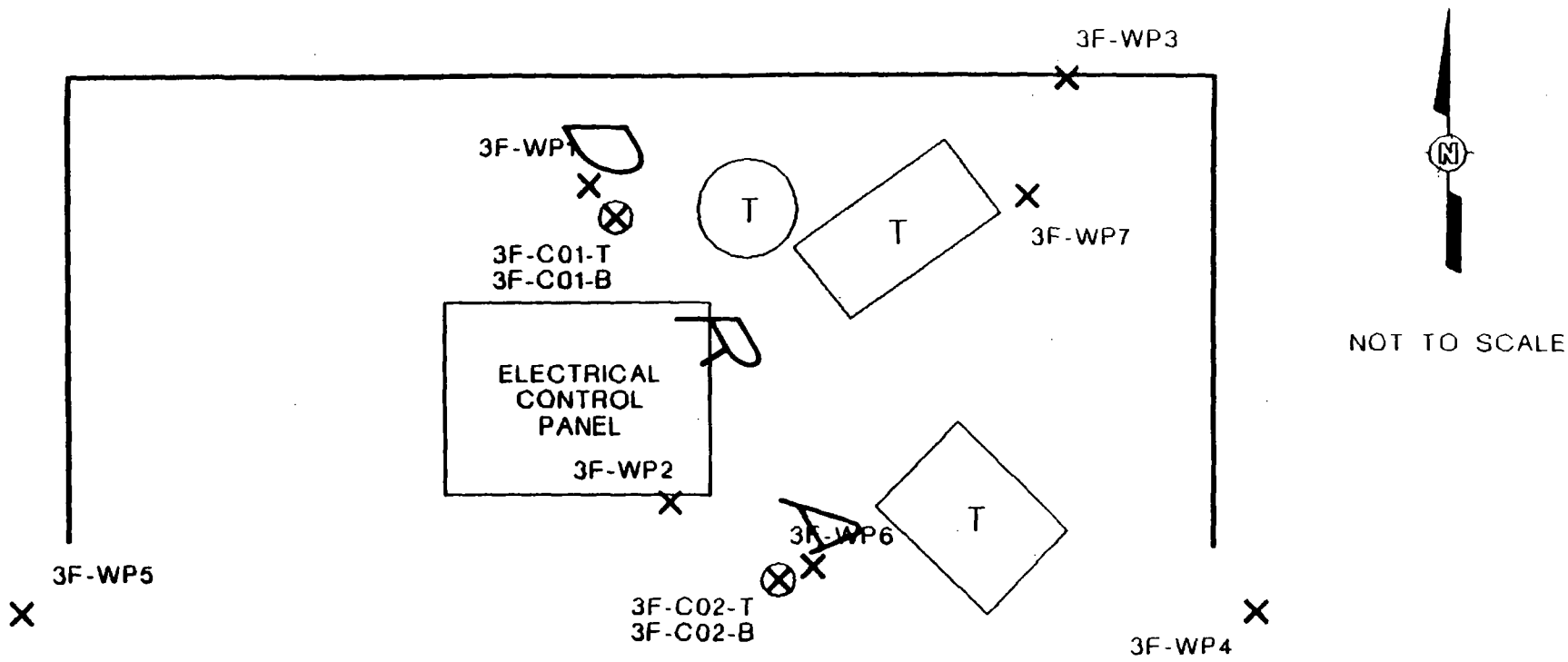
		APPROVED BY	[illegible]	[illegible]	



BUILDING 3-F

FIGURE 5

PCB SAMPLING LOCATIONS
BUILDING 3-F
KILBOURN AVENUE SITE
1330 S. KILBOURN AVE.
CHICAGO, ILLINOIS

PREPARED FOR

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LEGEND

⊗ = CONCRETE CORE SAMPLE LOCATION

✕ = WIPE SAMPLE LOCATION

T = TRAN

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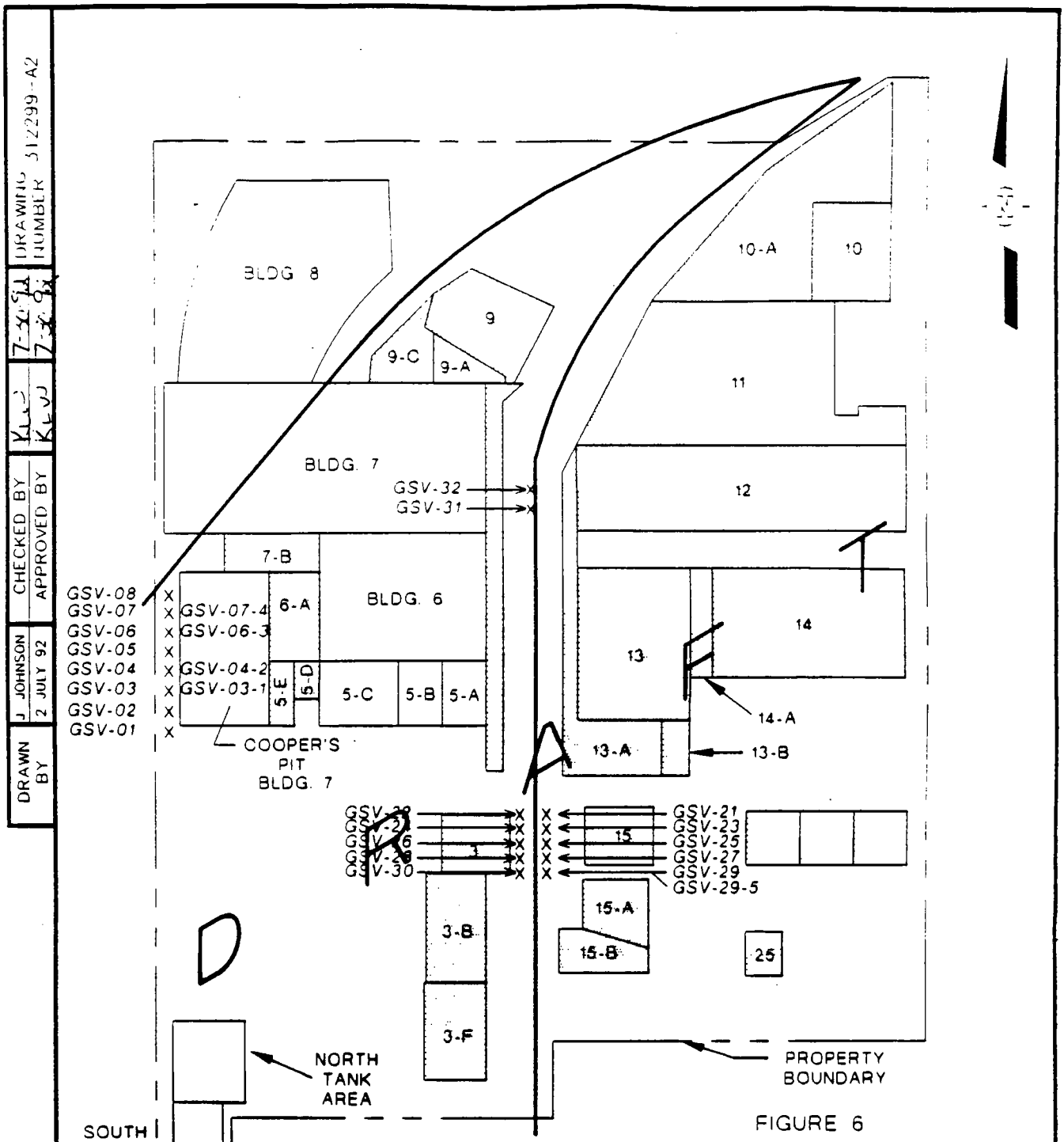

FIGURE 6

SOIL VAPOR SURVEY AND SOIL SAMPLING LOCATIONS

KILBOURN AVENUE SITE
1330 S. KILBOURN AVE.
CHICAGO, ILLINOIS

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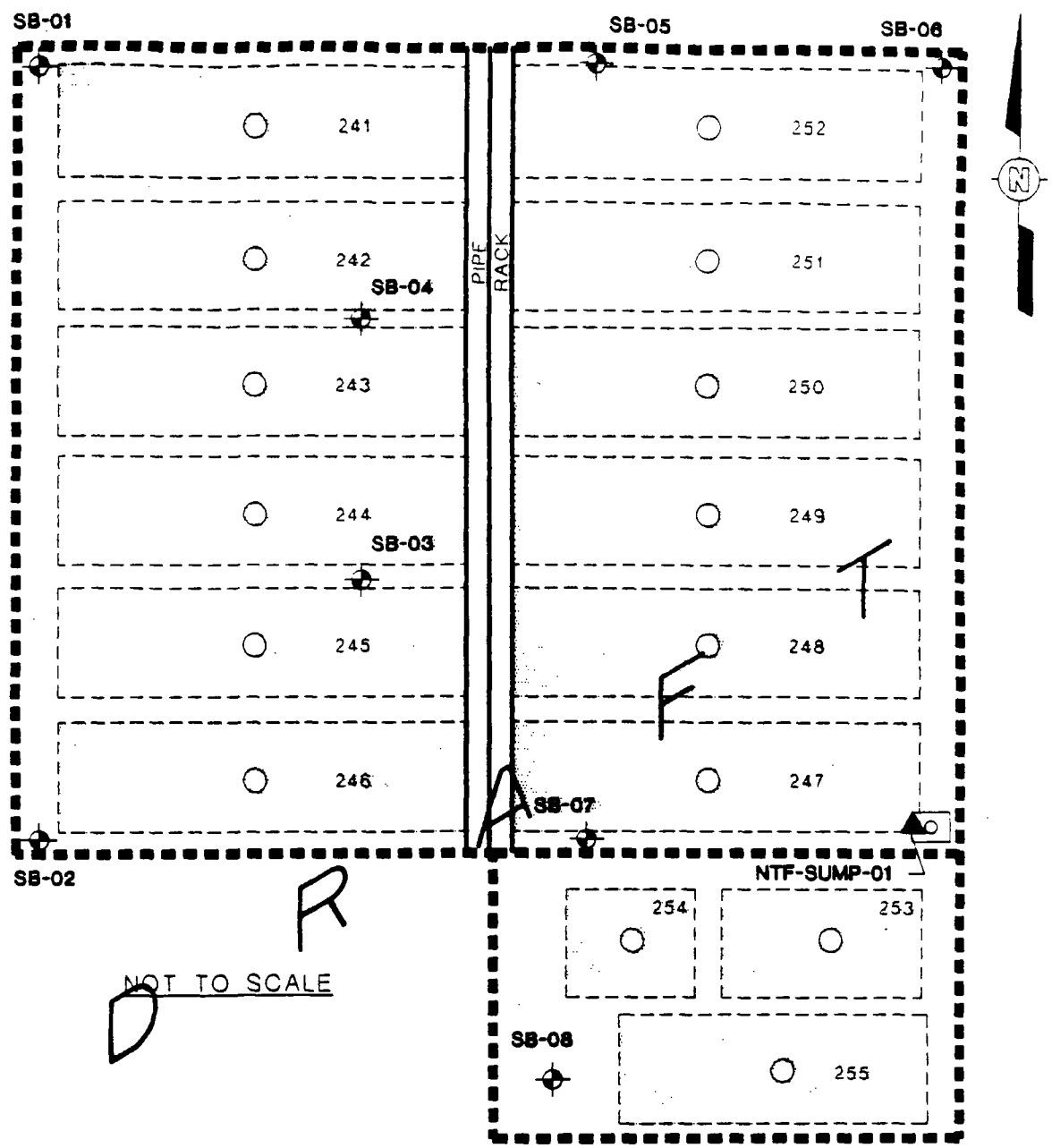

LEGEND

- TANK TO BE CLOSED
- UNREGULATED TANKS
- 241 EPA ID NUMBER
- SUMP
- CONCRETE DIKING
- SB-01 SOIL BORING LOCATIONS
- NTF-SUMP-01 SUMP SAMPLING LOCATION

FIGURE 7

SOIL BORING AND SUMP LOCATIONS
NORTH TANK FARM

KILBOURN AVENUE SITE
1330 S. KILBOURN AVE.
CHICAGO, ILLINOIS

PREPARED FOR

THE VALSPAR CORPORATION

DRAWN BY J. JOHNSON 28 JULY 92
CHECKED BY
APPROVED BY
DRAWING NUMBER 312299-A4

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		APPROVED BY	KLW 7-30-92		

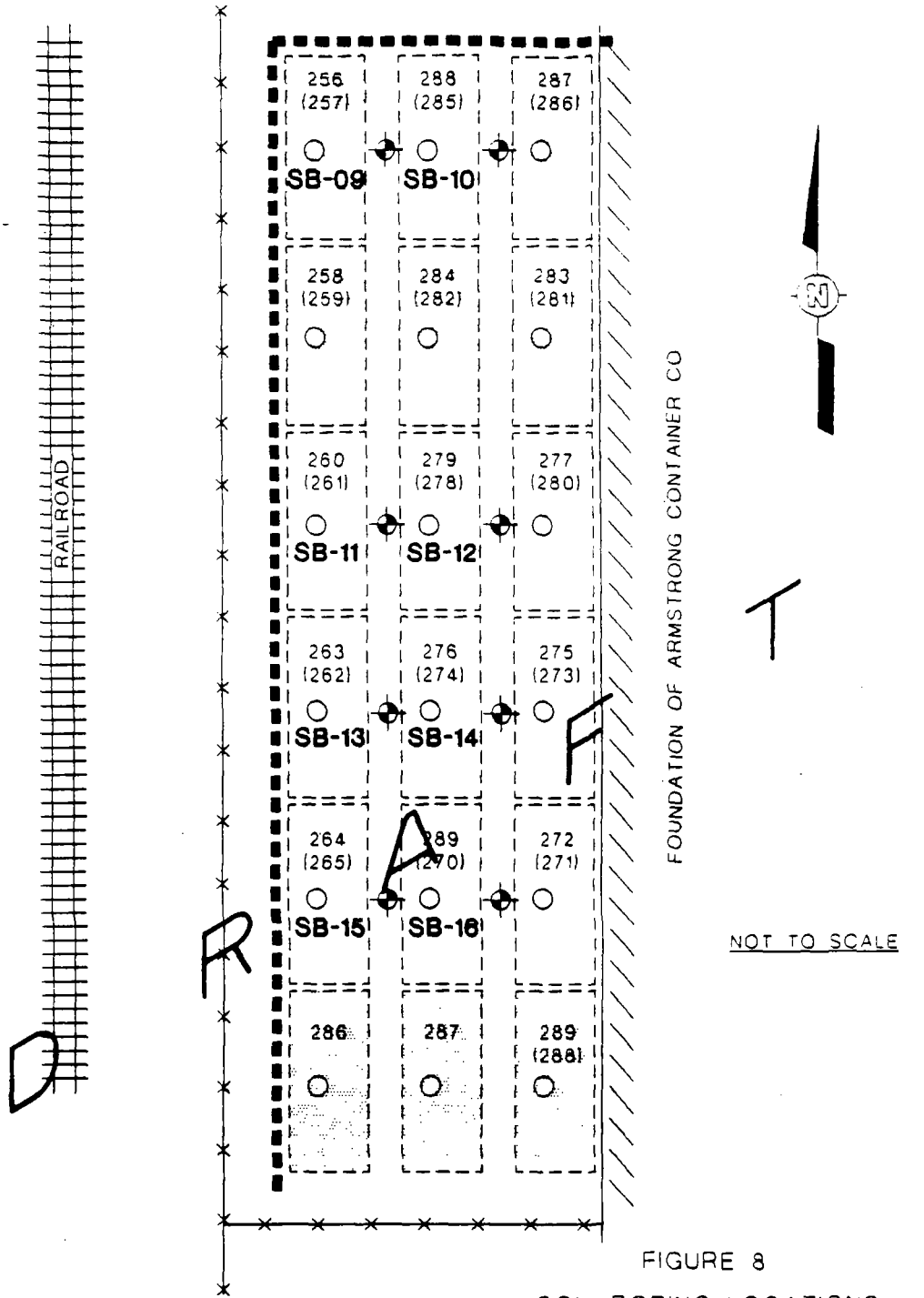

FIGURE 8

SOIL BORING LOCATIONS
SOUTH TANK FARM

KILBOURN AVENUE SITE
1330 S. KILBOURN AVE.
CHICAGO, ILLINOIS

PREPARED FOR

THE VALSPAR CORPORATION

LEGEND

- TANKS TO BE CLOSED
- UNREGULATED TANKS
- 241 EPA ID NUMBER
- CONCRETE DIKING
- SB-09 SOIL BORING LOCATIONS
- FENCE

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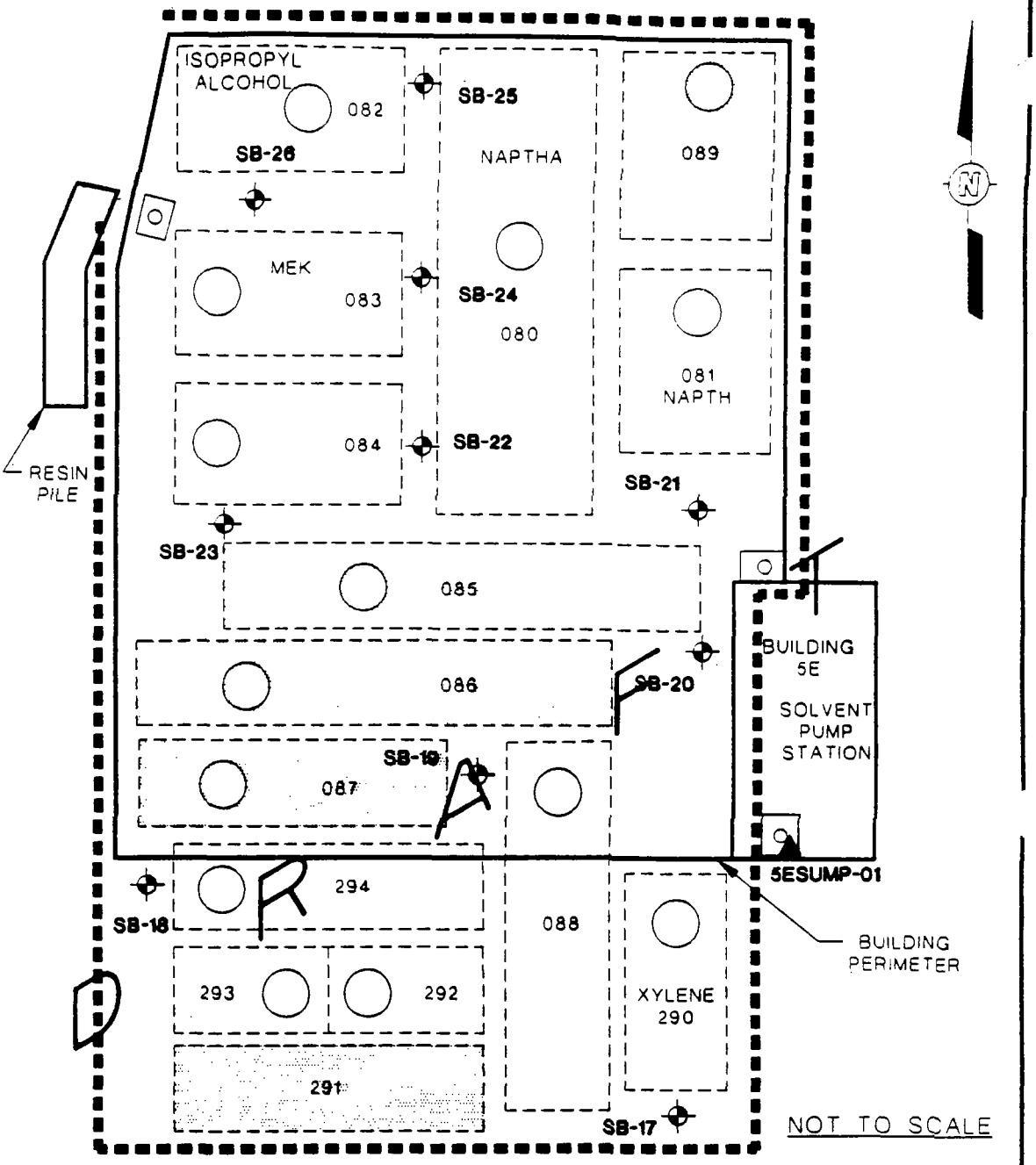

LEGEND

- TANK TO BE CLOSED
- UNREGULATED TANKS
- 088 EPA ID NUMBER
- SUMP
- CONCRETE DIKING
- SB-23 SOIL BORING LOCATIONS
- 5ESUMP-01 SUMP SAMPLING LOCATION

FIGURE 9
SOIL BORING AND SUMP LOCATIONS
COOPER'S PIT

KILBOURN AVENUE SITE
1330 S. KILBOURN AVE.
CHICAGO, ILLINOIS

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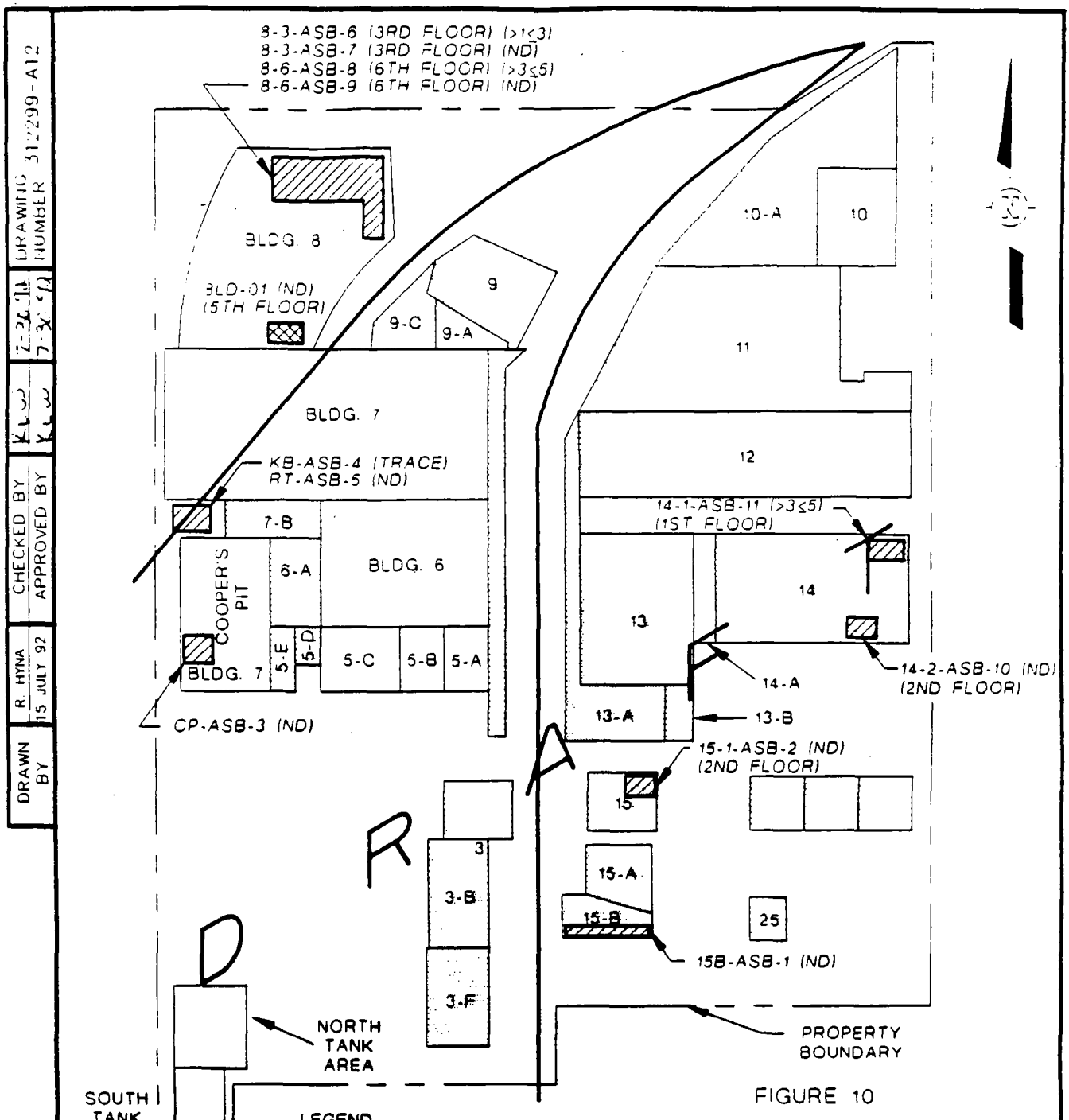


FIGURE 10

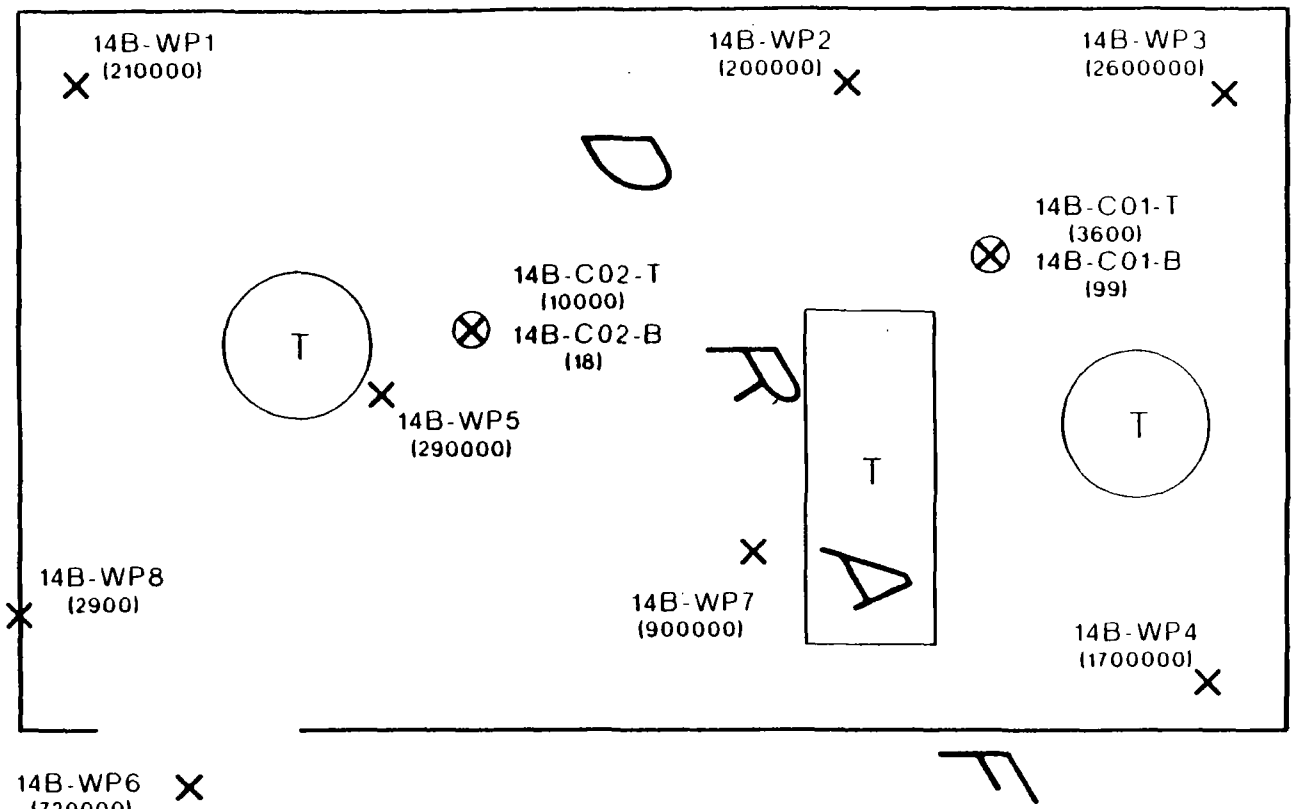
DUST COLLECTOR AND ASBESTOS SAMPLING LOCATIONS WITH TCLP LEAD AND ASBESTOS CONCENTRATIONS

KILBOURN AVENUE SITE
1330 S. KILBOURN AVE.
CHICAGO, ILLINOIS

PREPARED FOR

THE VALSPAR CORPORATION

DRAWN BY	J JOHNSON 14 JULY 92	CHECKED BY / APPROVED BY	KLW / KLW	7-30-92 / 7-30-92	DRAWING NUMBER 312299-A10



ELECTRIC VAULT IN BUILDING 14-BASEMENT

NOT TO SCALE

NOTE: CONCRETE CORE SAMPLE CONCENTRATIONS ARE REPORTED IN PARTS PER MILLION AND WIPE SAMPLE CONCENTRATIONS ARE REPORTED IN ug/100cm^2

FIGURE 11

PCB SAMPLING LOCATIONS AND CONCENTRATIONS BUILDING 14-BASEMENT

KILBOURN AVENUE SITE
1330 S. KILBOURN AVE
CHICAGO, ILLINOIS

PREPARED FOR

THE VALSPAR CORPORATION

LEGEND

⊗ : CONCRETE CORE SAMPLE LOCATION

× : WIPE SAMPLE LOCATION

T : TRANSFORMER

(2900) : AROCLOR 1260 CONCENTRATION

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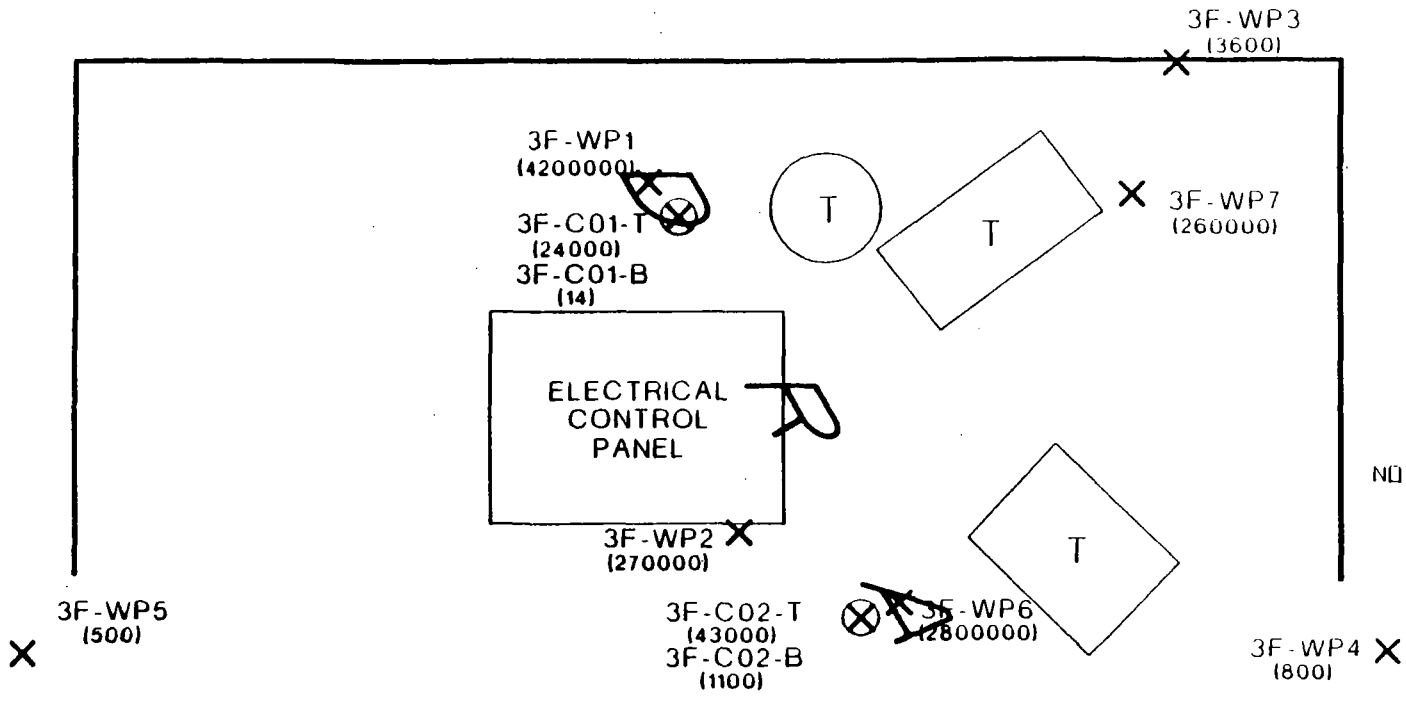
		APPROVED BY	KLW	7-30-92	



NOT TO SCALE

NOTE: CONCRETE CORE SAMPLE CONCENTRATIONS ARE REPORTED IN PARTS PER MILLION AND WIPE SAMPLE CONCENTRATIONS ARE REPORTED IN $ug/100cm^2$.

BUILDING 3-F

FIGURE 12

PCB SAMPLING LOCATIONS AND CONCENTRATIONS BUILDING 3-F

KILBOURN AVENUE SITE
1330 S KILBOURN AVE
CHICAGO, ILLINOIS

PREPARED FOR

THE VALSPAR CORPORATION

LEGEND

⊗ : CONCRETE CORE SAMPLE LOCATION

× : WIPE SAMPLE LOCATION

T : TRANSFORMER

(1100) : AROCLOR 1260 CONCENTRATION

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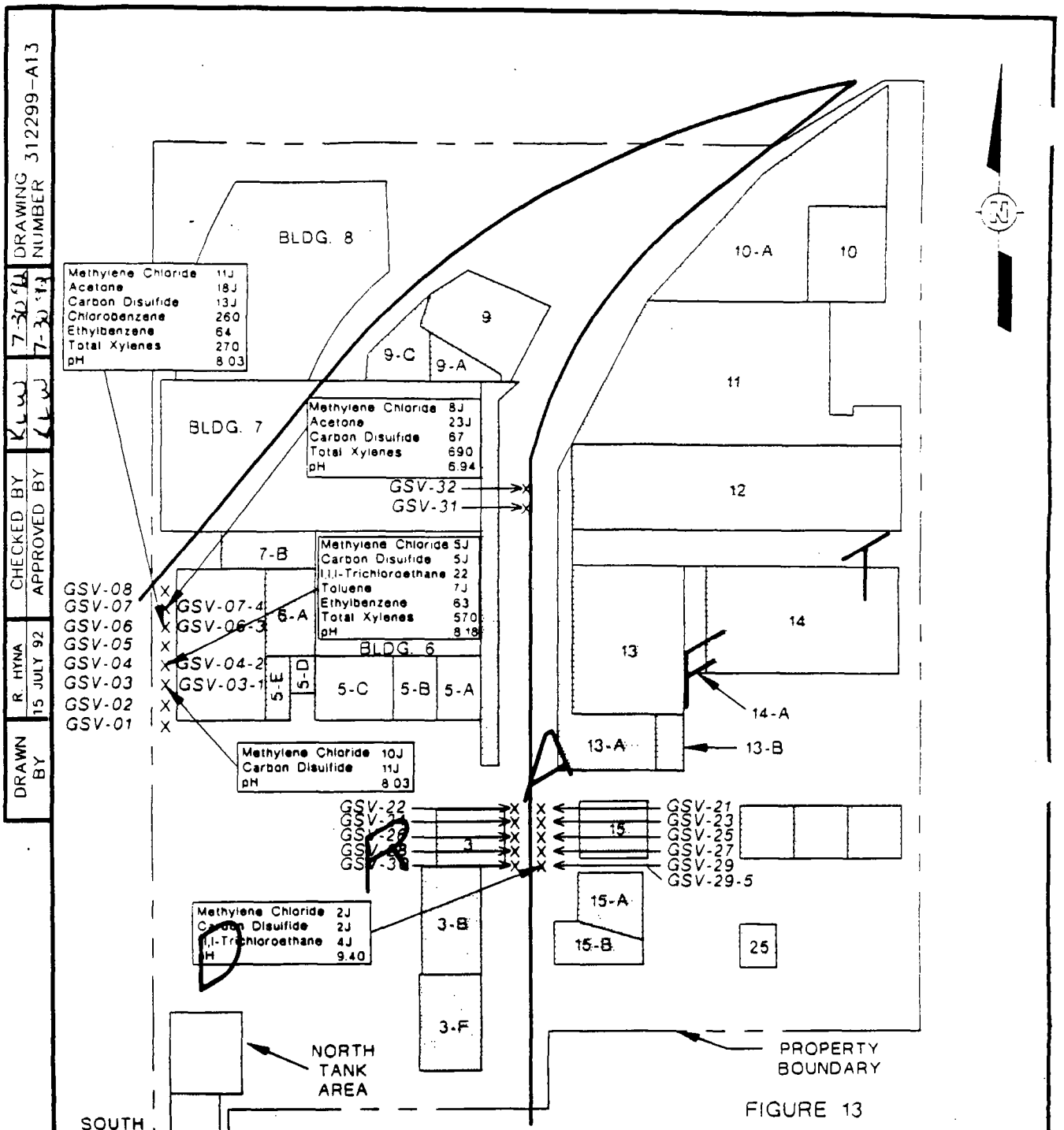

FIGURE 13

SOIL VAPOR SURVEY AND SOIL SAMPLING LOCATIONS WITH VOC CONCENTRATIONS

KILBOURN AVENUE SITE
1330 S. KILBOURN AVE
CHICAGO, ILLINOIS

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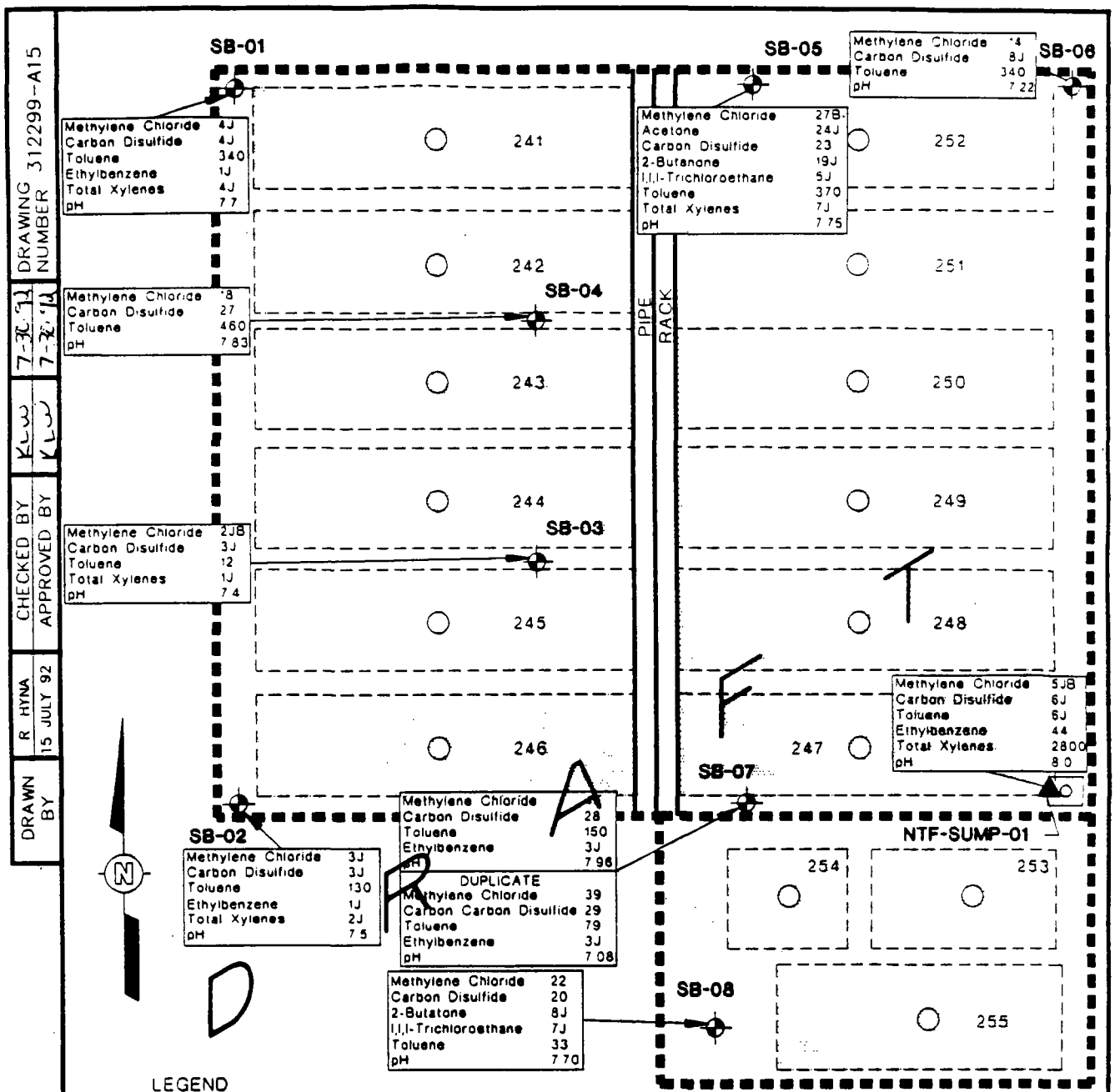

LEGEND

- TANK TO BE CLOSED
- UNREGULATED TANKS
- 241 EPA ID NUMBER
- SUMP
- CONCRETE DIKING
- SB-01 SOIL BORING LOCATIONS
- SUMP SAMPLING LOCATION
- NTF-SUMP-01
- J ESTIMATED VALUE
- B COMPOUND WAS DETECTED IN LABORATORY BLANK

NOTE: CONCENTRATIONS REPORTED IN PARTS PER BILLION.

FIGURE 14

SOIL BORING AND SUMP LOCATIONS WITH VOC CONCENTRATIONS FROM 0-6 INCH DEPTH NORTH TANK FARM

KILBOURN AVENUE SITE
1330 S. KILBOURN AVE.
CHICAGO, ILLINOIS

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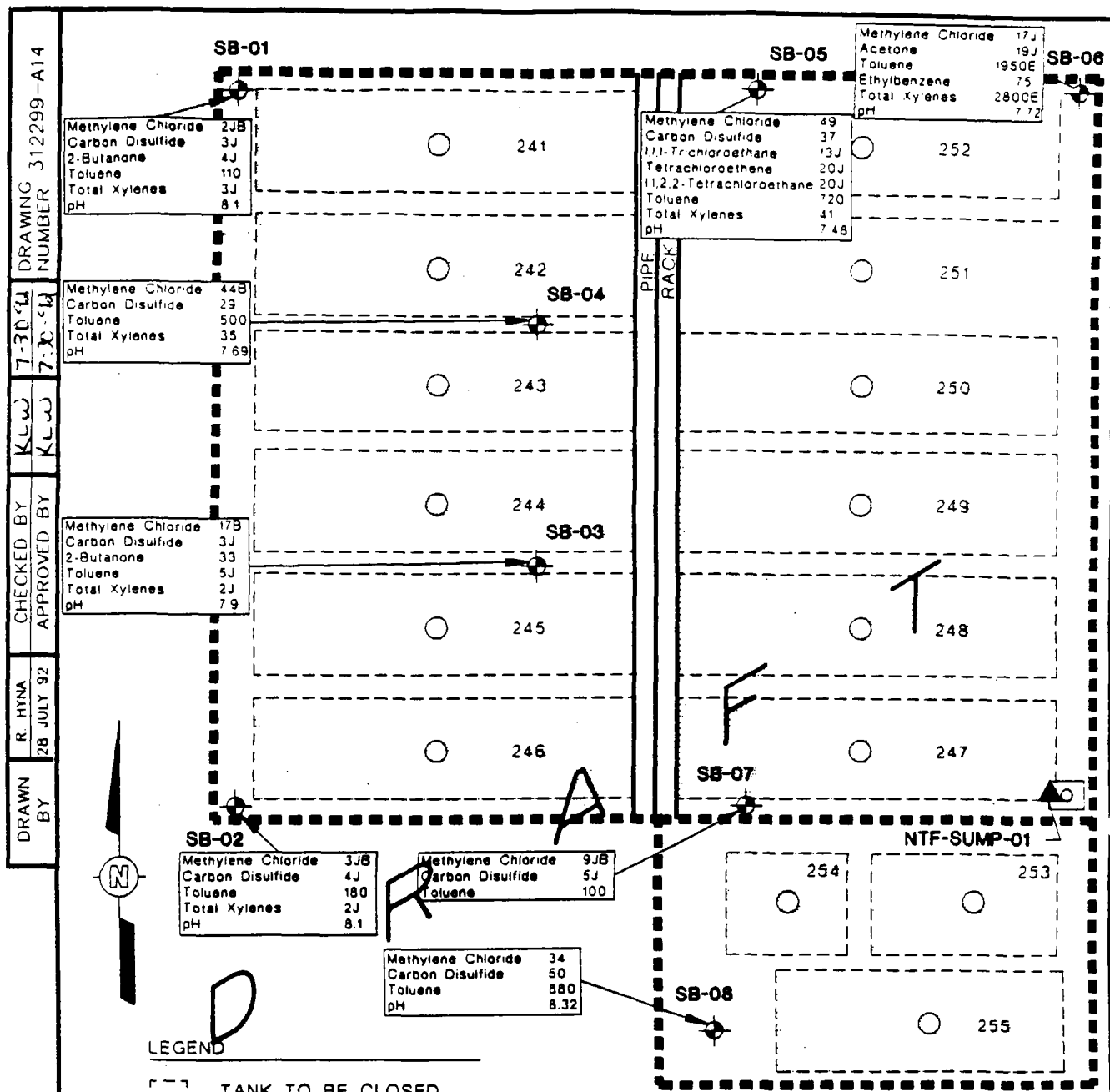

FIGURE 15

SOIL BORING AND SUMP LOCATIONS WITH VOC CONCENTRATIONS FROM 6-8 FOOT DEPTH NORTH TANK FARM

KILBOURN AVENUE SITE
1330 S. KILBOURN AVE.
CHICAGO, ILLINOIS

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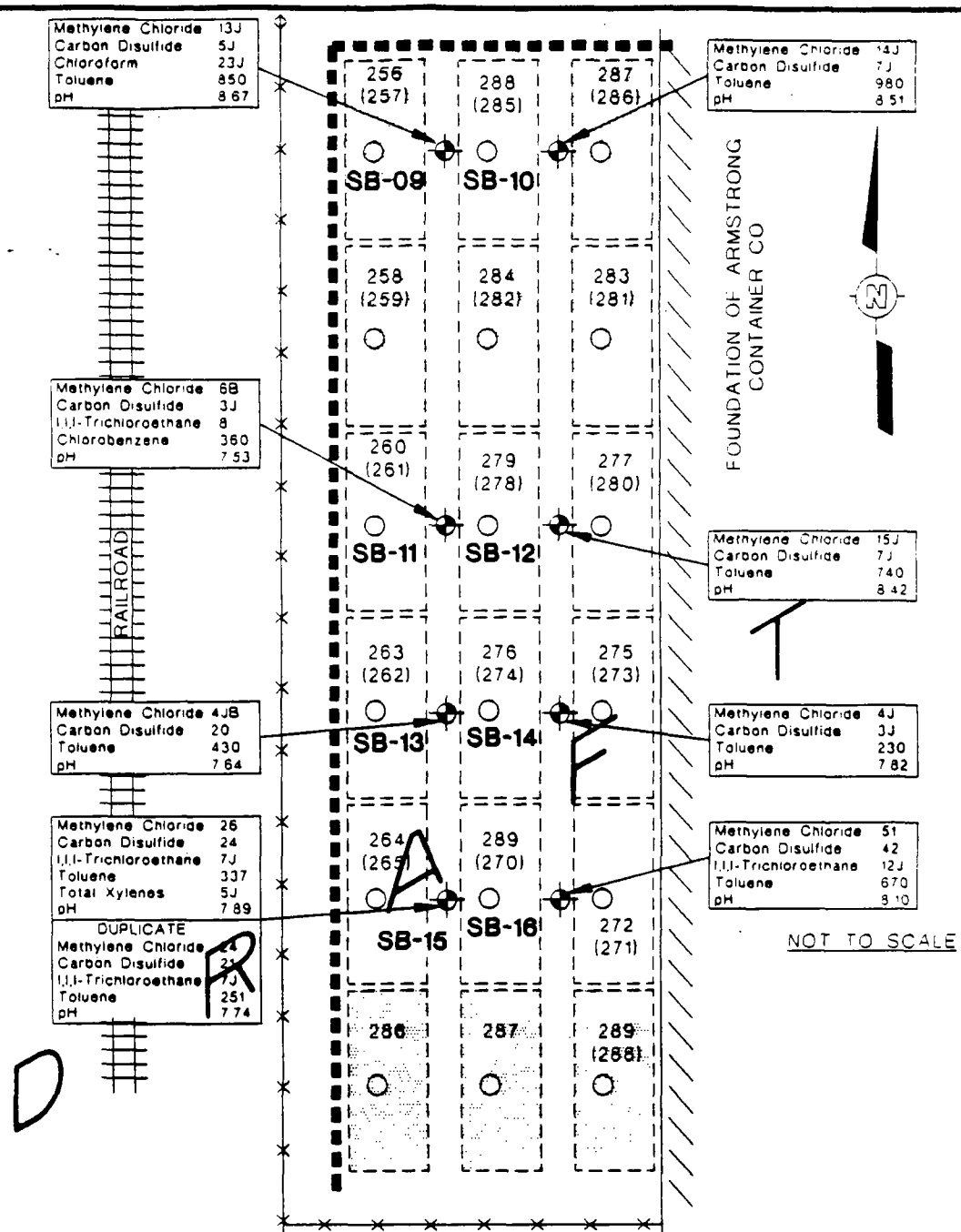

LEGEND

- TANKS TO BE CLOSED
- UNREGULATED TANKS
- 241 EPA ID NUMBER
- CONCRETE DIKING
- SB-09 SOIL BORING LOCATIONS
- FENCE
- J ESTIMATED VALUE
- B COMPOUND DETECTED IN IN LABORATORY BLANK

NOTE: CONCENTRATIONS REPORTED IN PARTS PER BILLION

FIGURE 16
SOIL BORING LOCATIONS
WITH VOC CONCENTRATIONS
FROM 0-6 INCH DEPTH
SOUTH TANK FARM

KILBOURN AVENUE SITE
1330 S. KILBOURN AVE.
CHICAGO, ILLINOIS

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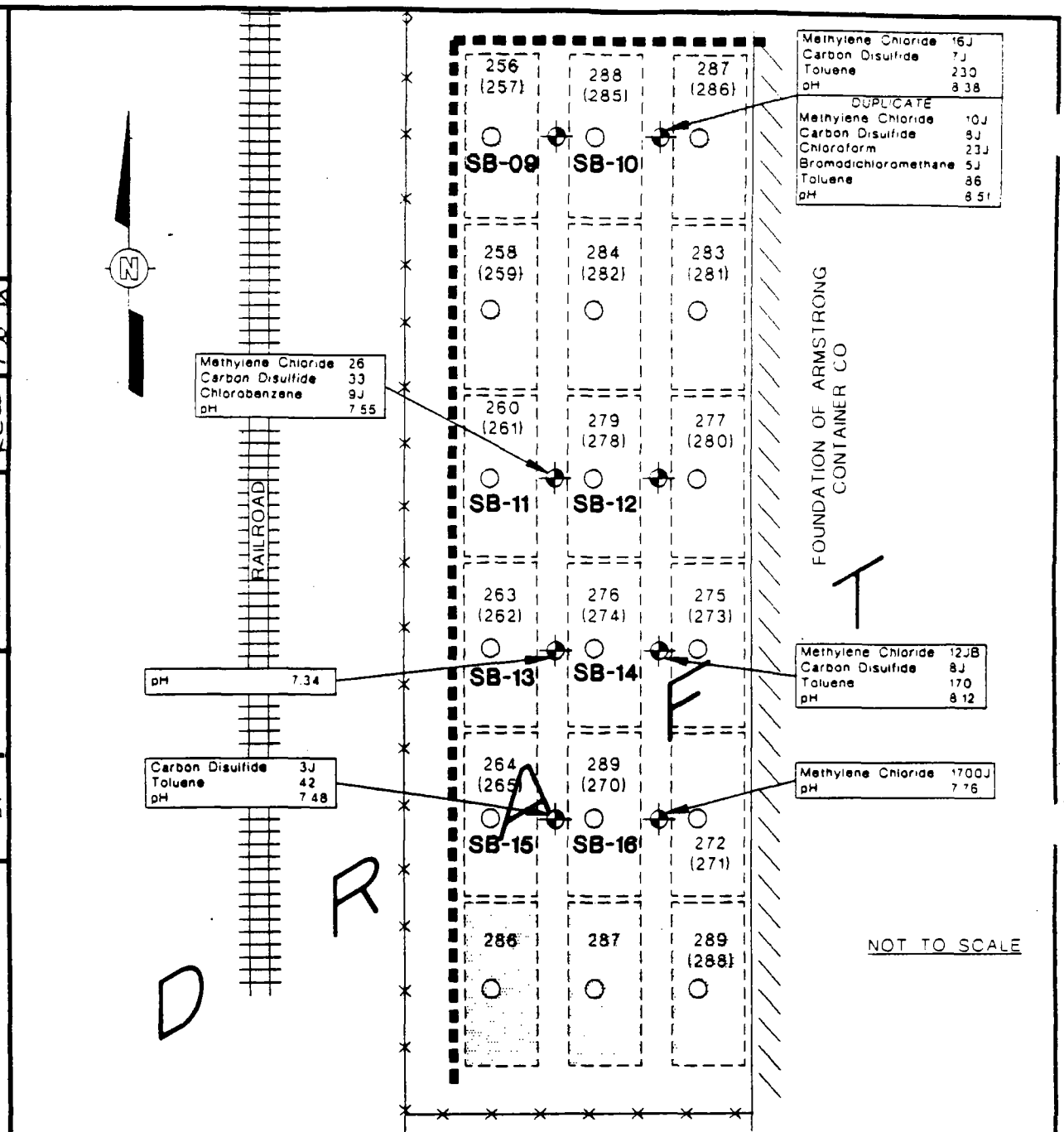

LEGEND

- TANKS TO BE CLOSED
- UNREGULATED TANKS
- 241 EPA ID NUMBER
- CONCRETE DIKING
- SB-09 SOIL BORING LOCATIONS
- FENCE
- J ESTIMATED VALUE
- B COMPOUND DETECTED IN IN LABORATORY BLANK

NOTE: CONCENTRATIONS REPORTED IN PARTS PER BILLION

FIGURE 17

SOIL BORING LOCATIONS WITH VOC CONCENTRATIONS FROM 4-6 FOOT DEPTH SOUTH TANK FARM

KILBOURN AVENUE SITE
1330 S. KILBOURN AVE.
CHICAGO, ILLINOIS

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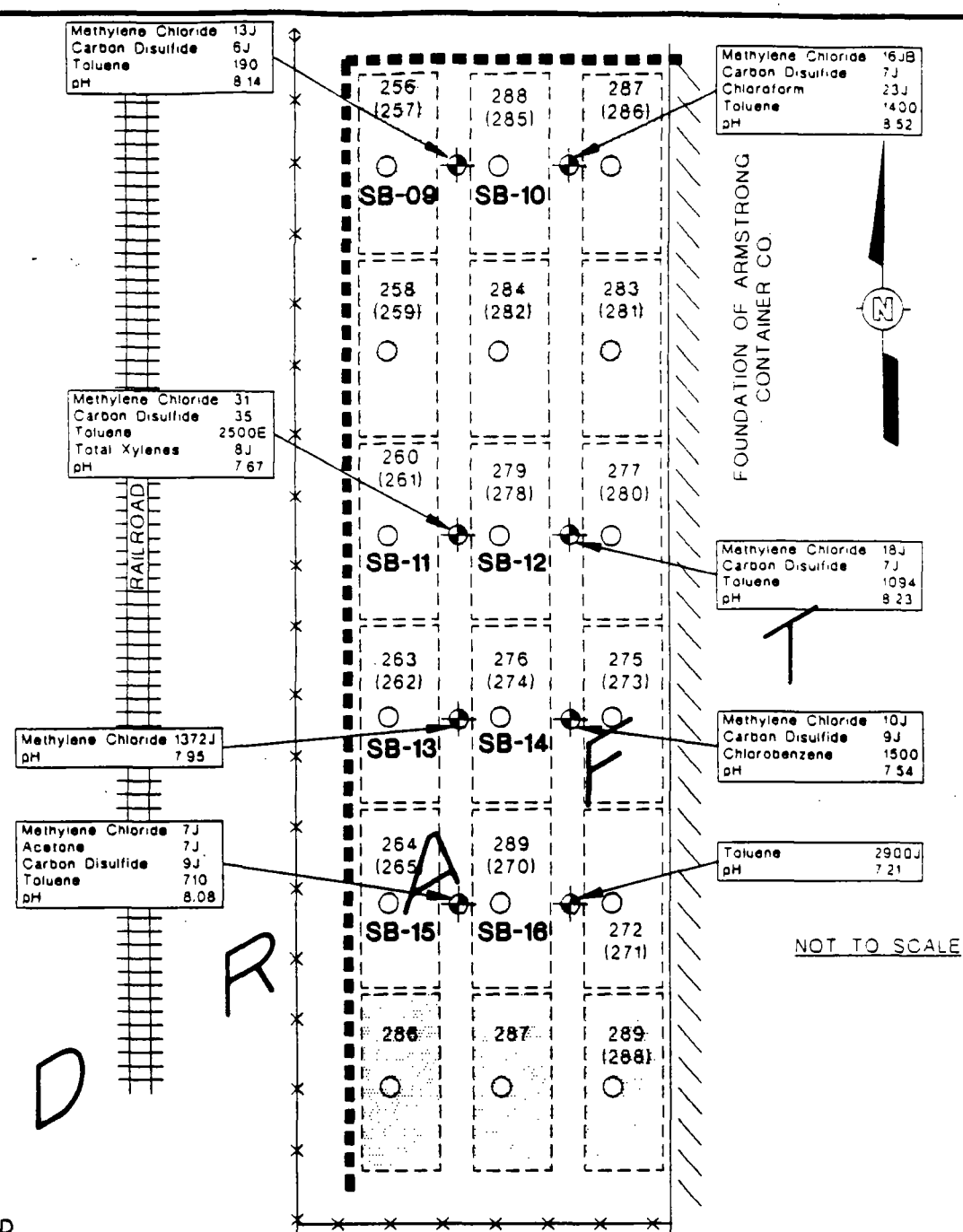

LEGEND

- TANKS TO BE CLOSED
- UNREGULATED TANKS
- 241 EPA ID NUMBER
- CONCRETE DIKING
- SB-09 SOIL BORING LOCATIONS
- FENCE
- J ESTIMATED VALUE
- B COMPOUND DETECTED IN IN LABORATORY BLANK
- E CONCENTRATION EXCEEDED SCALE OF GC SO SAMPLE WAS DILUTED

NOTE: CONCENTRATIONS REPORTED IN PARTS PER BILLION

FIGURE 18
SOIL BORING LOCATIONS
WITH VOC CONCENTRATIONS
FROM 6-8 FOOT DEPTH
SOUTH TANK FARM
KILBOURN AVENUE SITE
1330 S. KILBOURN AVE.
CHICAGO, ILLINOIS

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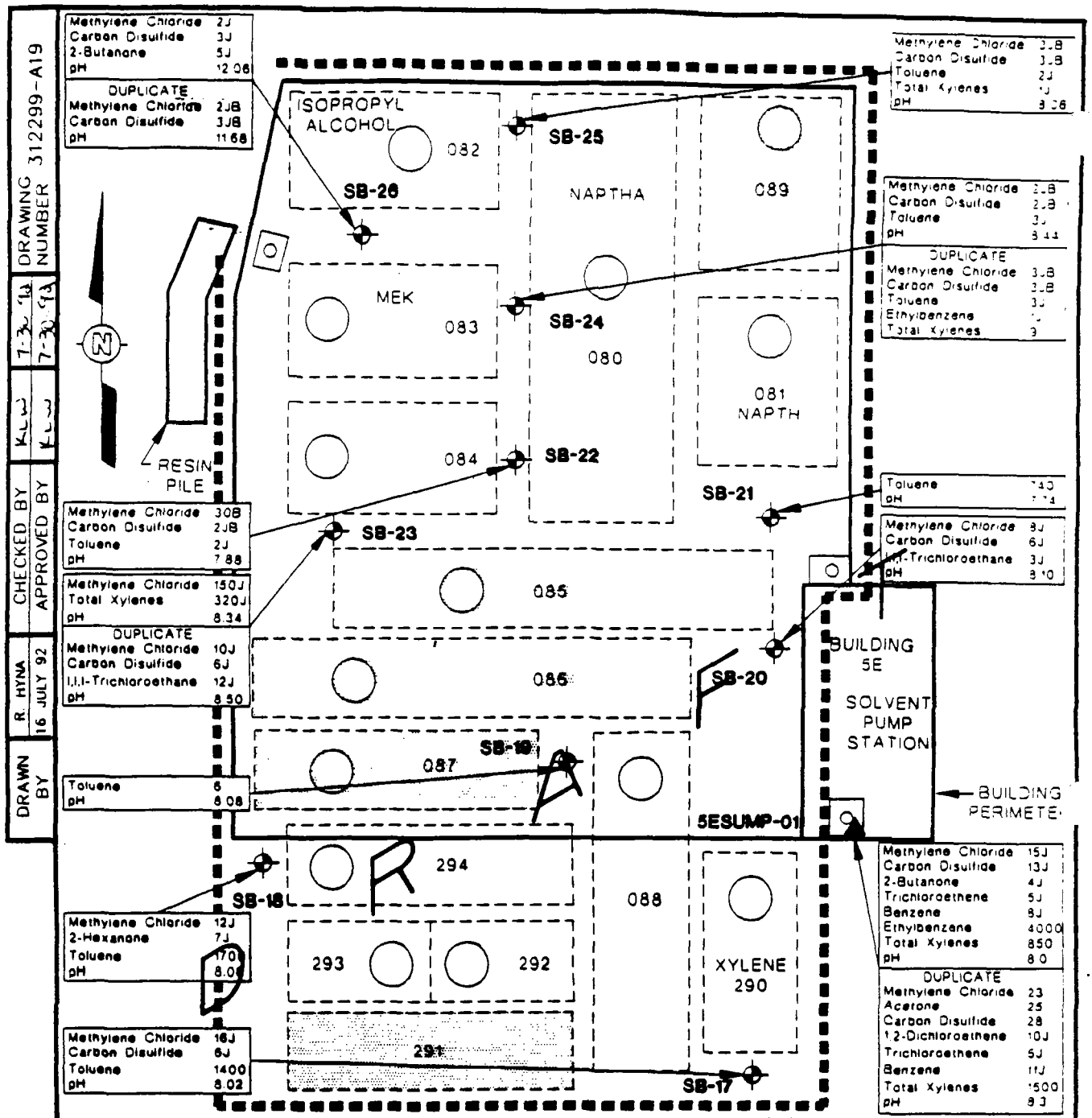
CHECKED BY KLW 7-30-92
APPROVED BY KLW 7-30-92

DRAWN BY R. HYNA 15 JULY 92



LEGEND

- TANK TO BE CLOSED
- UNREGULATED TANKS
- 088 EPA ID NUMBER
- SUMP
- CONCRETE DIKING
- SB-23 SOIL BORING LOCATIONS
- 5ESUMP-01 SUMP SAMPLING LOCATION
- J ESTIMATED VALUE
- B COMPOUND DETECTED IN LABORATORY BLANK

NOTE: CONCENTRATIONS ARE REPORTED IN PARTS PER BILLION.

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FIGURE 19

SOIL BORING AND SUMP LOCATIONS WITH VOC CONCENTRATIONS FROM 0-6 INCH DEPTH
COOPER'S PIT
KILBOURN AVENUE SITE
1330 S. KILBOURN AVE.
CHICAGO, ILLINOIS

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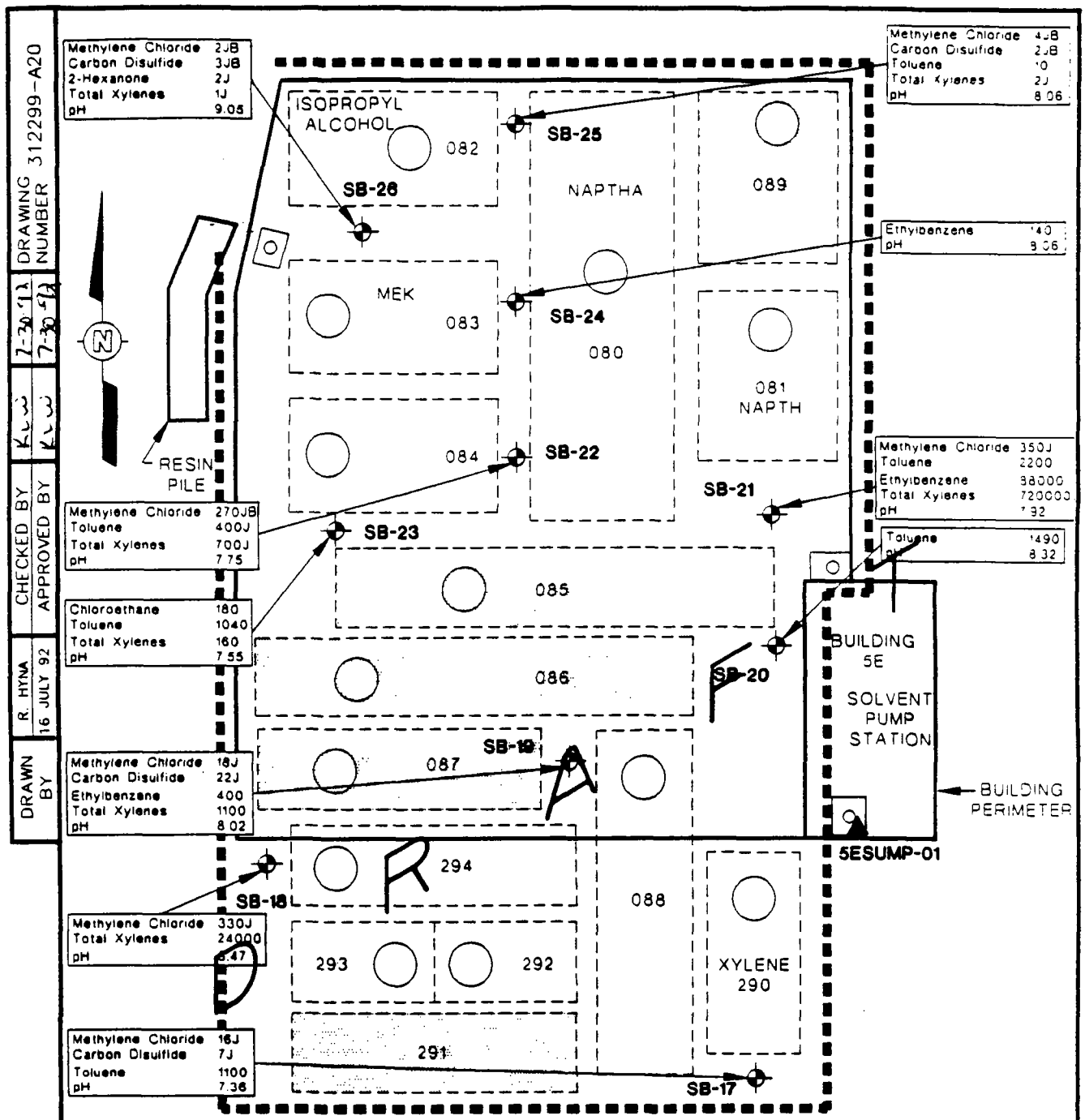

LEGEND

- TANK TO BE CLOSED
- UNREGULATED TANKS
- 088 EPA ID NUMBER
- SUMP
- CONCRETE DIKING
- SB-23 SOIL BORING LOCATIONS
- 5ESUMP-01 SUMP SAMPLING LOCATION
- J ESTIMATED VALUE
- B COMPOUND DETECTED IN LABORATORY BLANK

NOTE: CONCENTRATIONS ARE REPORTED IN PARTS PER BILLION.

FIGURE 20
SOIL BORING LOCATIONS
WITH VOC CONCENTRATIONS
FROM 2-7 FOOT DEPTH
COOPER'S PIT
KILBOURN AVENUE SITE
1330 S. KILBOURN AVE
CHICAGO, ILLINOIS

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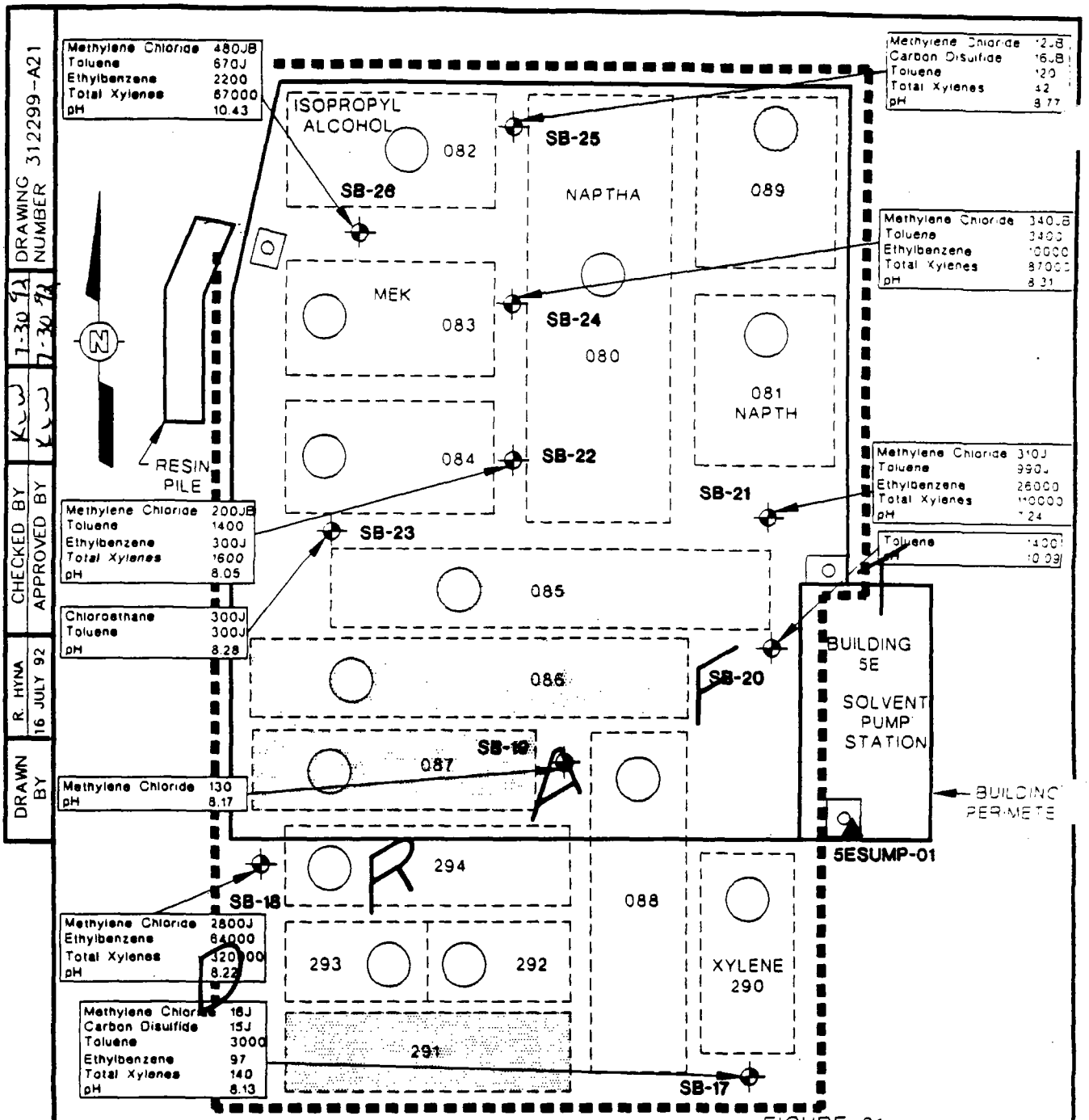

LEGEND

- TANK TO BE CLOSED
- UNREGULATED TANKS
- 088 EPA ID NUMBER
- SUMP
- CONCRETE DIKING
- SB-23 SOIL BORING LOCATIONS
- 5ESUMP-01 SUMP SAMPLING LOCATION
- J ESTIMATED VALUE
- B COMPOUND DETECTED IN LABORATORY BLANK

NOTE: CONCENTRATIONS ARE REPORTED IN PARTS PER BILLION.

FIGURE 21

SOIL BORING LOCATIONS WITH VOC CONCENTRATIONS FROM 6-12 FOOT DEPTH

COOPER'S PIT

KILBOURN AVENUE SITE
1330 S. KILBOURN AVE.
CHICAGO, ILLINOIS

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INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

RECEIVED [illegible]

CERTIFICATE OF ANALYSIS

IT Corporation
333 Pierce Road
Itasca, IL 60143

Date: May 18, 1992

Attn: Kristian Webb

Job Number 21691

This is the Certificate of Analysis for the following samples:

Client Project ID:	Kilbourn
Date Received:	May 9, 1992
Work Order:	X2-05-085
Number of Samples:	11
Sample Type:	Bulk

I. Introduction

Eleven samples arrived at ITAS Cincinnati on May 9, 1992. The samples were collected on May 8, 1992 and were labeled as follows:

15B-ASB-01	KB-ASB-4	8-3-ASB-7	14-2-ASB-10
15-1-ASB-2	RT-ASB-5	8-6-ASB-8	14-1-ASB-11
CP-ASB-3	8-3-ASB-6	8-6-ASB-9	

II. Analytical Results/Methodology

The analytical results for this report are presented by analytical test. The data will include sample identification information, the analytical results, and the appropriate detection limits.

The analysis requested Asbestos. The samples were analyzed by Data Chem Laboratories under an ITAS Subcontact.

Reviewed and Approved by:

Tim Soward

Tim Soward
Project Manager
205085

IT ANALYTICAL SERVICES
CINCINNATI, OH

Polarized Light Microscopy
Asbestos Analysis Summary

Date: 5/14/92
Page: 1

Sample Set ID Number: 92-A-1756

Client Sample #:	15B-ASB-01	15-1-ASB-02	CP-ASB--3	KB-ASB--4	RT-ASB-5
Lab ID #:	01	02	03	04	05
MACROSCOPIC EXAMINATION:					
Sample Accepted or Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Heterog.	Heterog	Homog.	Homog.	Homog.
Color:	White	Yellow	Grey	Tan	Black
Texture:	Crumbly	Fibrous	Crumbly	Crumbly	Fibrous
Sample Description:	Material	Insulation	Material	Material	Shingle
Analysis:	PLM	PLM	PLM	PLM	PLM
ASBESTIFORM MINERALS:					
% Chrysotile:				Trace	
% Amosite:				Trace	
% Crocidolite:					
% Tremolite:					
% Actinolite					
% Anthophyllite					
% Total Asbestos	ND	ND	ND	Trace	ND
OTHER MATERIALS:					
% Cellulose:	>3≤5	Trace	>1≤3	>1≤3	>50≤60
% Fiberglass:		>80≤90			
% Mineral Wool:					
% Other Fibrous:					
% Resin/Binder:	>5≤10	>3≤5	>5≤10	>5≤10	>20≤30
% Other Non-Fibrous:	>80≤90	>1≤3	>80≤90	>80≤90	>10≤20

Special Prep. Procedures:

*Notes:

IT ANALYTICAL SERVICES
CINCINNATI, OH

Polarized Light Microscopy
Asbestos Analysis Summary

Date: 5/14/92
Page: 2

Sample Set ID Number: 92-A-1756

Client Sample #:	8-3-ASB-6	8-3-ASB-7	8-6-ASB-8	8-6-ASB-9	14-2-ASB-10
Lab ID #:	06	07	08	09	10
MACROSCOPIC EXAMINATION:					
Sample Accepted or Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Layered	Homog.	Layered	Homog.	Homog.
Color:	Grey/Black	Grey	Tan/Black	Grey	Tan
Texture:	Cmpt/Adhs	Fibrous	Cmpt/Adhs	Crumbly	Fibrous
Sample Description:	Tile/Mastic	Material	Tile/Mastic	Material	Material
Analysis:	PLM	PLM	PLM	PLM	PLM
ASBESTIFORM MINERALS:					
% Chrysotile:	>1≤3		>3≤5		
% Amosite:					
% Crocidolite:					
% Tremolite:					
% Actinolite					
% Anthophyllite					
% Total Asbestos	>1≤3	ND	>3≤5	ND	ND
OTHER MATERIALS:					
% Cellulose:	Trace	>30≤40	Trace	Trace	>80≤90
% Fiberglass:					
% Mineral Wool:		>40≤50			
% Other Fibrous:				>1≤3	
% Resin/Binder:	>10≤20	>5≤10	>10≤20	>5≤10	>5≤10
% Other Non-Fibrous:	>70≤80	>5<10	>70≤80	>80≤90	>3≤5

Special Prep. Procedures:

*Notes:

IT ANALYTICAL SERVICES
CINCINNATI, OH

Polarized Light Microscopy
Asbestos Analysis Summary

Sample Set ID Number: 92-A-1756

Date: 5/14/92
Page: 3

Client Sample #:	14-1-ASB-11
Lab ID #:	11

MACROSCOPIC EXAMINATION:

Sample Accepted or Rejected:	Accepted
Homogeneity:	Layered
Color:	Red/Black
Texture:	Cmpt/Adhs
Sample Description:	Tile/Mastic
Analysis:	PLM

ASBESTIFORM MINERALS:

% Chrysotile:	>3≤5
% Amosite:	
% Crocidolite:	
% Tremolite:	
% Actinolite	
% Anthophyllite	
% Total Asbestos	>3≤5

OTHER MATERIALS:

% Cellulose:	Trace
% Fiberglass:	
% Mineral Wool:	
% Other Fibrous:	
% Resin/Binder:	>10≤20
% Other Non-Fibrous:	>70≤80

Special Prep. Procedures:

*Notes: Sample No.: 14-1-ASB-11; Asbestos is present in tile only.

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

Reference Document No 556705
Page 1 of 3

Project Name/No. [1] KILBOURNE AVE
Samples Shipment Date [7] 05-08-92
Bill to: [5]
Sample Team Members [2] K. WEBB, D. PURCELL
Lab Destination [8] ITAS - CINCINATTI
Profit Center No. [3] 3532
Lab Contact [9] TIM SOWARD
Project Manager [4] K. WEBB
Project Contact/Phone [12] P. CAMPBELL (708) 250-7788
Report to: [10] KRISTIAN WEBB
IT CORPORATION
333 PIERCE RD SUITE 200
ITASCA, IL 60143
Purchase Order No. [6]
Carrier/Waybill No. [13] 2052055482
Required Report Date [11]

ONE CONTAINER PER LINE

Sample Number [14]	Sample Description/Type [15]	Date/Time Collected [16]	Container Type [17]	Sample Volume [18]	Pre-servative [19]	Requested Testing Program [20]	Condition on Receipt [21]	Disposal Record No. [22]
15B-ASB-01	ROOFING TILE	05-08-92 0945	4oz	2oz	NONE	ASBESTOS PLM	Samples rec'd in good	
15-1-ASB-2	PIPE INSULATION	05-08-92 0955	↓	↓	↓	↓	condition at 8°C. IT	
CP-ASB-3	ROOFING TILE	05-08-92 0957	↓	↓	↓	↓	sampling tape (used as	
KB-ASB-4	KILN BRICK	05-08-92	↓	↓	↓	↓	ice seal) intact on	
RT-ASB-5	ROOFING TILE	05-08-92 1002	↓	↓	↓	↓	shipping cooler 5/9/92	
8-3-ASB-6	FLOOR TILE	05-08-92 1010	↓	↓	↓	↓	[signature]	
8-3-ASB-7	SOUNDPROOFING CEILING TILE	05-08-92 1012	↓	↓	↓	↓		
8-6-ASB-8	FLOOR TILE	05-08-92 1018	↓	↓	↓	↓		

Special Instructions: [23]

Possible Hazard Identification: [24] ASBESTOS
Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐

Sample Disposal: [25]
Return to Client ☐ Disposal by Lab ☒ Archive (mos.)

Turnaround Time Required: [26]
Normal ☒ Rush ☐

QC Level: [27]
I. ☒ II. ☐ III. ☐ Project Specific (specify):

1. Relinquished by [28] (Signature/Affiliation) [signature]	Date: 5/8/92 Time: 1600	1. Received by [28] (Signature/Affiliation) [signature] MMS	Date: 5/9/92 Time: 11:00
2. Relinquished by (Signature/Affiliation)	Date: Time:	2. Received by (Signature/Affiliation)	Date: Time:
3. Relinquished by (Signature/Affiliation)	Date: Time:	3. Received by (Signature/Affiliation)	Date: Time:

Comments: [29]

White: To accompany samples
Yellow: Field copy
*See back of form for special instructions

MCA 3/15/91

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD (cont.)*

Reference Document No.[30] 336703
Page 2 of 3

Project Name KILBOURNE AVE

Project No. 312299

Samples Shipment Date 05-08-92

ONE CONTAINER PER LINE

Sample Number [14]	Sample Description/Type [15]	Date/Time Collected [16]	Container Type [17]	Sample Volume [18]	Preservative [19]	Requested Testing Program [20]	Condition on Receipt [21]	Disposal Record No. [22]
8-6-ASB-9	CEILING TILE	05-08-92 1020	4oz	2oz	4°C NONE	ASBESTOS PLM	Samples rec'd in	
14-2-ASB-10	CEILING TILE	05-08-92 1025	↓	↓	↓	↓	good condition at	
14-1-ASB-11	FLOOR TILE	05-08-92 1030	↓	↓	↓	↓	8°C IT sampling	
~~GSV-03-1~~	~~Soil Vapor Loc. Coopers Pit GSV-03~~	~~5-8-92 1158~~	↓	~~4oz~~	4°C	~~VOC~~ 8240	tape (used as [illegible])	
~~GSV-03-1~~	↓	↓	↓	↓	↓	~~pH~~ 9040	Intact on shipping cooler)	
~~GSV-04-2~~	~~Coopers Pit GSV-04~~	~~5-8-92 12:20~~	↓	↓		~~VOC~~ 8240	5/9/92	
↓	↓	↓	↓	↓		~~pH~~ 9040	[illegible]	
~~GSV-06-3~~	~~Coopers Pit GSV-06~~	~~5-8-92 12:48~~				~~VOC~~ 8240		
↓	↓					~~pH~~ 9040		
~~GSV-07-4~~	~~Coopers Pit GSV-07~~	~~5-8-92 1310~~				~~VOC~~ 8240		
↓	↓	↓				~~pH~~ 9040		
~~GSV-29-5~~	~~Bldg 3 & 15 GSV-29~~	~~5-8-92 1330~~				~~VOC~~ 8240		
↓	↓	↓	↓	↓	↓	~~pH~~ 9040		
~~RB-01~~	~~Rinsate~~	~~5-8-92 1350~~	~~40ml~~	~~80ml~~	~~4°C~~	~~VOC~~ 8240		
~~SB-20~~	~~7-9'~~	~~5-8-92 1030~~	~~4oz~~	~~4oz~~	~~4°C~~	~~pH~~ 9040		
↓	~~7-9'~~	~~5-8-92 1035~~				~~VOC~~ 8240		
↓	~~5-7'~~	~~5-8-92 1020~~				~~pH~~ 9040		
↓	~~5-7'~~	~~5-8-92 1020~~				~~VOC~~ 8240		
~~SB-21~~	~~0-6"~~	~~5-8-92 1145~~				pH 9040		
~~SB-~~	~~0-6"~~	~~5-8-92 1145~~				VOC 8240		

White: To accompany samples

Yellow: Field copy

*See back of form for special instructions

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

IT Corporation
333 Pierce Road
Itasca, IL 60143

Date: May 19, 1992

Attn: Kristian Webb

Project Number 21691

This is the Certificate of Analysis for the following samples:

Client Project ID:	Kilbourn Ave.
Date Received:	May 6, 1992
Work Order:	X2-05-047
Number of Samples:	24
Sample Type:	Soils

I. Introduction

Twenty-four samples arrived at ITAS Cincinnati on May 6, 1992. The samples were collected on May 5, 1992 and were labeled as follows:

Wipe # 14B-WP1	Wipe # 14B-WP7	Soil # SB-02 6-8'	Concrete # 14B-CO1-T
Wipe # 14B-WP2	Wipe # 14B-WP8	Soil # SB-03 6-8'	Concrete # 14B-CO2-T
Wipe # 14B-WP3	Soil # SB-01 0-6"	Sludge # 5E Sump-01	Concrete # 14B-CO2-B
Wipe # 14B-WP4	Soil # SB-02 0-6"	Sludge # 5E Sump-01D	Sludge # NTF-Sump-01
Wipe # 14B-WP5	Soil # SB-03 0-6"	Dust # 8LD-01	Water # NTF-Sump-01
Wipe # 14B-WP6	Soil # SB-01 6-8'	Concrete # 14B-CO1-B	Waer # Trip Blank

II. Analytical Results/Methodology

The analytical results for this report are presented by analytical test. The data will include sample identification information, the analytical results, and the appropriate detection limits.

The analyses requested and methods used are listed on the following page.

Reviewed and Approved by:

Tim Soward
Project Manager
205047

II. Analytical Results/Methodology (cont.)

* Volatile Organics by Gas Chromatography/Mass Spectrometry; EPA Method 8240
* Soil pH; EPA Method 9045
* TCLP Lead by Inductively Coupled Plasma Spectroscopy; EPA Method 6010
* PCB's analyzed at ITAS Cerritos

III. Quality Control

Immediately following the analytical data for the samples can be found the QA/QC information that pertains to these samples. The purpose of this information is to demonstrate that the data enclosed is scientifically valid and defensible. This QA/QC data is used to assess the laboratory's performance during the analysis of the samples it accompanies. All quantitations were performed within the calibrated range of the analytical instrument.

IV. Data Report Qualifiers

Following are descriptions of data report qualifiers which may have been used in this analytical report.

U The analyte was not detected in the sample or extract. The value reported with the "U" is the detection limit for that compound in that sample.

VALUE The result is a value equal to or greater than the detection limit for that compound.

J Indicates an estimated value. This flag is used when mass spectral data indicates the presence of the compound, but the result is less than the specified detection limit.

B This flag is used whenever the analyte is found in the blank as well as in the sample.

V. Comments

Concrete samples 14B-CO1-B, 14B-CO1-T, 14B-CO2-T and 14B-CO2-B were submitted to ITAS Cerritos for PCB analysis. They are reported on a separate certificate from Cerritos. A TCLP dust # 8LD-01 will be reported separately.

VI. Nonconformances

Samples SB-02 6-8, 5E Sump-01, 5E Sump-01D and Water NTF-Sump-01 has high levels of hydrocarbons and toluene, causing the surrogates to be high for d8-toluene. This is an obvious matrix effect.

Client: Kilbourn
Work Order: X2-05-047
20504702

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-01 0-6"
Lab Sample No:
X2-05-047-09
Date Analyzed:
May 6, 1992

% Moisture: not dec. N/A

Dilution Factor: 1

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	4	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	4	J
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-dichloroethene (Total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-dichloroethane	5	U
78-93-3	2-butanone	10	U
71-55-6	1,1,1-trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-dichloropropane	5	U
10061-01-5	cis-1,3-dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-methyl-2-pentanone	10	U
591-78-6	2-hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-tetrachloroethane	5	U
108-88-3	Toluene	340	
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	1	J
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	4	J

Client: Kilbourn
Work Order: X2-05-047
20504703

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-02 0-6"
Lab Sample No:
X2-05-047-10
Date Analyzed:
May 6, 1992

% Moisture: not dec. N/A

Dilution Factor: 1

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	3	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	3	J
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-dichloroethene (Total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-dichloroethane	5	U
78-93-3	2-butanone	10	U
71-55-6	1,1,1-trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-dichloropropane	5	U
10061-01-5	cis-1,3-dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-methyl-2-pentanone	10	U
591-78-6	2-hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-tetrachloroethane	5	U
108-88-3	Toluene	130	
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	1	J
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	2	J

Client: Kilbourn
Work Order: X2-05-047
20504704

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-03 0-6"
Lab Sample No:
X2-05-047-11
Date Analyzed:
May 6, 1992

% Moisture: not dec. N/A

Dilution Factor: 1

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	JB
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	3	J
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-dichloroethene (Total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-dichloroethane	5	U
78-93-3	2-butanone	10	U
71-55-6	1,1,1-trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-dichloropropane	5	U
10061-01-5	cis-1,3-dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-methyl-2-pentanone	10	U
591-78-6	2-hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-tetrachloroethane	5	U
108-88-3	Toluene	12	
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	1	J

Client: Kilbourn
Work Order: X2-05-047
20504705

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-01 6-8'
Lab Sample No:
X2-05-047-12
Date Analyzed:
May 7, 1992

% Moisture: not dec. N/A

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	JB
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	3	J
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-dichloroethene (Total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-dichloroethane	5	U
78-93-3	2-butanone	4	J
71-55-6	1,1,1-trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-dichloropropane	5	U
10061-01-5	cis-1,3-dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-methyl-2-pentanone	10	U
591-78-6	2-hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-tetrachloroethane	5	U
108-88-3	Toluene	110	
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	3	J

Client: Kilbourn
Work Order: X2-05-047
20504706

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-02 6-8'
Lab Sample No:
X2-05-047-13
Date Analyzed:
May 7, 1992

% Moisture: not dec. N/A

Dilution Factor: 1

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	3	JB
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	4	J
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-dichloroethene (Total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-dichloroethane	5	U
78-93-3	2-butanone	10	U
71-55-6	1,1,1-trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-dichloropropane	5	U
10061-01-5	cis-1,3-dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-methyl-2-pentanone	10	U
591-78-6	2-hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-tetrachloroethane	5	U
108-88-3	Toluene	180	
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	2	J

Client: Kilbourn
Work Order: X2-05-047
20504707

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-03 6-8'
Lab Sample No:
X2-05-047-14
Date Analyzed:
May 7, 1992

% Moisture: not dec. N/A

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	17	B
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	3	J
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-dichloroethene (Total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-dichloroethane	5	U
78-93-3	2-butanone	33	
71-55-6	1,1,1-trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-dichloropropane	5	U
10061-01-5	cis-1,3-dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-methyl-2-pentanone	10	U
591-78-6	2-hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-tetrachloroethane	5	U
108-88-3	Toluene	5	J
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	2	J

Client: Kilbourn
Work Order: X2-05-047
20504708

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Sludge # 5E Sump-01
Lab Sample No:
X2-05-047-15
Date Analyzed:
May 14, 1992

% Moisture: not dec. N/A

Dilution Factor: 5

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q
74-87-3	Chloromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl Chloride	50	U
75-00-3	Chloroethane	50	U
75-09-2	Methylene Chloride	15	J
67-64-1	Acetone	50	U
75-15-0	Carbon Disulfide	13	J
75-35-4	1,1-Dichloroethene	25	U
75-34-3	1,1-Dichloroethane	25	U
540-59-0	1,2-dichloroethene (Total)	25	U
67-66-3	Chloroform	25	U
107-06-2	1,2-dichloroethane	25	U
78-93-3	2-butanone	4	J
71-55-6	1,1,1-trichloroethane	25	U
56-23-5	Carbon Tetrachloride	25	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	25	U
78-87-5	1,2-dichloropropane	25	U
10061-01-5	cis-1,3-dichloropropene	25	U
79-01-6	Trichloroethene	5	J
124-48-1	Dibromochloromethane	25	U
79-00-5	1,1,2-trichloroethane	25	U
71-43-2	Benzene	8	J
10061-02-6	trans-1,3-dichloropropene	25	U
75-25-2	Bromoform	25	U
108-10-1	4-methyl-2-pentanone	50	U
591-78-6	2-hexanone	50	U
127-18-4	Tetrachloroethene	25	U
79-34-5	1,1,2,2-tetrachloroethane	25	U
108-88-3	Toluene	25	U
108-90-7	Chlorobenzene	25	U
100-41-4	Ethylbenzene	4000	
100-42-5	Styrene	25	U
1330-20-7	Total Xylenes	850	

Client: Kilbourn
Work Order: X2-05-047
20504709

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Sludge # 5E Sump-01D
Lab Sample No:
X2-05-047-16
Date Analyzed:
May 7, 1992

% Moisture: not dec. N/A

Dilution Factor: 2.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
74-87-3	Chloromethane	25	U
74-83-9	Bromomethane	25	U
75-01-4	Vinyl Chloride	25	U
75-00-3	Chloroethane	25	U
75-09-2	Methylene Chloride	23	
67-64-1	Acetone	25	
75-15-0	Carbon Disulfide	28	
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-dichloroethene (Total)	10	J
67-66-3	Chloroform	13	U
107-06-2	1,2-dichloroethane	13	U
78-93-3	2-butanone	25	U
71-55-6	1,1,1-trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
108-05-4	Vinyl Acetate	25	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-dichloropropane	13	U
10061-01-5	cis-1,3-dichloropropene	13	U
79-01-6	Trichloroethene	5	J
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-trichloroethane	13	U
71-43-2	Benzene	11	J
10061-02-6	trans-1,3-dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-methyl-2-pentanone	25	U
591-78-6	2-hexanone	25	U
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-tetrachloroethane	13	U
108-88-3	Toluene	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
1330-20-7	Total Xylenes	1500	

Client: Kilbourn
Work Order: X2-05-047
20504710

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Water # NTF-SUMP-01
Lab Sample No:
X2-05-047-23
Date Analyzed:
May 13, 1992

% Moisture: not dec. N/A

Dilution Factor: 5

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q
74-87-3	Chloromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl Chloride	50	U
75-00-3	Chloroethane	50	U
75-09-2	Methylene Chloride	5	JB
67-64-1	Acetone	50	U
75-15-0	Carbon Disulfide	6	J
75-35-4	1,1-Dichloroethene	25	U
75-34-3	1,1-Dichloroethane	25	U
540-59-0	1,2-dichloroethene (Total)	25	U
67-66-3	Chloroform	25	U
107-06-2	1,2-dichloroethane	25	U
78-93-3	2-butanone	50	U
71-55-6	1,1,1-trichloroethane	25	U
56-23-5	Carbon Tetrachloride	25	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	25	U
78-87-5	1,2-dichloropropane	25	U
10061-01-5	cis-1,3-dichloropropene	25	U
79-01-6	Trichloroethene	25	U
124-48-1	Dibromochloromethane	25	U
79-00-5	1,1,2-trichloroethane	25	U
71-43-2	Benzene	25	U
10061-02-6	trans-1,3-dichloropropene	25	U
75-25-2	Bromoform	25	U
108-10-1	4-methyl-2-pentanone	50	U
591-78-6	2-hexanone	50	U
127-18-4	Tetrachloroethene	25	U
79-34-5	1,1,2,2-tetrachloroethane	25	U
108-88-3	Toluene	6	J
108-90-7	Chlorobenzene	25	U
100-41-4	Ethylbenzene	44	
100-42-5	Styrene	25	U
1330-20-7	Total Xylenes	2800	

Client: Kilbourn
Work Order: X2-05-047
20504711

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Water # Trip Blank
Lab Sample No:
X2-05-047-24
Date Analyzed:
May 13, 1992

% Moisture: not dec. N/A

Dilution Factor: 5

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
74-87-3	Chloromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl Chloride	50	U
75-00-3	Chloroethane	50	U
75-09-2	Methylene Chloride	11	J
67-64-1	Acetone	50	U
75-15-0	Carbon Disulfide	25	U
75-35-4	1,1-Dichloroethene	25	U
75-34-3	1,1-Dichloroethane	25	U
540-59-0	1,2-dichloroethene (Total)	25	U
67-66-3	Chloroform	25	U
107-06-2	1,2-dichloroethane	25	U
78-93-3	2-butanone	50	U
71-55-6	1,1,1-trichloroethane	25	U
56-23-5	Carbon Tetrachloride	25	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	25	U
78-87-5	1,2-dichloropropane	25	U
10061-01-5	cis-1,3-dichloropropene	25	U
79-01-6	Trichloroethene	25	U
124-48-1	Dibromochloromethane	25	U
79-00-5	1,1,2-trichloroethane	25	U
71-43-2	Benzene	25	U
10061-02-6	trans-1,3-dichloropropene	25	U
75-25-2	Bromoform	25	U
108-10-1	4-methyl-2-pentanone	50	U
591-78-6	2-hexanone	50	U
127-18-4	Tetrachloroethene	25	U
79-34-5	1,1,2,2-tetrachloroethane	25	U
108-88-3	Toluene	25	U
108-90-7	Chlorobenzene	25	U
100-41-4	Ethylbenzene	25	U
100-42-5	Styrene	25	U
1330-20-7	Total Xylenes	1	J

Client: Kilbourn
Work Order: X2-05-047
20504712

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:

Lab Sample No:
Method Blank - VBLKP7
Date Analyzed:
May 14, 1992

% Moisture: not dec. N/A

Dilution Factor: 125

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q
74-87-3	Chloromethane	1250	U
74-83-9	Bromomethane	1250	U
75-01-4	Vinyl Chloride	1250	U
75-00-3	Chloroethane	1250	U
75-09-2	Methylene Chloride	625	U
67-64-1	Acetone	1250	U
75-15-0	Carbon Disulfide	625	U
75-35-4	1,1-Dichloroethene	625	U
75-34-3	1,1-Dichloroethane	625	U
540-59-0	1,2-dichloroethene (Total)	625	U
67-66-3	Chloroform	625	U
107-06-2	1,2-dichloroethane	625	U
78-93-3	2-butanone	1250	U
71-55-6	1,1,1-trichloroethane	625	U
56-23-5	Carbon Tetrachloride	625	U
108-05-4	Vinyl Acetate	1250	U
75-27-4	Bromodichloromethane	625	U
78-87-5	1,2-dichloropropane	625	U
10061-01-5	cis-1,3-dichloropropene	625	U
79-01-6	Trichloroethene	625	U
124-48-1	Dibromochloromethane	625	U
79-00-5	1,1,2-trichloroethane	625	U
71-43-2	Benzene	625	U
10061-02-6	trans-1,3-dichloropropene	625	U
75-25-2	Bromoform	625	U
108-10-1	4-methyl-2-pentanone	1250	U
591-78-6	2-hexanone	1250	U
127-18-4	Tetrachloroethene	625	U
79-34-5	1,1,2,2-tetrachloroethane	625	U
108-88-3	Toluene	625	U
108-90-7	Chlorobenzene	625	U
100-41-4	Ethylbenzene	625	U
100-42-5	Styrene	625	U
1330-20-7	Total Xylenes	625	U

Client: Kilbourn
Work Order: X2-05-047
20504713

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:

Lab Sample No:
Method Blank - VBLKP6
Date Analyzed:
May 7, 1992

% Moisture: not dec. N/A

Dilution Factor: 1

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-dichloroethene (Total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-dichloroethane	5	U
78-93-3	2-butanone	10	U
71-55-6	1,1,1-trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-dichloropropane	5	U
10061-01-5	cis-1,3-dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-methyl-2-pentanone	10	U
591-78-6	2-hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

Client: Kilbourn
Work Order: X2-05-047
20504715

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:

Lab Sample No:
Method Blank - VBLK04
Date Analyzed:
May 6, 1992

% Moisture: not dec. N/A

Dilution Factor: 1

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-dichloroethene (Total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-dichloroethane	5	U
78-93-3	2-butanone	10	U
71-55-6	1,1,1-trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-dichloropropane	5	U
10061-01-5	cis-1,3-dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-methyl-2-pentanone	10	U
591-78-6	2-hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

Client: Kilbourn
Work Order: X2-05-047
20504714

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:

Lab Sample No:
Method Blank - VBLK05
Date Analyzed:
May 7, 1992

% Moisture: not dec. N/A

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/kg	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	1	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-dichloroethene (Total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-dichloroethane	5	U
78-93-3	2-butanone	10	U
71-55-6	1,1,1-trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-dichloropropane	5	U
10061-01-5	cis-1,3-dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-methyl-2-pentanone	10	U
591-78-6	2-hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

Client: Kilbourn
Work Order: X2-05-047
20504720

IT ANALYTICAL SERVICES
CINCINNATI, OH

Quality Assurance Data

Volatile
Surrogate Recovery, Percent

Client Sample ID	Lab No.	d4-1,2-Dichloro-ethane	d8-Toluene	p-Bromo-fluoro-benzene
Soil # SB-01 0-6"	09	100	111	93
	09 DL	94	108	96
Soil # SB-02 0-6"	10	94	105	90
	10 DL	94	108	99
Soil # SB-03 0-6"	11	97	105	97
	11 Dup	92	103	94
Soil # SB-01 6-8'	12	95	108	98
Soil # SB-02 6-8'	13	94	* 121	89
	13 DL	93	104	93
Soil # SB-03 6-8'	14	93	111	89
Sludge # 5E Sump-01	15	86	* 187	* 53
	15 DL	95	115	* 74
Sludge # 5E Sump-01D	16	88	* 857	81
	16 DL	94	105	94
Water # NTF-SUMP-01	23	97	104	100
Water # Trip Blank	24	94	105	101
Method Blank	VBLKP3	96	103	100
	VBLKP6	101	103	103
	VBLKP7	98	104	98

* See Nonconformance

Client: Kilbourn
Work Order: X2-05-047
20504722

IT ANALYTICAL SERVICES
CINCINNATI, OH

Analytical Results, S.U.

Client Sample ID	Lab No.	pH
Soil # SB-01 0-6"	09	7.7
Soil # SB-02 0-6"	10	7.5
Soil # SB-03 0-6"	11	7.4
Soil # SB-01 6-8"	12	8.1
Soil # SB-02 6-8"	13	8.1
Soil # SB-03 6-8"	14	7.9
Sludge # SE Sump-01	15	8.0
Sludge # SE Sump-01D	16	8.3
Sludge # NTF-Sump-01	22	8.0

Client: Kilbourn
Work Order: X2-05-047
20504721

IT ANALYTICAL SERVICES
CINCINNATI, OH

Analytical Results, mg/L

Client Sample ID	Lab No.	TCLP Lead
Dust # BLKD-01	17	ND
Method Blank		ND
Detection Limit		0.06

ND = Not detected at or above the reported detection limit

Quality Control
Standard Reference Solution

Analyte	Theoretical Value	Percent Recovery
TCLP Lead	2	92.1

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

IT Corporation
333 Pierce Road
Itasca, IL 60143

Date: May 25, 1992

Attn: Kristian Webb

Project Number 21691

This is the Certificate of Analysis for the following samples:

Client Project ID:	Kilbourn Ave.
Date Received:	May 7, 1992 & May 8, 1992
Work Order:	X2-05-060, 062, 068
Number of Samples:	46
Sample Type:	Soil/Water

I. Introduction

Forty-five soil samples and one water sample arrived at ITAS Cincinnati on May 7, 1992 and May 8, 1992. The samples were collected on May 6, 1992 and May 7, 1992. The client identifications, corresponding lab numbers and date analyzed are listed with the analytical results.

II. Analytical Results/Methodology

The analytical results for this report are presented by analytical test. The data will include sample identification information, the analytical results, and the appropriate detection limits.

The analyses requested and methods used are listed on the following page.

Reviewed and Approved by:

Tim Soward
Tim Soward
Project Manager
205060

II. Analytical Results/Methodology (cont.)

* Volatile Organics by Gas Chromatography/Mass Spectrometry; EPA Method 8240

* Soil pH; EPA Method 9045

III. Quality Control

Immediately following the analytical data for the samples can be found the QA/QC information that pertains to these samples. The purpose of this information is to demonstrate that the data enclosed is scientifically valid and defensible. This QA/QC data is used to assess the laboratory's performance during the analysis of the samples it accompanies. All quantitations were performed within the calibrated range of the analytical instrument.

IV. Data Report Qualifiers

Following are descriptions of data report qualifiers which may have been used in this analytical report.

U The analyte was not detected in the sample or extract. The value reported with the "U" is the detection limit for that compound in that sample.

VALUE The result is a value equal to or greater than the detection limit for that compound.

J Indicates an estimated value. This flag is used when mass spectral data indicates the presence of the compound, but the result is less than the specified detection limit.

B This flag is used whenever the analyte is found in the blank as well as in the sample.

V. Nonconformances

Samples X2-05-068-08,10,15,16, X2-05-062-05-01,03,04,05,07, X2-05-060-01,02,03,05, 06,07,08,09,10,11,12,13,14,15,16,17,18,19,20 and 21 had increased detection limits due to high concentrations of late eluting hydrocarbons.

Samples X2-05-068-08,10,15,16, X2-05-062-03,05, X2-05-060-02,03,04 and 06 had QC data reported outside of limts. Toluene-d8 was reported high due to high levels of toluene and other hydrocarbons in the sample.

Client: Kilbourn
Work Order: X2-05-060
20506002

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-13 0-6"
Lab Sample No:
X2-05-060-07
Date Sampled: 5/6/92
Date Analyzed: 5/8/92

% Moisture: not dec. N/A

Dilution Factor: 2.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	25	U
74-83-9	Bromomethane	25	U
75-01-4	Vinyl Chloride	25	U
75-00-3	Chloroethane	25	U
75-09-2	Methylene Chloride	4	J B
67-64-1	Acetone	25	U
75-15-0	Carbon Disulfide	20	
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-dichloroethene (Total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-dichloroethane	13	U
78-93-3	2-butanone	25	U
71-55-6	1,1,1-trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
108-05-4	Vinyl Acetate	25	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-dichloropropane	13	U
10061-01-5	cis-1,3-dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02-6	trans-1,3-dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-methyl-2-pentanone	25	U
591-78-6	2-hexanone	25	U
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-tetrachloroethane	13	U
108-88-3	Toluene	430	
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
1330-20-7	Total Xylenes	13	U

Client: Kilbourn
Work Order: X2-05-060
20506003

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-13 4-6"
Lab Sample No:
X2-05-060-08
Date Sampled: 5/6/92
Date Analyzed: 5/14/92

% Moisture: not dec. N/A

Dilution Factor: 1250

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	12500	U
74-83-9	Bromomethane	12500	U
75-01-4	Vinyl Chloride	12500	U
75-00-3	Chloroethane	12500	U
75-09-2	Methylene Chloride	6250	U
67-64-1	Acetone	12500	U
75-15-0	Carbon Disulfide	6250	U
75-35-4	1,1-Dichloroethene	6250	U
75-34-3	1,1-Dichloroethane	6250	U
540-59-0	1,2-dichloroethene (Total)	6250	U
67-66-3	Chloroform	6250	U
107-06-2	1,2-dichloroethane	6250	U
78-93-3	2-butanone	12500	U
71-55-6	1,1,1-trichloroethane	6250	U
56-23-5	Carbon Tetrachloride	6250	U
108-05-4	Vinyl Acetate	12500	U
75-27-4	Bromodichloromethane	6250	U
78-87-5	1,2-dichloropropane	6250	U
10061-01-5	cis-1,3-dichloropropene	6250	U
79-01-6	Trichloroethene	6250	U
124-48-1	Dibromochloromethane	6250	U
79-00-5	1,1,2-trichloroethane	6250	U
71-43-2	Benzene	6250	U
10061-02-6	trans-1,3-dichloropropene	6250	U
75-25-2	Bromoform	6250	U
108-10-1	4-methyl-2-pentanone	12500	U
591-78-6	2-hexanone	12500	U
127-18-4	Tetrachloroethene	6250	U
79-34-5	1,1,2,2-tetrachloroethane	6250	U
108-88-3	Toluene	6250	U
108-90-7	Chlorobenzene	6250	U
100-41-4	Ethylbenzene	6250	U
100-42-5	Styrene	6250	U
1330-20-7	Total Xylenes	6250	U

Client: Kilbourn
Work Order: X2-05-060
20506004

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-13 6-8"
Lab Sample No:
X2-05-060-09
Date Sampled: 5/6/92
Date Analyzed: 5/14/92

% Moisture: not dec. N/A

Dilution Factor: 1250

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	12500	U
74-83-9	Bromomethane	12500	U
75-01-4	Vinyl Chloride	12500	U
75-00-3	Chloroethane	12500	U
75-09-2	Methylene Chloride	1372	J
67-64-1	Acetone	12500	U
75-15-0	Carbon Disulfide	6250	U
75-35-4	1,1-Dichloroethene	6250	U
75-34-3	1,1-Dichloroethane	6250	U
540-59-0	1,2-dichloroethene (Total)	6250	U
67-66-3	Chloroform	6250	U
107-06-2	1,2-dichloroethane	6250	U
78-93-3	2-butanone	12500	U
71-55-6	1,1,1-trichloroethane	6250	U
56-23-5	Carbon Tetrachloride	6250	U
108-05-4	Vinyl Acetate	12500	U
75-27-4	Bromodichloromethane	6250	U
78-87-5	1,2-dichloropropane	6250	U
10061-01-5	cis-1,3-dichloropropene	6250	U
79-01-6	Trichloroethene	6250	U
124-48-1	Dibromochloromethane	6250	U
79-00-5	1,1,2-trichloroethane	6250	U
71-43-2	Benzene	6250	U
10061-02-6	trans-1,3-dichloropropene	6250	U
75-25-2	Bromoform	6250	U
108-10-1	4-methyl-2-pentanone	12500	U
591-78-6	2-hexanone	12500	U
127-18-4	Tetrachloroethene	6250	U
79-34-5	1,1,2,2-tetrachloroethane	6250	U
108-88-3	Toluene	6250	U
108-90-7	Chlorobenzene	6250	U
100-41-4	Ethylbenzene	6250	U
100-42-5	Styrene	6250	U
1330-20-7	Total Xylenes	6250	U

Client: Kilbourn
Work Order: X2-05-060
20506005

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-08 6-8'
Lab Sample No:
X2-05-060-10
Date Sampled: 5/6/92
Date Analyzed: 5/8/92

% Moisture: not dec. N/A

Dilution Factor: 5

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl Chloride	50	U
75-00-3	Chloroethane	50	U
75-09-2	Methylene Chloride	34	
67-64-1	Acetone	50	U
75-15-0	Carbon Disulfide	50	
75-35-4	1,1-Dichloroethene	25	U
75-34-3	1,1-Dichloroethane	25	U
540-59-0	1,2-dichloroethene (Total)	25	U
67-66-3	Chloroform	25	U
107-06-2	1,2-dichloroethane	25	U
78-93-3	2-butanone	50	U
71-55-6	1,1,1-trichloroethane	25	U
56-23-5	Carbon Tetrachloride	25	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	25	U
78-87-5	1,2-dichloropropane	25	U
10061-01-5	cis-1,3-dichloropropene	25	U
79-01-6	Trichloroethene	25	U
124-48-1	Dibromochloromethane	25	U
79-00-5	1,1,2-trichloroethane	25	U
71-43-2	Benzene	25	U
10061-02-6	trans-1,3-dichloropropene	25	U
75-25-2	Bromoform	25	U
108-10-1	4-methyl-2-pentanone	50	U
591-78-6	2-hexanone	50	U
127-18-4	Tetrachloroethene	25	U
79-34-5	1,1,2,2-tetrachloroethane	25	U
108-88-3	Toluene	880	
108-90-7	Chlorobenzene	25	U
100-41-4	Ethylbenzene	25	U
100-42-5	Styrene	25	U
1330-20-7	Total Xylenes	25	U

Client: Kilbourn
Work Order: X2-05-060
20506006

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-04 0-6"
Lab Sample No:
X2-05-060-11
Date Sampled: 5/6/92
Date Analyzed: 5/8/92

% Moisture: not dec. N/A

Dilution Factor: 2.5

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	25	U
74-83-9	Bromomethane	25	U
75-01-4	Vinyl Chloride	25	U
75-00-3	Chloroethane	25	U
75-09-2	Methylene Chloride	18	
67-64-1	Acetone	25	U
75-15-0	Carbon Disulfide	27	
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-dichloroethene (Total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-dichloroethane	13	U
78-93-3	2-butanone	25	U
71-55-6	1,1,1-trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
108-05-4	Vinyl Acetate	25	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-dichloropropane	13	U
10061-01-5	cis-1,3-dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02-6	trans-1,3-dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-methyl-2-pentanone	25	U
591-78-6	2-hexanone	25	U
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-tetrachloroethane	13	U
108-88-3	Toluene	460	
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
1330-20-7	Total Xylenes	13	U

Client: Kilbourn
Work Order: X2-05-060
20506007

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-04 6-8'
Lab Sample No:
X2-05-060-12
Date Sampled: 5/6/92
Date Analyzed: 5/8/92

% Moisture: not dec. N/A

Dilution Factor: 2.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	25	U
74-83-9	Bromomethane	25	U
75-01-4	Vinyl Chloride	25	U
75-00-3	Chloroethane	25	U
75-09-2	Methylene Chloride	44	B
67-64-1	Acetone	25	U
75-15-0	Carbon Disulfide	29	
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-dichloroethene (Total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-dichloroethane	13	U
78-93-3	2-butanone	25	U
71-55-6	1,1,1-trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
108-05-4	Vinyl Acetate	25	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-dichloropropane	13	U
10061-01-5	cis-1,3-dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02-6	trans-1,3-dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-methyl-2-pentanone	25	U
591-78-6	2-hexanone	25	U
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-tetrachloroethane	13	U
108-88-3	Toluene	500	
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
1330-20-7	Total Xylenes	35	

Client: Kilbourn
Work Order: X2-05-060
20506008

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-07 0-6"
Lab Sample No:
X2-05-060-13
Date Sampled: 5/6/92
Date Analyzed: 5/8/92

% Moisture: not dec. N/A

Dilution Factor: 2.5

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	25	U
74-83-9	Bromomethane	25	U
75-01-4	Vinyl Chloride	25	U
75-00-3	Chloroethane	25	U
75-09-2	Methylene Chloride	45	
67-64-1	Acetone	25	U
75-15-0	Carbon Disulfide	28	
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-dichloroethene (Total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-dichloroethane	13	U
78-93-3	2-butanone	25	U
71-55-6	1,1,1-trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
108-05-4	Vinyl Acetate	25	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-dichloropropane	13	U
10061-01-5	cis-1,3-dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02-6	trans-1,3-dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-methyl-2-pentanone	25	U
591-78-6	2-hexanone	25	U
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-tetrachloroethane	13	U
108-88-3	Toluene	150	
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	3	J
100-42-5	Styrene	13	U
1330-20-7	Total Xylenes	13	U

Client: Kilbourn
Work Order: X2-05-060
20506009

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-07 0-6"DUP
Lab Sample No:
X2-05-060-14
Date Sampled: 5/6/92
Date Analyzed: 5/8/92

% Moisture: not dec. N/A

Dilution Factor: 2.5

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	25	U
74-83-9	Bromomethane	25	U
75-01-4	Vinyl Chloride	25	U
75-00-3	Chloroethane	25	U
75-09-2	Methylene Chloride	39	
67-64-1	Acetone	25	U
75-15-0	Carbon Disulfide	29	
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-dichloroethene (Total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-dichloroethane	13	U
78-93-3	2-butanone	25	U
71-55-6	1,1,1-trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
108-05-4	Vinyl Acetate	25	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-dichloropropane	13	U
10061-01-5	cis-1,3-dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02-6	trans-1,3-dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-methyl-2-pentanone	25	U
591-78-6	2-hexanone	25	U
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-tetrachloroethane	13	U
108-88-3	Toluene	79	
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	3	J
100-42-5	Styrene	13	U
1330-20-7	Total Xylenes	13	U

Client: Kilbourn
Work Order: X2-05-060
20506010

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-07 6-8'
Lab Sample No:
X2-05-060-15
Date Sampled: 5/6/92
Date Analyzed: 5/8/92

% Moisture: not dec. N/A

Dilution Factor: 2.5

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	25	U
74-83-9	Bromomethane	25	U
75-01-4	Vinyl Chloride	25	U
75-00-3	Chloroethane	25	U
75-09-2	Methylene Chloride	9	J B
67-64-1	Acetone	25	U
75-15-0	Carbon Disulfide	5	J
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-dichloroethene (Total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-dichloroethane	13	U
78-93-3	2-butanone	25	U
71-55-6	1,1,1-trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
108-05-4	Vinyl Acetate	25	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-dichloropropane	13	U
10061-01-5	cis-1,3-dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02-6	trans-1,3-dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-methyl-2-pentanone	25	U
591-78-6	2-hexanone	25	U
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-tetrachloroethane	13	U
108-88-3	Toluene	100	
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
1330-20-7	Total Xylenes	13	U

Client: Kilbourn
Work Order: X2-05-060
20506011

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-05 0-6"
Lab Sample No:
X2-05-060-16
Date Sampled: 5/6/92
Date Analyzed: 5/9/92

% Moisture: not dec. N/A

Dilution Factor: 2.5

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	25	U
74-83-9	Bromomethane	25	U
75-01-4	Vinyl Chloride	25	U
75-00-3	Chloroethane	25	U
75-09-2	Methylene Chloride	27	B
67-64-1	Acetone	24	J
75-15-0	Carbon Disulfide	23	
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-dichloroethene (Total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-dichloroethane	13	U
78-93-3	2-butanone	19	J
71-55-6	1,1,1-trichloroethane	5	J
56-23-5	Carbon Tetrachloride	13	U
108-05-4	Vinyl Acetate	25	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-dichloropropane	13	U
10061-01-5	cis-1,3-dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02-6	trans-1,3-dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-methyl-2-pentanone	25	U
591-78-6	2-hexanone	25	U
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-tetrachloroethane	13	U
108-88-3	Toluene	370	
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
1330-20-7	Total Xylenes	7	J

Client: Kilbourn
Work Order: X2-05-060
20506012

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-05 6-8'
Lab Sample No:
X2-05-060-17
Date Sampled: 5/6/92
Date Analyzed: 5/9/92

% Moisture: not dec. N/A

Dilution Factor: 5

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl Chloride	50	U
75-00-3	Chloroethane	50	U
75-09-2	Methylene Chloride	49	
67-64-1	Acetone	50	U
75-15-0	Carbon Disulfide	37	
75-35-4	1,1-Dichloroethene	25	U
75-34-3	1,1-Dichloroethane	25	U
540-59-0	1,2-dichloroethene (Total)	25	U
67-66-3	Chloroform	25	U
107-06-2	1,2-dichloroethane	25	U
78-93-3	2-butanone	50	U
71-55-6	1,1,1-trichloroethane	13	J
56-23-5	Carbon Tetrachloride	25	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	25	U
78-87-5	1,2-dichloropropane	25	U
10061-01-5	cis-1,3-dichloropropene	25	U
79-01-6	Trichloroethene	25	U
124-48-1	Dibromochloromethane	25	U
79-00-5	1,1,2-trichloroethane	25	U
71-43-2	Benzene	25	U
10061-02-6	trans-1,3-dichloropropene	25	U
75-25-2	Bromoform	25	U
108-10-1	4-methyl-2-pentanone	50	U
591-78-6	2-hexanone	50	U
127-18-4	Tetrachloroethene	20	J
79-34-5	1,1,2,2-tetrachloroethane	20	J
108-88-3	Toluene	720	
108-90-7	Chlorobenzene	25	U
100-41-4	Ethylbenzene	25	U
100-42-5	Styrene	25	U
1330-20-7	Total Xylenes	41	

Client: Kilbourn
Work Order: X2-05-060
20506013

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-16 0-6'
Lab Sample No:
X2-05-060-18
Date Sampled: 5/6/92
Date Analyzed: 5/9/92

% Moisture: not dec. N/A

Dilution Factor: 5

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl Chloride	50	U
75-00-3	Chloroethane	50	U
75-09-2	Methylene Chloride	51	
67-64-1	Acetone	50	U
75-15-0	Carbon Disulfide	42	
75-35-4	1,1-Dichloroethene	25	U
75-34-3	1,1-Dichloroethane	25	U
540-59-0	1,2-dichloroethene (Total)	25	U
67-66-3	Chloroform	25	U
107-06-2	1,2-dichloroethane	25	U
78-93-3	2-butanone	50	U
71-55-6	1,1,1-trichloroethane	12	J
56-23-5	Carbon Tetrachloride	25	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	25	U
78-87-5	1,2-dichloropropane	25	U
10061-01-5	cis-1,3-dichloropropene	25	U
79-01-6	Trichloroethene	25	U
124-48-1	Dibromochloromethane	25	U
79-00-5	1,1,2-trichloroethane	25	U
71-43-2	Benzene	25	U
10061-02-6	trans-1,3-dichloropropene	25	U
75-25-2	Bromoform	25	U
108-10-1	4-methyl-2-pentanone	50	U
591-78-6	2-hexanone	50	U
127-18-4	Tetrachloroethene	25	U
79-34-5	1,1,2,2-tetrachloroethane	25	U
108-88-3	Toluene	670	
108-90-7	Chlorobenzene	25	U
100-41-4	Ethylbenzene	25	U
100-42-5	Styrene	25	U
1330-20-7	Total Xylenes	25	U

Client: Kilbourn
Work Order: X2-05-060
20506014

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-16 4-6'
Lab Sample No:
X2-05-060-19
Date Sampled: 5/6/92
Date Analyzed: 5/14/92

% Moisture: not dec. N/A

Dilution Factor: 1250

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	12500	U
74-83-9	Bromomethane	12500	U
75-01-4	Vinyl Chloride	12500	U
75-00-3	Chloroethane	12500	U
75-09-2	Methylene Chloride	1700	J
67-64-1	Acetone	12500	U
75-15-0	Carbon Disulfide	6250	U
75-35-4	1,1-Dichloroethene	6250	U
75-34-3	1,1-Dichloroethane	6250	U
540-59-0	1,2-dichloroethene (Total)	6250	U
67-66-3	Chloroform	6250	U
107-06-2	1,2-dichloroethane	6250	U
78-93-3	2-butanone	12500	U
71-55-6	1,1,1-trichloroethane	6250	U
56-23-5	Carbon Tetrachloride	6250	U
108-05-4	Vinyl Acetate	12500	U
75-27-4	Bromodichloromethane	6250	U
78-87-5	1,2-dichloropropane	6250	U
10061-01-5	cis-1,3-dichloropropene	6250	U
79-01-6	Trichloroethene	6250	U
124-48-1	Dibromochloromethane	6250	U
79-00-5	1,1,2-trichloroethane	6250	U
71-43-2	Benzene	6250	U
10061-02-6	trans-1,3-dichloropropene	6250	U
75-25-2	Bromoform	6250	U
108-10-1	4-methyl-2-pentanone	12500	U
591-78-6	2-hexanone	12500	U
127-18-4	Tetrachloroethene	6250	U
79-34-5	1,1,2,2-tetrachloroethane	6250	U
108-88-3	Toluene	6250	U
108-90-7	Chlorobenzene	6250	U
100-41-4	Ethylbenzene	6250	U
100-42-5	Styrene	6250	U
1330-20-7	Total Xylenes	6250	U

Client: Kilbourn
Work Order: X2-05-060
20506015

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-16 6-8'
Lab Sample No:
X2-05-060-20
Date Sampled: 5/6/92
Date Analyzed: 5/14/92

% Moisture: not dec. N/A

Dilution Factor: 1250

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	12500	U
74-83-9	Bromomethane	12500	U
75-01-4	Vinyl Chloride	12500	U
75-00-3	Chloroethane	12500	U
75-09-2	Methylene Chloride	6250	U
67-64-1	Acetone	12500	U
75-15-0	Carbon Disulfide	6250	U
75-35-4	1,1-Dichloroethene	6250	U
75-34-3	1,1-Dichloroethane	6250	U
540-59-0	1,2-dichloroethene (Total)	6250	U
67-66-3	Chloroform	6250	U
107-06-2	1,2-dichloroethane	6250	U
78-93-3	2-butanone	12500	U
71-55-6	1,1,1-trichloroethane	6250	U
56-23-5	Carbon Tetrachloride	6250	U
108-05-4	Vinyl Acetate	12500	U
75-27-4	Bromodichloromethane	6250	U
78-87-5	1,2-dichloropropane	6250	U
10061-01-5	cis-1,3-dichloropropene	6250	U
79-01-6	Trichloroethene	6250	U
124-48-1	Dibromochloromethane	6250	U
79-00-5	1,1,2-trichloroethane	6250	U
71-43-2	Benzene	6250	U
10061-02-6	trans-1,3-dichloropropene	6250	U
75-25-2	Bromoform	6250	U
108-10-1	4-methyl-2-pentanone	12500	U
591-78-6	2-hexanone	12500	U
127-18-4	Tetrachloroethene	6250	U
79-34-5	1,1,2,2-tetrachloroethane	6250	U
108-88-3	Toluene	2900	J
108-90-7	Chlorobenzene	6250	U
100-41-4	Ethylbenzene	6250	U
100-42-5	Styrene	6250	U
1330-20-7	Total Xylenes	6250	U

Client: Kilbourn
Work Order: X2-05-060
20506016

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-08 0-6"
Lab Sample No:
X2-05-060-21
Date Sampled: 5/6/92
Date Analyzed: 5/9/92

% Moisture: not dec. N/A

Dilution Factor: 2.5

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	25	U
74-83-9	Bromomethane	25	U
75-01-4	Vinyl Chloride	25	U
75-00-3	Chloroethane	25	U
75-09-2	Methylene Chloride	22	
67-64-1	Acetone	25	U
75-15-0	Carbon Disulfide	20	
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-dichloroethene (Total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-dichloroethane	13	U
78-93-3	2-butanone	8	J
71-55-6	1,1,1-trichloroethane	7	J
56-23-5	Carbon Tetrachloride	13	U
108-05-4	Vinyl Acetate	25	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-dichloropropane	13	U
10061-01-5	cis-1,3-dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02-6	trans-1,3-dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-methyl-2-pentanone	25	U
591-78-6	2-hexanone	25	U
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-tetrachloroethane	13	U
108-88-3	Toluene	33	
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
1330-20-7	Total Xylenes	13	U

Client: Kilbourn
Work Order: X2-05-060
20506017

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:

Lab Sample No:
Method Blank - VBLK07

Date Analyzed: 5/8/92

% Moisture: not dec. N/A

Dilution Factor: 1

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-dichloroethene (Total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-dichloroethane	5	U
78-93-3	2-butanone	10	U
71-55-6	1,1,1-trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-dichloropropane	5	U
10061-01-5	cis-1,3-dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-methyl-2-pentanone	10	U
591-78-6	2-hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

Client: Kilbourn
Work Order: X2-05-060
20506018

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:

Lab Sample No:
Method Blank - VBLK06

Date Analyzed: 5/8/92

% Moisture: not dec. N/A

Dilution Factor: 1

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	1	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-dichloroethene (Total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-dichloroethane	5	U
78-93-3	2-butanone	10	U
71-55-6	1,1,1-trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-dichloropropane	5	U
10061-01-5	cis-1,3-dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-methyl-2-pentanone	10	U
591-78-6	2-hexanone	2	J
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

Client: Kilbourn
Work Order: X2-05-060
20506020

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-14 0-6"
Lab Sample No:
X2-05-060-01
Date Sampled: 5/6/92
Date Analyzed: 5/8/92

% Moisture: not dec. N/A

Dilution Factor: 1

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	4	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	3	J
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-dichloroethene (Total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-dichloroethane	5	U
78-93-3	2-butanone	10	U
71-55-6	1,1,1-trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-dichloropropane	5	U
10061-01-5	cis-1,3-dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-methyl-2-pentanone	10	U
591-78-6	2-hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-tetrachloroethane	5	U
108-88-3	Toluene	230	
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

Client: Kilbourn
Work Order: X2-05-060
20506021

IT ANALYTICAL SERVICES
CINCINNATI, OH

Quality Assurance Data

Volatile
Surrogate Recovery, Percent
X2-05-060

Client Sample ID	Lab No.	d4-1,2-Dichloro-ethane	d8-Toluene	p-Bromo-fluoro-benzene
Soil # SB-14 0-6"	01	95	107	94
Soil # SB-14 6-8'	03	96	107	95
Soil # SB-11 0-6"	04	92	107	89
Soil # SB-11 6-8'	06	96	103	94
Soil # SB-13 0-6'	07	91	106	91
Soil # SB-13 4-6'	08	102	108	97
Soil # SB-13 6-8'	09	99	106	92
Soil # SB-05 0-6"	16	96	102	96
Soil # SB-05 6-8'	17	89	109	81
Soil # SB-16 0-6'	18	89	106	82
Soil # SB-16 4-6'	19	98	105	93
Soil # SB-16 6-8'	20	98	104	98
Soil # SB-08 0-6"	21	93	104	100
Method Blank	VBLK07	92	101	96
Method Blank	VBLKP7	98	104	98

Client: Kilbourn
Work Order: X2-05-060
20506023

IT ANALYTICAL SERVICES
CINCINNATI, OH

Analytical Results, S.U.
X2-05-060

Client Sample ID	Lab No.	pH
Soil # SB-14 0-6"	01	7.82
Soil # SB-14 4-6'	02	8.12
Soil # SB-14 6-8'	03	7.54
Soil # SB-11 0-6"	04	7.53
Soil # SB-11 4-6'	05	7.55
Soil # SB-11 6-8'	06	7.67
Soil # SB-13 0-6'	07	7.64
Soil # SB-13 4-6'	08	7.34
Soil # SB-13 6-8'	09	7.95
Soil # SB-08 6-8'	10	8.32
Soil # SB-04 0-6"	11	7.83
Soil # SB-04 6-8'	12	7.69
Soil # SB-07 0-6"	13	7.96
Soil # SB-07 0-6"DUP	14	7.08
Soil # SB-05 0-6"	16	7.75
Soil # SB-05 6-8'	17	7.48
Soil # SB-16 0-6'	18	8.10
Soil # SB-16 4-6'	19	7.76
Soil # SB-16 6-8'	20	7.21
Soil # SB-08 0-6"	21	7.70

Client: Kilbourn
Work Order: X2-05-060
20506050

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-14 4-6"
Lab Sample No:
X2-05-060-02
Date Sampled: 5/6/92
Date Analyzed: 5/8/92

% Moisture: not dec. N/A

Dilution Factor: 2.5

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	25	U
74-83-9	Bromomethane	25	U
75-01-4	Vinyl Chloride	25	U
75-00-3	Chloroethane	25	U
75-09-2	Methylene Chloride	12	J B
67-64-1	Acetone	25	U
75-15-0	Carbon Disulfide	8	J
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-dichloroethene (Total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-dichloroethane	13	U
78-93-3	2-butanone	25	U
71-55-6	1,1,1-trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
108-05-4	Vinyl Acetate	25	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-dichloropropane	13	U
10061-01-5	cis-1,3-dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02-6	trans-1,3-dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-methyl-2-pentanone	25	U
591-78-6	2-hexanone	25	U
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-tetrachloroethane	13	U
108-88-3	Toluene	170	
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
1330-20-7	Total Xylenes	13	U

Client: Kilbourn
Work Order: X2-05-060
20506051

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-11 4-6'
Lab Sample No:
X2-05-060-05
Date Sampled: 5/6/92
Date Analyzed: 5/8/92

% Moisture: not dec. N/A

Dilution Factor: 5

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl Chloride	50	U
75-00-3	Chloroethane	50	U
75-09-2	Methylene Chloride	26	
67-64-1	Acetone	50	U
75-15-0	Carbon Disulfide	33	
75-35-4	1,1-Dichloroethene	25	U
75-34-3	1,1-Dichloroethane	25	U
540-59-0	1,2-dichloroethene (Total)	25	U
67-66-3	Chloroform	25	U
107-06-2	1,2-dichloroethane	25	U
78-93-3	2-butanone	50	U
71-55-6	1,1,1-trichloroethane	25	U
56-23-5	Carbon Tetrachloride	25	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	25	U
78-87-5	1,2-dichloropropane	25	U
10061-01-5	cis-1,3-dichloropropene	25	U
79-01-6	Trichloroethene	25	U
124-48-1	Dibromochloromethane	25	U
79-00-5	1,1,2-trichloroethane	25	U
71-43-2	Benzene	25	U
10061-02-6	trans-1,3-dichloropropene	25	U
75-25-2	Bromoform	25	U
108-10-1	4-methyl-2-pentanone	50	U
591-78-6	2-hexanone	50	U
127-18-4	Tetrachloroethene	25	U
79-34-5	1,1,2,2-tetrachloroethane	25	U
108-88-3	Toluene	25	U
108-90-7	Chlorobenzene	9	J
100-41-4	Ethylbenzene	25	U
100-42-5	Styrene	25	U
1330-20-7	Total Xylenes	25	U

Client: Kilbourn
Work Order: X2-05-060
20506052

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-11 6-8'
Lab Sample No:
X2-05-060-06
Date Sampled: 5/6/92
Date Analyzed: 5/8/92&
5/14/92
Dilution Factor: 5

% Moisture: not dec. N/A

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl Chloride	50	U
75-00-3	Chloroethane	50	U
75-09-2	Methylene Chloride	31	
67-64-1	Acetone	50	U
75-15-0	Carbon Disulfide	35	
75-35-4	1,1-Dichloroethene	25	U
75-34-3	1,1-Dichloroethane	25	U
540-59-0	1,2-dichloroethene (Total)	25	U
67-66-3	Chloroform	25	U
107-06-2	1,2-dichloroethane	25	U
78-93-3	2-butanone	50	U
71-55-6	1,1,1-trichloroethane	25	U
56-23-5	Carbon Tetrachloride	25	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	25	U
78-87-5	1,2-dichloropropane	25	U
10061-01-5	cis-1,3-dichloropropene	25	U
79-01-6	Trichloroethene	25	U
124-48-1	Dibromochloromethane	25	U
79-00-5	1,1,2-trichloroethane	25	U
71-43-2	Benzene	25	U
10061-02-6	trans-1,3-dichloropropene	25	U
75-25-2	Bromoform	25	U
108-10-1	4-methyl-2-pentanone	50	U
591-78-6	2-hexanone	50	U
127-18-4	Tetrachloroethene	25	U
79-34-5	1,1,2,2-tetrachloroethane	25	U
108-88-3	Toluene	2500	E
108-90-7	Chlorobenzene	25	U
100-41-4	Ethylbenzene	25	U
100-42-5	Styrene	25	U
1330-20-7	Total Xylenes	8	J

Client: Kilbourn
Work Order: X2-05-060
20506053

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-11 0-6"
Lab Sample No:
X2-05-060-04
Date Sampled: 5/6/92
Date Analyzed: 5/8/92

% Moisture: not dec. N/A

Dilution Factor: 1

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	6	B
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	3	J
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-dichloroethene (Total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-dichloroethane	5	U
78-93-3	2-butanone	10	U
71-55-6	1,1,1-trichloroethane	8	
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-dichloropropane	5	U
10061-01-5	cis-1,3-dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-methyl-2-pentanone	10	U
591-78-6	2-hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	360	
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

Client: Kilbourn
Work Order: X2-05-060
20506054

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-14 6-8'
Lab Sample No:
X2-05-060-03
Date Sampled: 5/6/92
Date Analyzed: 5/8/92

% Moisture: not dec. N/A

Dilution Factor: 2.5

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	25	U
74-83-9	Bromomethane	25	U
75-01-4	Vinyl Chloride	25	U
75-00-3	Chloroethane	25	U
75-09-2	Methylene Chloride	10	J
67-64-1	Acetone	25	U
75-15-0	Carbon Disulfide	9	J
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-dichloroethene (Total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-dichloroethane	13	U
78-93-3	2-butanone	25	U
71-55-6	1,1,1-trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
108-05-4	Vinyl Acetate	25	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-dichloropropane	13	U
10061-01-5	cis-1,3-dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02-6	trans-1,3-dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-methyl-2-pentanone	25	U
591-78-6	2-hexanone	25	U
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-tetrachloroethane	13	U
108-88-3	Toluene	13	U
108-90-7	Chlorobenzene	1500	
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
1330-20-7	Total Xylenes	13	U

Client: Kilbourn
Work Order: X2-05-060
20506055

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:

Lab Sample No:
Method Blank - VBLKP7

Date Analyzed: 5/14/92

% Moisture: not dec. N/A

Dilution Factor: 125

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	1250	U
74-83-9	Bromomethane	1250	U
75-01-4	Vinyl Chloride	1250	U
75-00-3	Chloroethane	1250	U
75-09-2	Methylene Chloride	625	U
67-64-1	Acetone	1250	U
75-15-0	Carbon Disulfide	625	U
75-35-4	1,1-Dichloroethene	625	U
75-34-3	1,1-Dichloroethane	625	U
540-59-0	1,2-dichloroethene (Total)	625	U
67-66-3	Chloroform	625	U
107-06-2	1,2-dichloroethane	625	U
78-93-3	2-butanone	1250	U
71-55-6	1,1,1-trichloroethane	625	U
56-23-5	Carbon Tetrachloride	625	U
108-05-4	Vinyl Acetate	1250	U
75-27-4	Bromodichloromethane	625	U
78-87-5	1,2-dichloropropane	625	U
10061-01-5	cis-1,3-dichloropropene	625	U
79-01-6	Trichloroethene	625	U
124-48-1	Dibromochloromethane	625	U
79-00-5	1,1,2-trichloroethane	625	U
71-43-2	Benzene	625	U
10061-02-6	trans-1,3-dichloropropene	625	U
75-25-2	Bromoform	625	U
108-10-1	4-methyl-2-pentanone	1250	U
591-78-6	2-hexanone	1250	U
127-18-4	Tetrachloroethene	625	U
79-34-5	1,1,2,2-tetrachloroethane	625	U
108-88-3	Toluene	625	U
108-90-7	Chlorobenzene	625	U
100-41-4	Ethylbenzene	625	U
100-42-5	Styrene	625	U
1330-20-7	Total Xylenes	625	U

Client: Kilbourn
Work Order: X2-05-062
20506202

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-15 0-6"
Lab Sample No:
X2-05-062-01
Date Sampled: 5/6/92
Date Analyzed: 5/9/92

% Moisture: not dec. N/A

Dilution Factor: 2.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	25	U
74-83-9	Bromomethane	25	U
75-01-4	Vinyl Chloride	25	U
75-00-3	Chloroethane	25	U
75-09-2	Methylene Chloride	26	
67-64-1	Acetone	25	U
75-15-0	Carbon Disulfide	24	
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-dichloroethene (Total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-dichloroethane	13	U
78-93-3	2-butanone	25	U
71-55-6	1,1,1-trichloroethane	7	J
56-23-5	Carbon Tetrachloride	13	U
108-05-4	Vinyl Acetate	25	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-dichloropropane	13	U
10061-01-5	cis-1,3-dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02-6	trans-1,3-dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-methyl-2-pentanone	25	U
591-78-6	2-hexanone	25	U
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-tetrachloroethane	13	U
108-88-3	Toluene	337	
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
1330-20-7	Total Xylenes	5	J

Client: Kilbourn
Work Order: X2-05-062
20506203

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-15 4-6'
Lab Sample No:
X2-05-062-02
Date Sampled: 5/6/92
Date Analyzed: 5/9/92

% Moisture: not dec. N/A

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	3	J
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-dichloroethene (Total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-dichloroethane	5	U
78-93-3	2-butanone	10	U
71-55-6	1,1,1-trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-dichloropropane	5	U
10061-01-5	cis-1,3-dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-methyl-2-pentanone	10	U
591-78-6	2-hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-tetrachloroethane	5	U
108-88-3	Toluene	42	
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

Client: Kilbourn
Work Order: X2-05-062
20506204

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-15 6-8'
Lab Sample No:
X2-05-062-03
Date Sampled: 5/6/92
Date Analyzed: 5/9/92

% Moisture: not dec. N/A

Dilution Factor: 2.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	25	U
74-83-9	Bromomethane	25	U
75-01-4	Vinyl Chloride	25	U
75-00-3	Chloroethane	25	U
75-09-2	Methylene Chloride	7	J
67-64-1	Acetone	7	J
75-15-0	Carbon Disulfide	9	J
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-dichloroethene (Total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-dichloroethane	13	U
78-93-3	2-butanone	25	U
71-55-6	1,1,1-trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
108-05-4	Vinyl Acetate	25	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-dichloropropane	13	U
10061-01-5	cis-1,3-dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02-6	trans-1,3-dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-methyl-2-pentanone	25	U
591-78-6	2-hexanone	25	U
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-tetrachloroethane	13	U
108-88-3	Toluene	710	
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
1330-20-7	Total Xylenes	13	U

Client: Kilbourn
Work Order: X2-05-062
20506205

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-06 0-6"
Lab Sample No:
X2-05-062-04
Date Sampled: 5/6/92
Date Analyzed: 5/9/92

% Moisture: not dec. N/A

Dilution Factor: 2.5

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	25	U
74-83-9	Bromomethane	25	U
75-01-4	Vinyl Chloride	25	U
75-00-3	Chloroethane	25	U
75-09-2	Methylene Chloride	14	
67-64-1	Acetone	25	U
75-15-0	Carbon Disulfide	8	J
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-dichloroethene (Total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-dichloroethane	13	U
78-93-3	2-butanone	25	U
71-55-6	1,1,1-trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
108-05-4	Vinyl Acetate	25	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-dichloropropane	13	U
10061-01-5	cis-1,3-dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02-6	trans-1,3-dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-methyl-2-pentanone	25	U
591-78-6	2-hexanone	25	U
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-tetrachloroethane	13	U
108-88-3	Toluene	340	
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
1330-20-7	Total Xylenes	13	U

Client: Kilbourn
Work Order: X2-05-062
20506206

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-06 6-8'
Lab Sample No:
X2-05-062-05
Date Sampled: 5/6/92
Date Analyzed: 5/9/92

% Moisture: not dec. N/A

Dilution Factor: 5

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl Chloride	50	U
75-00-3	Chloroethane	50	U
75-09-2	Methylene Chloride	17	J
67-64-1	Acetone	19	J
75-15-0	Carbon Disulfide	25	U
75-35-4	1,1-Dichloroethene	25	U
75-34-3	1,1-Dichloroethane	25	U
540-59-0	1,2-dichloroethene (Total)	25	U
67-66-3	Chloroform	25	U
107-06-2	1,2-dichloroethane	25	U
78-93-3	2-butanone	50	U
71-55-6	1,1,1-trichloroethane	25	U
56-23-5	Carbon Tetrachloride	25	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	25	U
78-87-5	1,2-dichloropropane	25	U
10061-01-5	cis-1,3-dichloropropene	25	U
79-01-6	Trichloroethene	25	U
124-48-1	Dibromochloromethane	25	U
79-00-5	1,1,2-trichloroethane	25	U
71-43-2	Benzene	25	U
10061-02-6	trans-1,3-dichloropropene	25	U
75-25-2	Bromoform	25	U
108-10-1	4-methyl-2-pentanone	50	U
591-78-6	2-hexanone	50	U
127-18-4	Tetrachloroethene	25	U
79-34-5	1,1,2,2-tetrachloroethane	25	U
108-88-3	Toluene	1950	E
108-90-7	Chlorobenzene	25	U
100-41-4	Ethylbenzene	75	
100-42-5	Styrene	25	U
1330-20-7	Total Xylenes	2800	E

Client: Kilbourn
Work Order: X2-05-062
20506207

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Water

Client Sample ID:
Water # TB-02
Lab Sample No:
X2-05-062-06
Date Sampled: 5/6/92
Date Analyzed: 5/13/92

% Moisture: not dec. N/A

Dilution Factor: 1

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	3	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	2	J
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-dichloroethene (Total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-dichloroethane	5	U
78-93-3	2-butanone	10	U
71-55-6	1,1,1-trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-dichloropropane	5	U
10061-01-5	cis-1,3-dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-methyl-2-pentanone	10	U
591-78-6	2-hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

Client: Kilbourn
Work Order: X2-05-062
20506208

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-15 0-6"DUP
Lab Sample No:
X2-05-062-07
Date Sampled: 5/6/92
Date Analyzed: 5/9/92

% Moisture: not dec. N/A

Dilution Factor: 2.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	25	U
74-83-9	Bromomethane	25	U
75-01-4	Vinyl Chloride	25	U
75-00-3	Chloroethane	25	U
75-09-2	Methylene Chloride	24	
67-64-1	Acetone	25	U
75-15-0	Carbon Disulfide	21	
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-dichloroethene (Total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-dichloroethane	13	U
78-93-3	2-butanone	25	U
71-55-6	1,1,1-trichloroethane	7	J
56-23-5	Carbon Tetrachloride	13	U
108-05-4	Vinyl Acetate	25	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-dichloropropane	13	U
10061-01-5	cis-1,3-dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02-6	trans-1,3-dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-methyl-2-pentanone	25	U
591-78-6	2-hexanone	25	U
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-tetrachloroethane	13	U
108-88-3	Toluene	251	
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
1330-20-7	Total Xylenes	13	U

Client: Kilbourn
Work Order: X2-05-062
20506209

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:

Lab Sample No:
Method Blank - VBLK07

Date Analyzed: 5/9/92

% Moisture: not dec. N/A

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-dichloroethene (Total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-dichloroethane	5	U
78-93-3	2-butanone	10	U
71-55-6	1,1,1-trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-dichloropropane	5	U
10061-01-5	cis-1,3-dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-methyl-2-pentanone	10	U
591-78-6	2-hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

Client: Kilbourn
Work Order: X2-05-062
20506210

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:

Lab Sample No:
Method Blank - VBLK08

Date Analyzed: 5/9/92

% Moisture: not dec. N/A

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	1	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-dichloroethene (Total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-dichloroethane	5	U
78-93-3	2-butanone	10	U
71-55-6	1,1,1-trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-dichloropropane	5	U
10061-01-5	cis-1,3-dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-methyl-2-pentanone	10	U
591-78-6	2-hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

Client: Kilbourn
Work Order: X2-05-062
20506211

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:

Lab Sample No:
Method Blank - VBLKP7

Date Analyzed: 5/9/92

% Moisture: not dec. N/A

Dilution Factor: 1

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-dichloroethene (Total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-dichloroethane	5	U
78-93-3	2-butanone	10	U
71-55-6	1,1,1-trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-dichloropropane	5	U
10061-01-5	cis-1,3-dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-methyl-2-pentanone	10	U
591-78-6	2-hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

Client: Kilbourn
Work Order: X2-05-062
20506212

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:

Lab Sample No:
Method Blank - VBLKP3

Date Analyzed: 5/9/92

% Moisture: not dec. N/A

Dilution Factor: 1

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	1	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-dichloroethene (Total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-dichloroethane	5	U
78-93-3	2-butanone	10	U
71-55-6	1,1,1-trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-dichloropropane	5	U
10061-01-5	cis-1,3-dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-methyl-2-pentanone	10	U
591-78-6	2-hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

Client: Kilbourn
Work Order: X2-05-062
20506221

IT ANALYTICAL SERVICES
CINCINNATI, OH

Quality Assurance Data

Volatile
Surrogate Recovery, Percent
X2-05-062

Client Sample ID	Lab No.	d4-1,2-Dichloro-ethane	d8-Toluene	p-Bromo-fluoro-benzene
Soil # SB-15 0-6"	01	93	113	87
	01 DL	92	106	92
Soil # SB-15 4-6'	02	92	110	85
	02 DL	93	112	93
Soil # SB-15 6-8'	03	90	128*	61*
	03 DL	88	121*	77
Soil # SB-06 0-6"	04	90	105	91
	04 DL	93	104	99
Soil # SB-06 6-8'	05	88	140*	112
	05 DL	94	106	97
Water # TB-02	06	99	102	102
Soil # SB-15 0-6"DUP	07	93	104	93
Method Blank	VBLK07	92	101	96
Method Blank	VBLK08	92	103	99
Method Blank	VBLK10	98	108	103
Method Blank	VBLKP3	96	103	100

Client: Kilbourn
Work Order: X2-05-062
20506223

IT ANALYTICAL SERVICES
CINCINNATI, OH

Analytical Results, S.U.
X2-05-062

Client Sample ID	Lab No.	pH
Soil # SB-15 0-6"	01	7.89
Soil # SB-15 4-6'	02	7.48
Soil # SB-15 6-8'	03	8.08
Soil # SB-06 0-6"	04	7.22
Soil # SB-06 6-8'	05	7.72
Soil # SB-15 0-6"DUP	07	7.74

Client: Kilbourn
Work Order: X2-05-068
20506802

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-10 0-6"
Lab Sample No:
X2-05-068-01
Date Sampled: 5/7/92
Date Analyzed: 5/10/92

% Moisture: not dec. N/A

Dilution Factor: 5

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl Chloride	50	U
75-00-3	Chloroethane	50	U
75-09-2	Methylene Chloride	14	J
67-64-1	Acetone	50	U
75-15-0	Carbon Disulfide	7	J
75-35-4	1,1-Dichloroethene	25	U
75-34-3	1,1-Dichloroethane	25	U
540-59-0	1,2-dichloroethene (Total)	25	U
67-66-3	Chloroform	25	U
107-06-2	1,2-dichloroethane	25	U
78-93-3	2-butanone	50	U
71-55-6	1,1,1-trichloroethane	25	U
56-23-5	Carbon Tetrachloride	25	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	25	U
78-87-5	1,2-dichloropropane	25	U
10061-01-5	cis-1,3-dichloropropene	25	U
79-01-6	Trichloroethene	25	U
124-48-1	Dibromochloromethane	25	U
79-00-5	1,1,2-trichloroethane	25	U
71-43-2	Benzene	25	U
10061-02-6	trans-1,3-dichloropropene	25	U
75-25-2	Bromoform	25	U
108-10-1	4-methyl-2-pentanone	50	U
591-78-6	2-hexanone	50	U
127-18-4	Tetrachloroethene	25	U
79-34-5	1,1,2,2-tetrachloroethane	25	U
108-88-3	Toluene	980	
108-90-7	Chlorobenzene	25	U
100-41-4	Ethylbenzene	25	U
100-42-5	Styrene	25	U
1330-20-7	Total Xylenes	25	U

Client: Kilbourn
Work Order: X2-05-068
20506803

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-10 4-6'
Lab Sample No:
X2-05-068-02
Date Sampled: 5/7/92
Date Analyzed: 5/10/92

% Moisture: not dec. N/A

Dilution Factor: 5

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl Chloride	50	U
75-00-3	Chloroethane	50	U
75-09-2	Methylene Chloride	16	J
67-64-1	Acetone	50	U
75-15-0	Carbon Disulfide	7	J
75-35-4	1,1-Dichloroethene	25	U
75-34-3	1,1-Dichloroethane	25	U
540-59-0	1,2-dichloroethene (Total)	25	U
67-66-3	Chloroform	25	U
107-06-2	1,2-dichloroethane	25	U
78-93-3	2-butanone	50	U
71-55-6	1,1,1-trichloroethane	25	U
56-23-5	Carbon Tetrachloride	25	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	25	U
78-87-5	1,2-dichloropropane	25	U
10061-01-5	cis-1,3-dichloropropene	25	U
79-01-6	Trichloroethene	25	U
124-48-1	Dibromochloromethane	25	U
79-00-5	1,1,2-trichloroethane	25	U
71-43-2	Benzene	25	U
10061-02-6	trans-1,3-dichloropropene	25	U
75-25-2	Bromoform	25	U
108-10-1	4-methyl-2-pentanone	50	U
591-78-6	2-hexanone	50	U
127-18-4	Tetrachloroethene	25	U
79-34-5	1,1,2,2-tetrachloroethane	25	U
108-88-3	Toluene	230	
108-90-7	Chlorobenzene	25	U
100-41-4	Ethylbenzene	25	U
100-42-5	Styrene	25	U
1330-20-7	Total Xylenes	25	U

Client: Kilbourn
Work Order: X2-05-068
20506804

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-10 4-6'
Lab Sample No:
X2-05-068-02 RE
Date Sampled: 5/7/92
Date Analyzed: 5/16/92

% Moisture: not dec. N/A

Dilution Factor: 5

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl Chloride	50	U
75-00-3	Chloroethane	50	U
75-09-2	Methylene Chloride	10	J
67-64-1	Acetone	50	U
75-15-0	Carbon Disulfide	8	J
75-35-4	1,1-Dichloroethene	25	U
75-34-3	1,1-Dichloroethane	25	U
540-59-0	1,2-dichloroethene (Total)	25	U
67-66-3	Chloroform	23	J
107-06-2	1,2-dichloroethane	25	U
78-93-3	2-butanone	50	U
71-55-6	1,1,1-trichloroethane	25	U
56-23-5	Carbon Tetrachloride	25	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5	J
78-87-5	1,2-dichloropropane	25	U
10061-01-5	cis-1,3-dichloropropene	25	U
79-01-6	Trichloroethene	25	U
124-48-1	Dibromochloromethane	25	U
79-00-5	1,1,2-trichloroethane	25	U
71-43-2	Benzene	25	U
10061-02-6	trans-1,3-dichloropropene	25	U
75-25-2	Bromoform	25	U
108-10-1	4-methyl-2-pentanone	50	U
591-78-6	2-hexanone	50	U
127-18-4	Tetrachloroethene	25	U
79-34-5	1,1,2,2-tetrachloroethane	25	U
108-88-3	Toluene	86	
108-90-7	Chlorobenzene	25	U
100-41-4	Ethylbenzene	25	U
100-42-5	Styrene	25	U
1330-20-7	Total Xylenes	25	U

Client: Kilbourn
Work Order: X2-05-068
20506805

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-10 6-8'
Lab Sample No:
X2-05-068-03
Date Sampled: 5/7/92
Date Analyzed: 5/10/92

% Moisture: not dec. N/A

Dilution Factor: 5

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl Chloride	50	U
75-00-3	Chloroethane	50	U
75-09-2	Methylene Chloride	16	J B
67-64-1	Acetone	50	U
75-15-0	Carbon Disulfide	7	J
75-35-4	1,1-Dichloroethene	25	U
75-34-3	1,1-Dichloroethane	25	U
540-59-0	1,2-dichloroethene (Total)	25	U
67-66-3	Chloroform	23	J
107-06-2	1,2-dichloroethane	25	U
78-93-3	2-butanone	50	U
71-55-6	1,1,1-trichloroethane	25	U
56-23-5	Carbon Tetrachloride	25	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	25	U
78-87-5	1,2-dichloropropane	25	U
10061-01-5	cis-1,3-dichloropropene	25	U
79-01-6	Trichloroethene	25	U
124-48-1	Dibromochloromethane	25	U
79-00-5	1,1,2-trichloroethane	25	U
71-43-2	Benzene	25	U
10061-02-6	trans-1,3-dichloropropene	25	U
75-25-2	Bromoform	25	U
108-10-1	4-methyl-2-pentanone	50	U
591-78-6	2-hexanone	50	U
127-18-4	Tetrachloroethene	25	U
79-34-5	1,1,2,2-tetrachloroethane	25	U
108-88-3	Toluene	1400	
108-90-7	Chlorobenzene	25	U
100-41-4	Ethylbenzene	25	U
100-42-5	Styrene	25	U
1330-20-7	Total Xylenes	25	U

Client: Kilbourn
Work Order: X2-05-068
20506806

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-09 0-6'
Lab Sample No:
X2-05-068-04
Date Sampled: 5/7/92
Date Analyzed: 5/10/92

% Moisture: not dec. N/A

Dilution Factor: 5

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl Chloride	50	U
75-00-3	Chloroethane	50	U
75-09-2	Methylene Chloride	13	J
67-64-1	Acetone	50	U
75-15-0	Carbon Disulfide	5	J
75-35-4	1,1-Dichloroethene	25	U
75-34-3	1,1-Dichloroethane	25	U
540-59-0	1,2-dichloroethene (Total)	25	U
67-66-3	Chloroform	23	J
107-06-2	1,2-dichloroethane	25	U
78-93-3	2-butanone	50	U
71-55-6	1,1,1-trichloroethane	25	U
56-23-5	Carbon Tetrachloride	25	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	25	U
78-87-5	1,2-dichloropropane	25	U
10061-01-5	cis-1,3-dichloropropene	25	U
79-01-6	Trichloroethene	25	U
124-48-1	Dibromochloromethane	25	U
79-00-5	1,1,2-trichloroethane	25	U
71-43-2	Benzene	25	U
10061-02-6	trans-1,3-dichloropropene	25	U
75-25-2	Bromoform	25	U
108-10-1	4-methyl-2-pentanone	50	U
591-78-6	2-hexanone	50	U
127-18-4	Tetrachloroethene	25	U
79-34-5	1,1,2,2-tetrachloroethane	25	U
108-88-3	Toluene	850	
108-90-7	Chlorobenzene	25	U
100-41-4	Ethylbenzene	25	U
100-42-5	Styrene	25	U
1330-20-7	Total Xylenes	25	U

Client: Kilbourn
Work Order: X2-05-068
20506807

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-09 6-8'
Lab Sample No:
X2-05-068-05
Date Sampled: 5/7/92
Date Analyzed: 5/10/92

% Moisture: not dec. N/A

Dilution Factor: 5

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl Chloride	50	U
75-00-3	Chloroethane	50	U
75-09-2	Methylene Chloride	13	J
67-64-1	Acetone	50	U
75-15-0	Carbon Disulfide	6	J
75-35-4	1,1-Dichloroethene	25	U
75-34-3	1,1-Dichloroethane	25	U
540-59-0	1,2-dichloroethene (Total)	25	U
67-66-3	Chloroform	25	U
107-06-2	1,2-dichloroethane	25	U
78-93-3	2-butanone	50	U
71-55-6	1,1,1-trichloroethane	25	U
56-23-5	Carbon Tetrachloride	25	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	25	U
78-87-5	1,2-dichloropropane	25	U
10061-01-5	cis-1,3-dichloropropene	25	U
79-01-6	Trichloroethene	25	U
124-48-1	Dibromochloromethane	25	U
79-00-5	1,1,2-trichloroethane	25	U
71-43-2	Benzene	25	U
10061-02-6	trans-1,3-dichloropropene	25	U
75-25-2	Bromoform	25	U
108-10-1	4-methyl-2-pentanone	50	U
591-78-6	2-hexanone	50	U
127-18-4	Tetrachloroethene	25	U
79-34-5	1,1,2,2-tetrachloroethane	25	U
108-88-3	Toluene	190	
108-90-7	Chlorobenzene	25	U
100-41-4	Ethylbenzene	25	U
100-42-5	Styrene	25	U
1330-20-7	Total Xylenes	25	U

Client: Kilbourn
Work Order: X2-05-068
20506808

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-12 0-6"
Lab Sample No:
X2-05-068-06
Date Sampled: 5/7/92
Date Analyzed: 5/10/92&
5/15/92
Dilution Factor: 5

% Moisture: not dec. N/A

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl Chloride	50	U
75-00-3	Chloroethane	50	U
75-09-2	Methylene Chloride	15	J
67-64-1	Acetone	50	U
75-15-0	Carbon Disulfide	7	J
75-35-4	1,1-Dichloroethene	25	U
75-34-3	1,1-Dichloroethane	25	U
540-59-0	1,2-dichloroethene (Total)	25	U
67-66-3	Chloroform	25	U
107-06-2	1,2-dichloroethane	25	U
78-93-3	2-butanone	50	U
71-55-6	1,1,1-trichloroethane	25	U
56-23-5	Carbon Tetrachloride	25	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	25	U
78-87-5	1,2-dichloropropane	25	U
10061-01-5	cis-1,3-dichloropropene	25	U
79-01-6	Trichloroethene	25	U
124-48-1	Dibromochloromethane	25	U
79-00-5	1,1,2-trichloroethane	25	U
71-43-2	Benzene	25	U
10061-02-6	trans-1,3-dichloropropene	25	U
75-25-2	Bromoform	25	U
108-10-1	4-methyl-2-pentanone	50	U
591-78-6	2-hexanone	50	U
127-18-4	Tetrachloroethene	25	U
79-34-5	1,1,2,2-tetrachloroethane	25	U
108-88-3	Toluene	740	
108-90-7	Chlorobenzene	25	U
100-41-4	Ethylbenzene	25	U
100-42-5	Styrene	25	U
1330-20-7	Total Xylenes	25	U

Client: Kilbourn
Work Order: X2-05-068
20506809

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-12 6-8'
Lab Sample No:
X2-05-068-07
Date Sampled: 5/7/92
Date Analyzed: 5/10/92

% Moisture: not dec. N/A

Dilution Factor: 5

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl Chloride	50	U
75-00-3	Chloroethane	50	U
75-09-2	Methylene Chloride	18	J
67-64-1	Acetone	50	U
75-15-0	Carbon Disulfide	7	J
75-35-4	1,1-Dichloroethene	25	U
75-34-3	1,1-Dichloroethane	25	U
540-59-0	1,2-dichloroethene (Total)	25	U
67-66-3	Chloroform	25	U
107-06-2	1,2-dichloroethane	25	U
78-93-3	2-butanone	50	U
71-55-6	1,1,1-trichloroethane	25	U
56-23-5	Carbon Tetrachloride	25	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	25	U
78-87-5	1,2-dichloropropane	25	U
10061-01-5	cis-1,3-dichloropropene	25	U
79-01-6	Trichloroethene	25	U
124-48-1	Dibromochloromethane	25	U
79-00-5	1,1,2-trichloroethane	25	U
71-43-2	Benzene	25	U
10061-02-6	trans-1,3-dichloropropene	25	U
75-25-2	Bromoform	25	U
108-10-1	4-methyl-2-pentanone	50	U
591-78-6	2-hexanone	50	U
127-18-4	Tetrachloroethene	25	U
79-34-5	1,1,2,2-tetrachloroethane	25	U
108-88-3	Toluene	1094	
108-90-7	Chlorobenzene	25	U
100-41-4	Ethylbenzene	25	U
100-42-5	Styrene	25	U
1330-20-7	Total Xylenes	25	U

Client: Kilbourn
Work Order: X2-05-068
20506810

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-17 0-6"
Lab Sample No:
X2-05-068-08
Date Sampled: 5/7/92
Date Analyzed: 5/10/92

% Moisture: not dec. N/A

Dilution Factor: 5

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl Chloride	50	U
75-00-3	Chloroethane	50	U
75-09-2	Methylene Chloride	16	J
67-64-1	Acetone	50	U
75-15-0	Carbon Disulfide	6	J
75-35-4	1,1-Dichloroethene	25	U
75-34-3	1,1-Dichloroethane	25	U
540-59-0	1,2-dichloroethene (Total)	25	U
67-66-3	Chloroform	25	U
107-06-2	1,2-dichloroethane	25	U
78-93-3	2-butanone	50	U
71-55-6	1,1,1-trichloroethane	25	U
56-23-5	Carbon Tetrachloride	25	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	25	U
78-87-5	1,2-dichloropropane	25	U
10061-01-5	cis-1,3-dichloropropene	25	U
79-01-6	Trichloroethene	25	U
124-48-1	Dibromochloromethane	25	U
79-00-5	1,1,2-trichloroethane	25	U
71-43-2	Benzene	25	U
10061-02-6	trans-1,3-dichloropropene	25	U
75-25-2	Bromoform	25	U
108-10-1	4-methyl-2-pentanone	50	U
591-78-6	2-hexanone	50	U
127-18-4	Tetrachloroethene	25	U
79-34-5	1,1,2,2-tetrachloroethane	25	U
108-88-3	Toluene	1400	
108-90-7	Chlorobenzene	25	U
100-41-4	Ethylbenzene	25	U
100-42-5	Styrene	25	U
1330-20-7	Total Xylenes	25	U

Client: Kilbourn
Work Order: X2-05-068
20506811

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-17 3.5-4.5
Lab Sample No:
X2-05-068-09
Date Sampled: 5/7/92
Date Analyzed: 5/10/92

% Moisture: not dec. N/A

Dilution Factor: 5

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl Chloride	50	U
75-00-3	Chloroethane	50	U
75-09-2	Methylene Chloride	16	J
67-64-1	Acetone	50	U
75-15-0	Carbon Disulfide	7	J
75-35-4	1,1-Dichloroethene	25	U
75-34-3	1,1-Dichloroethane	25	U
540-59-0	1,2-dichloroethene (Total)	25	U
67-66-3	Chloroform	25	U
107-06-2	1,2-dichloroethane	25	U
78-93-3	2-butanone	50	U
71-55-6	1,1,1-trichloroethane	25	U
56-23-5	Carbon Tetrachloride	25	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	25	U
78-87-5	1,2-dichloropropane	25	U
10061-01-5	cis-1,3-dichloropropene	25	U
79-01-6	Trichloroethene	25	U
124-48-1	Dibromochloromethane	25	U
79-00-5	1,1,2-trichloroethane	25	U
71-43-2	Benzene	25	U
10061-02-6	trans-1,3-dichloropropene	25	U
75-25-2	Bromoform	25	U
108-10-1	4-methyl-2-pentanone	50	U
591-78-6	2-hexanone	50	U
127-18-4	Tetrachloroethene	25	U
79-34-5	1,1,2,2-tetrachloroethane	25	U
108-88-3	Toluene	1100	
108-90-7	Chlorobenzene	25	U
100-41-4	Ethylbenzene	25	U
100-42-5	Styrene	25	U
1330-20-7	Total Xylenes	25	U

Client: Kilbourn
Work Order: X2-05-068
20506812

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-17 9-10
Lab Sample No:
X2-05-068-10
Date Sampled: 5/7/92
Date Analyzed: 5/10/92

% Moisture: not dec. N/A

Dilution Factor: 5

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl Chloride	50	U
75-00-3	Chloroethane	50	U
75-09-2	Methylene Chloride	16	J
67-64-1	Acetone	50	U
75-15-0	Carbon Disulfide	15	J
75-35-4	1,1-Dichloroethene	25	U
75-34-3	1,1-Dichloroethane	25	U
540-59-0	1,2-dichloroethene (Total)	25	U
67-66-3	Chloroform	25	U
107-06-2	1,2-dichloroethane	25	U
78-93-3	2-butanone	50	U
71-55-6	1,1,1-trichloroethane	25	U
56-23-5	Carbon Tetrachloride	25	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	25	U
78-87-5	1,2-dichloropropane	25	U
10061-01-5	cis-1,3-dichloropropene	25	U
79-01-6	Trichloroethene	25	U
124-48-1	Dibromochloromethane	25	U
79-00-5	1,1,2-trichloroethane	25	U
71-43-2	Benzene	25	U
10061-02-6	trans-1,3-dichloropropene	25	U
75-25-2	Bromoform	25	U
108-10-1	4-methyl-2-pentanone	50	U
591-78-6	2-hexanone	50	U
127-18-4	Tetrachloroethene	25	U
79-34-5	1,1,2,2-tetrachloroethane	25	U
108-88-3	Toluene	3000	
108-90-7	Chlorobenzene	25	U
100-41-4	Ethylbenzene	97	
100-42-5	Styrene	25	U
1330-20-7	Total Xylenes	140	

Client: Kilbourn
Work Order: X2-05-068
20506813

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-18 0-6"
Lab Sample No:
X2-05-068-11
Date Sampled: 5/7/92
Date Analyzed: 5/10/92

% Moisture: not dec. N/A

Dilution Factor: 5

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl Chloride	50	U
75-00-3	Chloroethane	50	U
75-09-2	Methylene Chloride	12	J
67-64-1	Acetone	50	U
75-15-0	Carbon Disulfide	25	U
75-35-4	1,1-Dichloroethene	25	U
75-34-3	1,1-Dichloroethane	25	U
540-59-0	1,2-dichloroethene (Total)	25	U
67-66-3	Chloroform	25	U
107-06-2	1,2-dichloroethane	25	U
78-93-3	2-butanone	50	U
71-55-6	1,1,1-trichloroethane	25	U
56-23-5	Carbon Tetrachloride	25	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	25	U
78-87-5	1,2-dichloropropane	25	U
10061-01-5	cis-1,3-dichloropropene	25	U
79-01-6	Trichloroethene	25	U
124-48-1	Dibromochloromethane	25	U
79-00-5	1,1,2-trichloroethane	25	U
71-43-2	Benzene	25	U
10061-02-6	trans-1,3-dichloropropene	25	U
75-25-2	Bromoform	25	U
108-10-1	4-methyl-2-pentanone	50	U
591-78-6	2-hexanone	7	J
127-18-4	Tetrachloroethene	25	U
79-34-5	1,1,2,2-tetrachloroethane	25	U
108-88-3	Toluene	1700	
108-90-7	Chlorobenzene	25	U
100-41-4	Ethylbenzene	25	U
100-42-5	Styrene	25	U
1330-20-7	Total Xylenes	25	U

Client: Kilbourn
Work Order: X2-05-068
20506814

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-18 5-6
Lab Sample No:
X2-05-068-12
Date Sampled: 5/7/92
Date Analyzed: 5/16/92

% Moisture: not dec. N/A

Dilution Factor: 250

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	2500	U
74-83-9	Bromomethane	2500	U
75-01-4	Vinyl Chloride	2500	U
75-00-3	Chloroethane	2500	U
75-09-2	Methylene Chloride	330	J
67-64-1	Acetone	2500	U
75-15-0	Carbon Disulfide	1250	U
75-35-4	1,1-Dichloroethene	1250	U
75-34-3	1,1-Dichloroethane	1250	U
540-59-0	1,2-dichloroethene (Total)	1250	U
67-66-3	Chloroform	1250	U
107-06-2	1,2-dichloroethane	1250	U
78-93-3	2-butanone	2500	U
71-55-6	1,1,1-trichloroethane	1250	U
56-23-5	Carbon Tetrachloride	1250	U
108-05-4	Vinyl Acetate	2500	U
75-27-4	Bromodichloromethane	1250	U
78-87-5	1,2-dichloropropane	1250	U
10061-01-5	cis-1,3-dichloropropene	1250	U
79-01-6	Trichloroethene	1250	U
124-48-1	Dibromochloromethane	1250	U
79-00-5	1,1,2-trichloroethane	1250	U
71-43-2	Benzene	1250	U
10061-02-6	trans-1,3-dichloropropene	1250	U
75-25-2	Bromoform	1250	U
108-10-1	4-methyl-2-pentanone	2500	U
591-78-6	2-hexanone	2500	U
127-18-4	Tetrachloroethene	1250	U
79-34-5	1,1,2,2-tetrachloroethane	1250	U
108-88-3	Toluene	1250	U
108-90-7	Chlorobenzene	1250	U
100-41-4	Ethylbenzene	1250	U
100-42-5	Styrene	1250	U
1330-20-7	Total Xylenes	24000	

Client: Kilbourn
Work Order: X2-05-068
20506815

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-18 6-12
Lab Sample No:
X2-05-068-13
Date Sampled: 5/7/92
Date Analyzed: 5/15/92

% Moisture: not dec. N/A

Dilution Factor: 1250

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	12500	U
74-83-9	Bromomethane	12500	U
75-01-4	Vinyl Chloride	12500	U
75-00-3	Chloroethane	12500	U
75-09-2	Methylene Chloride	2800	J
67-64-1	Acetone	12500	U
75-15-0	Carbon Disulfide	6250	U
75-35-4	1,1-Dichloroethene	6250	U
75-34-3	1,1-Dichloroethane	6250	U
540-59-0	1,2-dichloroethene (Total)	6250	U
67-66-3	Chloroform	6250	U
107-06-2	1,2-dichloroethane	6250	U
78-93-3	2-butanone	12500	U
71-55-6	1,1,1-trichloroethane	6250	U
56-23-5	Carbon Tetrachloride	6250	U
108-05-4	Vinyl Acetate	12500	U
75-27-4	Bromodichloromethane	6250	U
78-87-5	1,2-dichloropropane	6250	U
10061-01-5	cis-1,3-dichloropropene	6250	U
79-01-6	Trichloroethene	6250	U
124-48-1	Dibromochloromethane	6250	U
79-00-5	1,1,2-trichloroethane	6250	U
71-43-2	Benzene	6250	U
10061-02-6	trans-1,3-dichloropropene	6250	U
75-25-2	Bromoform	6250	U
108-10-1	4-methyl-2-pentanone	12500	U
591-78-6	2-hexanone	12500	U
127-18-4	Tetrachloroethene	6250	U
79-34-5	1,1,2,2-tetrachloroethane	6250	U
108-88-3	Toluene	6250	U
108-90-7	Chlorobenzene	6250	U
100-41-4	Ethylbenzene	64000	
100-42-5	Styrene	6250	U
1330-20-7	Total Xylenes	320000	

Client: Kilbourn
Work Order: X2-05-068
20506816

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Water # TB-03
Lab Sample No:
X2-05-068-14
Date Sampled: 5/7/92
Date Analyzed: 5/13/92

% Moisture: not dec. N/A

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-dichloroethene (Total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-dichloroethane	5	U
78-93-3	2-butanone	10	U
71-55-6	1,1,1-trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-dichloropropane	5	U
10061-01-5	cis-1,3-dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-methyl-2-pentanone	10	U
591-78-6	2-hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

Client: Kilbourn
Work Order: X2-05-068
20506817

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-19 0-6"
Lab Sample No:
X2-05-068-15
Date Sampled: 5/7/92
Date Analyzed: 5/10/92

% Moisture: not dec. N/A

Dilution Factor: 1

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-dichloroethene (Total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-dichloroethane	5	U
78-93-3	2-butanone	10	U
71-55-6	1,1,1-trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-dichloropropane	5	U
10061-01-5	cis-1,3-dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-methyl-2-pentanone	10	U
591-78-6	2-hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-tetrachloroethane	5	U
108-88-3	Toluene	6	
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

Client: Kilbourn
Work Order: X2-05-068
20506818

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-19 4-6'
Lab Sample No:
X2-05-068-16
Date Sampled: 5/7/92
Date Analyzed: 5/10/92

% Moisture: not dec. N/A

Dilution Factor: 5

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl Chloride	50	U
75-00-3	Chloroethane	50	U
75-09-2	Methylene Chloride	18	J
67-64-1	Acetone	50	U
75-15-0	Carbon Disulfide	22	J
75-35-4	1,1-Dichloroethene	25	U
75-34-3	1,1-Dichloroethane	25	U
540-59-0	1,2-dichloroethene (Total)	25	U
67-66-3	Chloroform	25	U
107-06-2	1,2-dichloroethane	25	U
78-93-3	2-butanone	50	U
71-55-6	1,1,1-trichloroethane	25	U
56-23-5	Carbon Tetrachloride	25	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	25	U
78-87-5	1,2-dichloropropane	25	U
10061-01-5	cis-1,3-dichloropropene	25	U
79-01-6	Trichloroethene	25	U
124-48-1	Dibromochloromethane	25	U
79-00-5	1,1,2-trichloroethane	25	U
71-43-2	Benzene	25	U
10061-02-6	trans-1,3-dichloropropene	25	U
75-25-2	Bromoform	25	U
108-10-1	4-methyl-2-pentanone	50	U
591-78-6	2-hexanone	50	U
127-18-4	Tetrachloroethene	25	U
79-34-5	1,1,2,2-tetrachloroethane	25	U
108-88-3	Toluene	25	U
108-90-7	Chlorobenzene	25	U
100-41-4	Ethylbenzene	400	
100-42-5	Styrene	25	U
1330-20-7	Total Xylenes	1100	

Client: Kilbourn
Work Order: X2-05-068
20506819

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-19 6-8'
Lab Sample No:
X2-05-068-17
Date Sampled: 5/7/92
Date Analyzed: 5/15/92

% Moisture: not dec. N/A

Dilution Factor: 125

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	1250	U
74-83-9	Bromomethane	1250	U
75-01-4	Vinyl Chloride	1250	U
75-00-3	Chloroethane	1250	U
75-09-2	Methylene Chloride	130	
67-64-1	Acetone	1250	U
75-15-0	Carbon Disulfide	625	U
75-35-4	1,1-Dichloroethene	625	U
75-34-3	1,1-Dichloroethane	625	U
540-59-0	1,2-dichloroethene (Total)	625	U
67-66-3	Chloroform	625	U
107-06-2	1,2-dichloroethane	625	U
78-93-3	2-butanone	1250	U
71-55-6	1,1,1-trichloroethane	625	U
56-23-5	Carbon Tetrachloride	625	U
108-05-4	Vinyl Acetate	1250	U
75-27-4	Bromodichloromethane	625	U
78-87-5	1,2-dichloropropane	625	U
10061-01-5	cis-1,3-dichloropropene	625	U
79-01-6	Trichloroethene	625	U
124-48-1	Dibromochloromethane	625	U
79-00-5	1,1,2-trichloroethane	625	U
71-43-2	Benzene	625	U
10061-02-6	trans-1,3-dichloropropene	625	U
75-25-2	Bromoform	625	U
108-10-1	4-methyl-2-pentanone	1250	U
591-78-6	2-hexanone	1250	U
127-18-4	Tetrachloroethene	625	U
79-34-5	1,1,2,2-tetrachloroethane	625	U
108-88-3	Toluene	625	U
108-90-7	Chlorobenzene	625	U
100-41-4	Ethylbenzene	625	U
100-42-5	Styrene	625	U
1330-20-7	Total Xylenes	625	U

Client: Kilbourn
Work Order: X2-05-068
20506820

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-20 0-6"
Lab Sample No:
X2-05-068-18
Date Sampled: 5/7/92
Date Analyzed: 5/15/92

% Moisture: not dec. N/A

Dilution Factor: 25

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	250	U
74-83-9	Bromomethane	250	U
75-01-4	Vinyl Chloride	250	U
75-00-3	Chloroethane	250	U
75-09-2	Methylene Chloride	8	J
67-64-1	Acetone	250	U
75-15-0	Carbon Disulfide	6	J
75-35-4	1,1-Dichloroethene	125	U
75-34-3	1,1-Dichloroethane	125	U
540-59-0	1,2-dichloroethene (Total)	125	U
67-66-3	Chloroform	125	U
107-06-2	1,2-dichloroethane	125	U
78-93-3	2-butanone	250	U
71-55-6	1,1,1-trichloroethane	3	J
56-23-5	Carbon Tetrachloride	125	U
108-05-4	Vinyl Acetate	250	U
75-27-4	Bromodichloromethane	125	U
78-87-5	1,2-dichloropropane	125	U
10061-01-5	cis-1,3-dichloropropene	125	U
79-01-6	Trichloroethene	125	U
124-48-1	Dibromochloromethane	125	U
79-00-5	1,1,2-trichloroethane	125	U
71-43-2	Benzene	125	U
10061-02-6	trans-1,3-dichloropropene	125	U
75-25-2	Bromoform	125	U
108-10-1	4-methyl-2-pentanone	250	U
591-78-6	2-hexanone	250	U
127-18-4	Tetrachloroethene	125	U
79-34-5	1,1,2,2-tetrachloroethane	125	U
108-88-3	Toluene	125	U
108-90-7	Chlorobenzene	125	U
100-41-4	Ethylbenzene	125	U
100-42-5	Styrene	125	U
1330-20-7	Total Xylenes	125	U

Client: Kilbourn
Work Order: X2-05-068
20506825

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:

Lab Sample No:
Method Blank - VBLKP9

Date Analyzed: 5/15/92

% Moisture: not dec. N/A

Dilution Factor: 125

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	1250	U
74-83-9	Bromomethane	1250	U
75-01-4	Vinyl Chloride	1250	U
75-00-3	Chloroethane	1250	U
75-09-2	Methylene Chloride	130	J
67-64-1	Acetone	1250	U
75-15-0	Carbon Disulfide	625	U
75-35-4	1,1-Dichloroethene	625	U
75-34-3	1,1-Dichloroethane	625	U
540-59-0	1,2-dichloroethene (Total)	625	U
67-66-3	Chloroform	625	U
107-06-2	1,2-dichloroethane	625	U
78-93-3	2-butanone	1250	U
71-55-6	1,1,1-trichloroethane	625	U
56-23-5	Carbon Tetrachloride	625	U
108-05-4	Vinyl Acetate	1250	U
75-27-4	Bromodichloromethane	625	U
78-87-5	1,2-dichloropropane	625	U
10061-01-5	cis-1,3-dichloropropene	625	U
79-01-6	Trichloroethene	625	U
124-48-1	Dibromochloromethane	625	U
79-00-5	1,1,2-trichloroethane	625	U
71-43-2	Benzene	625	U
10061-02-6	trans-1,3-dichloropropene	625	U
75-25-2	Bromoform	625	U
108-10-1	4-methyl-2-pentanone	1250	U
591-78-6	2-hexanone	1250	U
127-18-4	Tetrachloroethene	625	U
79-34-5	1,1,2,2-tetrachloroethane	625	U
108-88-3	Toluene	625	U
108-90-7	Chlorobenzene	625	U
100-41-4	Ethylbenzene	625	U
100-42-5	Styrene	625	U
1330-20-7	Total Xylenes	625	U

Client: Kilbourn
Work Order: X2-05-068
20506826

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:

Lab Sample No:
Method Blank - VBLKQ1

Date Analyzed: 5/16/92

% Moisture: not dec. N/A

Dilution Factor: 125

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	1250	U
74-83-9	Bromomethane	1250	U
75-01-4	Vinyl Chloride	1250	U
75-00-3	Chloroethane	1250	U
75-09-2	Methylene Chloride	625	U
67-64-1	Acetone	1250	U
75-15-0	Carbon Disulfide	625	U
75-35-4	1,1-Dichloroethene	625	U
75-34-3	1,1-Dichloroethane	625	U
540-59-0	1,2-dichloroethene (Total)	625	U
67-66-3	Chloroform	625	U
107-06-2	1,2-dichloroethane	625	U
78-93-3	2-butanone	1250	U
71-55-6	1,1,1-trichloroethane	625	U
56-23-5	Carbon Tetrachloride	625	U
108-05-4	Vinyl Acetate	1250	U
75-27-4	Bromodichloromethane	625	U
78-87-5	1,2-dichloropropane	625	U
10061-01-5	cis-1,3-dichloropropene	625	U
79-01-6	Trichloroethene	625	U
124-48-1	Dibromochloromethane	625	U
79-00-5	1,1,2-trichloroethane	625	U
71-43-2	Benzene	625	U
10061-02-6	trans-1,3-dichloropropene	625	U
75-25-2	Bromoform	625	U
108-10-1	4-methyl-2-pentanone	1250	U
591-78-6	2-hexanone	1250	U
127-18-4	Tetrachloroethene	625	U
79-34-5	1,1,2,2-tetrachloroethane	625	U
108-88-3	Toluene	625	U
108-90-7	Chlorobenzene	625	U
100-41-4	Ethylbenzene	625	U
100-42-5	Styrene	625	U
1330-20-7	Total Xylenes	625	U

Client: Kilbourn
Work Order: X2-05-068
20506827

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:

Lab Sample No:
Method Blank - VBLKQ2

Date Analyzed: 5/19/92

% Moisture: not dec. N/A

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-dichloroethene (Total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-dichloroethane	5	U
78-93-3	2-butanone	10	U
71-55-6	1,1,1-trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-dichloropropane	5	U
10061-01-5	cis-1,3-dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-methyl-2-pentanone	10	U
591-78-6	2-hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

Client: Kilbourn
Work Order: X2-05-068
20506840

IT ANALYTICAL SERVICES
CINCINNATI, OH

Quality Assurance Data

Volatile
Surrogate Recovery, Percent
X2-05-068

Client Sample ID	Lab No.	d4-1,2-Dichloro-ethane	d8-Toluene	p-Bromo-fluoro-benzene
Soil # SB-10 0-6"	01	81	96	77
Soil # SB-10 4-6' DUP	02	88	102	90
Soil # SB-10 6-8'	03	89	107	88
Soil # SB-09 0-6"	04	91	110	89
Soil # SB-09 6-8'	05	92	108	88
Soil # SB-12 0-6"	06	93	110	87
Soil # SB-12 6-8'	07	94	113	88
Soil # SB-17 0-6"	08	94	119*	86
Soil # SB-17 3.5-4.5	09	93	109	88
Soil # SB-17 9-10	10	88	135*	101
Soil # SB-18 0-6"	11	95	120*	91
Soil # SB-18 5-6	12	97	100	92
Soil # SB-18 6-12	13	96	102	94
Water # TB-03	14	97	103	102
Soil # SB-19 0-6"	15	97	122*	85
Soil # SB-19 4-6'	16	86	334*	52*
Soil # SB-19 6-8'	17	96	102	99
Soil # SB-20 0-6"	18	96	101	97
Method Blank	VBLK08	92	103	99
Method Blank	VBLK09	91	101	98
Method Blank	VBLKQ2	91	104	99
Method Blank	VBLKP3	96	103	100

* Surrogate recoveries outside acceptance limits due to matrix effects.

Client: Kilbourn
Work Order: X2-05-068
20506841

IT ANALYTICAL SERVICES
CINCINNATI, OH

Analytical Results, S.U.
X2-05-068

Client Sample ID	Lab No.	pH
Soil # SB-10 0-6"	01 B	8.51
Soil # SB-10 4-6'	02 A	8.38
Soil # SB-10 4-6' Dup	02 B	8.51
Soil # SB-10 6-8'	03	8.52
Soil # SB-09 0-6"	04	8.67
Soil # SB-09 6-8'	05	8.14
Soil # SB-12 0-6"	06	8.42
Soil # SB-12 6-8'	07	8.23
Soil # SB-17 0-6"	08	8.02
Soil # SB-17 3.5-4.5	09	7.36
Soil # SB-17 9-10	10	8.13
Soil # SB-18 0-6"	11	8.08
Soil # SB-18 5-6	12	8.47
Soil # SB-18 6-12	13	8.22
Soil # SB-19 0-6"	15	8.08
Soil # SB-19 4-6'	16	8.02
Soil # SB-19 6-8'	17	8.17
Soil # SB-20 0-6"	18	8.10

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

IT Corporation
333 Pierce Road
Itasca, IL 60143

Date: May 26, 1992

Attn: Kristian Webb

Project Number 21691

This is the Certificate of Analysis for the following samples:

Client Project ID:	Kilbourn Ave.
Date Received:	May 9, 1992
Work Order:	X2-05-084
Number of Samples:	15
Sample Type:	Soil/Water

I. Introduction

Fifteen samples arrived at ITAS Cincinnati on May 9, 1992. The samples were collected on May 8, 1992. The client identification, corresponding lab numbers and dates of analysis are listed with the analytical results.

II. Analytical Results/Methodology

The analytical results for this report are presented by analytical test. The data will include sample identification information, the analytical results, and the appropriate detection limits.

The analyses requested and methods used are listed on the following page.

Reviewed and Approved by:

Tim Soward
Project Manager
205084

II. Analytical Results/Methodology (cont.)

* Volatile Organics by Gas Chromatography/Mass Spectrometry; EPA Method 8240

* Soil pH; EPA Method 9045

III. Quality Control

Immediately following the analytical data for the samples can be found the QA/QC information that pertains to these samples. The purpose of this information is to demonstrate that the data enclosed is scientifically valid and defensible. This QA/QC data is used to assess the laboratory's performance during the analysis of the samples it accompanies. All quantitations were performed within the calibrated range of the analytical instrument.

IV. Data Report Qualifiers

Following are descriptions of data report qualifiers which may have been used in this analytical report.

U The analyte was not detected in the sample or extract. The value reported with the "U" is the detection limit for that compound in that sample.

VALUE The result is a value equal to or greater than the detection limit for that compound.

J Indicates an estimated value. This flag is used when mass spectral data indicates the presence of the compound, but the result is less than the specified detection limit.

B This flag is used whenever the analyte is found in the blank as well as in the sample.

IV. Nonconformance

Samples X2-05-084-01A,-02A,-03A,-04A,-07A,-08A,-10A,-11A,-13A and -15A had detection limits reported higher than method limits due to high concentrations of late eluting hydrocarbons.

Client: Kilbourn
Work Order: X2-05-084
20508402

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # GSV-03-1
Lab Sample No:
X2-05-084-01
Date Analyzed:
May 19, 1992

% Moisture: not dec. N/A

Dilution Factor: 5

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl Chloride	50	U
75-00-3	Chloroethane	50	U
75-09-2	Methylene Chloride	10	J
67-64-1	Acetone	50	U
75-15-0	Carbon Disulfide	11	J
75-35-4	1,1-Dichloroethene	25	U
75-34-3	1,1-Dichloroethane	25	U
540-59-0	1,2-dichloroethene (Total)	25	U
67-66-3	Chloroform	25	U
107-06-2	1,2-dichloroethane	25	U
78-93-3	2-butanone	50	U
71-55-6	1,1,1-trichloroethane	25	U
56-23-5	Carbon Tetrachloride	25	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	25	U
78-87-5	1,2-dichloropropane	25	U
10061-01-5	cis-1,3-dichloropropene	25	U
79-01-6	Trichloroethene	25	U
124-48-1	Dibromochloromethane	25	U
79-00-5	1,1,2-trichloroethane	25	U
71-43-2	Benzene	25	U
10061-02-6	trans-1,3-dichloropropene	25	U
75-25-2	Bromoform	25	U
108-10-1	4-methyl-2-pentanone	50	U
591-78-6	2-hexanone	50	U
127-18-4	Tetrachloroethene	25	U
79-34-5	1,1,2,2-tetrachloroethane	25	U
108-88-3	Toluene	25	U
108-90-7	Chlorobenzene	25	U
100-41-4	Ethylbenzene	25	U
100-42-5	Styrene	25	U
1330-20-7	Total Xylenes	25	U

Client: Kilbourn
Work Order: X2-05-084
20508403

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # GSV-04-2
Lab Sample No:
X2-05-084-02
Date Analyzed:
May 19, 1992

% Moisture: not dec. N/A

Dilution Factor: 2.5

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	25	U
74-83-9	Bromomethane	25	U
75-01-4	Vinyl Chloride	25	U
75-00-3	Chloroethane	25	U
75-09-2	Methylene Chloride	5	J
67-64-1	Acetone	25	U
75-15-0	Carbon Disulfide	5	J
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-dichloroethene (Total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-dichloroethane	13	U
78-93-3	2-butanone	25	U
71-55-6	1,1,1-trichloroethane	22	
56-23-5	Carbon Tetrachloride	13	U
108-05-4	Vinyl Acetate	25	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-dichloropropane	13	U
10061-01-5	cis-1,3-dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02-6	trans-1,3-dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-methyl-2-pentanone	25	U
591-78-6	2-hexanone	25	U
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-tetrachloroethane	13	U
108-88-3	Toluene	7	J
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	63	
100-42-5	Styrene	13	U
1330-20-7	Total Xylenes	570	

Client: Kilbourn
Work Order: X2-05-084
20508404

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # GSV-06-3
Lab Sample No:
X2-05-084-03
Date Analyzed:
May 11, 1992

% Moisture: not dec. N/A

Dilution Factor: 5

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl Chloride	50	U
75-00-3	Chloroethane	50	U
75-09-2	Methylene Chloride	11	J
67-64-1	Acetone	18	J
75-15-0	Carbon Disulfide	13	J
75-35-4	1,1-Dichloroethene	25	U
75-34-3	1,1-Dichloroethane	25	U
540-59-0	1,2-dichloroethene (Total)	25	U
67-66-3	Chloroform	25	U
107-06-2	1,2-dichloroethane	25	U
78-93-3	2-butanone	50	U
71-55-6	1,1,1-trichloroethane	25	U
56-23-5	Carbon Tetrachloride	25	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	25	U
78-87-5	1,2-dichloropropane	25	U
10061-01-5	cis-1,3-dichloropropene	25	U
79-01-6	Trichloroethene	25	U
124-48-1	Dibromochloromethane	25	U
79-00-5	1,1,2-trichloroethane	25	U
71-43-2	Benzene	25	U
10061-02-6	trans-1,3-dichloropropene	25	U
75-25-2	Bromoform	25	U
108-10-1	4-methyl-2-pentanone	50	U
591-78-6	2-hexanone	50	U
127-18-4	Tetrachloroethene	25	U
79-34-5	1,1,2,2-tetrachloroethane	25	U
108-88-3	Toluene	25	U
108-90-7	Chlorobenzene	260	
100-41-4	Ethylbenzene	64	
100-42-5	Styrene	25	U
1330-20-7	Total Xylenes	270	

Client: Kilbourn
Work Order: X2-05-084
20508405

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # GSV-07-4
Lab Sample No:
X2-05-084-04
Date Analyzed:
May 11, 1992

% Moisture: not dec. N/A

Dilution Factor: 5

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl Chloride	50	U
75-00-3	Chloroethane	50	U
75-09-2	Methylene Chloride	8	J
67-64-1	Acetone	23	J
75-15-0	Carbon Disulfide	67	
75-35-4	1,1-Dichloroethene	25	U
75-34-3	1,1-Dichloroethane	25	U
540-59-0	1,2-dichloroethene (Total)	25	U
67-66-3	Chloroform	25	U
107-06-2	1,2-dichloroethane	25	U
78-93-3	2-butanone	50	U
71-55-6	1,1,1-trichloroethane	25	U
56-23-5	Carbon Tetrachloride	25	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	25	U
78-87-5	1,2-dichloropropane	25	U
10061-01-5	cis-1,3-dichloropropene	25	U
79-01-6	Trichloroethene	25	U
124-48-1	Dibromochloromethane	25	U
79-00-5	1,1,2-trichloroethane	25	U
71-43-2	Benzene	25	U
10061-02-6	trans-1,3-dichloropropene	25	U
75-25-2	Bromoform	25	U
108-10-1	4-methyl-2-pentanone	50	U
591-78-6	2-hexanone	50	U
127-18-4	Tetrachloroethene	25	U
79-34-5	1,1,2,2-tetrachloroethane	25	U
108-88-3	Toluene	25	U
108-90-7	Chlorobenzene	25	U
100-41-4	Ethylbenzene	25	U
100-42-5	Styrene	25	U
1330-20-7	Total Xylenes	690	

Client: Kilbourn
Work Order: X2-05-084
20508406

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # GSV-29-5
Lab Sample No:
X2-05-084-05
Date Analyzed:
May 11, 1992

% Moisture: not dec. N/A

Dilution Factor: 1

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	2	J
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-dichloroethene (Total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-dichloroethane	5	U
78-93-3	2-butanone	10	U
71-55-6	1,1,1-trichloroethane	4	J
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-dichloropropane	5	U
10061-01-5	cis-1,3-dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-methyl-2-pentanone	10	U
591-78-6	2-hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

Client: Kilbourn
Work Order: X2-05-084
20508407

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Rinsate # RB-01
Lab Sample No:
X2-05-084-06
Date Analyzed:
May 13, 1992

% Moisture: not dec. N/A

Dilution Factor: 1

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	1	J B
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	1	J
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-dichloroethene (Total)	5	U
67-66-3	Chloroform	11	
107-06-2	1,2-dichloroethane	5	U
78-93-3	2-butanone	10	U
71-55-6	1,1,1-trichloroethane	4	J
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-dichloropropane	5	U
10061-01-5	cis-1,3-dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-methyl-2-pentanone	10	U
591-78-6	2-hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

Client: Kilbourn
Work Order: X2-05-084
20508408

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-20 7-9'
Lab Sample No:
X2-05-084-07
Date Analyzed:
May 15, 1992

% Moisture: not dec. N/A

Dilution Factor: 250

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	2500	U
74-83-9	Bromomethane	2500	U
75-01-4	Vinyl Chloride	2500	U
75-00-3	Chloroethane	2500	U
75-09-2	Methylene Chloride	1250	U
67-64-1	Acetone	2500	U
75-15-0	Carbon Disulfide	1250	U
75-35-4	1,1-Dichloroethene	1250	U
75-34-3	1,1-Dichloroethane	1250	U
540-59-0	1,2-dichloroethene (Total)	1250	U
67-66-3	Chloroform	1250	U
107-06-2	1,2-dichloroethane	1250	U
78-93-3	2-butanone	2500	U
71-55-6	1,1,1-trichloroethane	1250	U
56-23-5	Carbon Tetrachloride	1250	U
108-05-4	Vinyl Acetate	2500	U
75-27-4	Bromodichloromethane	1250	U
78-87-5	1,2-dichloropropane	1250	U
10061-01-5	cis-1,3-dichloropropene	1250	U
79-01-6	Trichloroethene	1250	U
124-48-1	Dibromochloromethane	1250	U
79-00-5	1,1,2-trichloroethane	1250	U
71-43-2	Benzene	1250	U
10061-02-6	trans-1,3-dichloropropene	1250	U
75-25-2	Bromoform	1250	U
108-10-1	4-methyl-2-pentanone	2500	U
591-78-6	2-hexanone	2500	U
127-18-4	Tetrachloroethene	1250	U
79-34-5	1,1,2,2-tetrachloroethane	1250	U
108-88-3	Toluene	1400	
108-90-7	Chlorobenzene	1250	U
100-41-4	Ethylbenzene	1250	U
100-42-5	Styrene	1250	U
1330-20-7	Total Xylenes	1250	U

Client: Kilbourn
Work Order: X2-05-084
20508409

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-20 5-7'
Lab Sample No:
X2-05-084-08
Date Analyzed:
May 16, 1992

% Moisture: not dec. N/A

Dilution Factor: 250

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	2500	U
74-83-9	Bromomethane	2500	U
75-01-4	Vinyl Chloride	2500	U
75-00-3	Chloroethane	2500	U
75-09-2	Methylene Chloride	1250	U
67-64-1	Acetone	2500	U
75-15-0	Carbon Disulfide	1250	U
75-35-4	1,1-Dichloroethene	1250	U
75-34-3	1,1-Dichloroethane	1250	U
540-59-0	1,2-dichloroethene (Total)	1250	U
67-66-3	Chloroform	1250	U
107-06-2	1,2-dichloroethane	1250	U
78-93-3	2-butanone	2500	U
71-55-6	1,1,1-trichloroethane	1250	U
56-23-5	Carbon Tetrachloride	1250	U
108-05-4	Vinyl Acetate	2500	U
75-27-4	Bromodichloromethane	1250	U
78-87-5	1,2-dichloropropane	1250	U
10061-01-5	cis-1,3-dichloropropene	1250	U
79-01-6	Trichloroethene	1250	U
124-48-1	Dibromochloromethane	1250	U
79-00-5	1,1,2-trichloroethane	1250	U
71-43-2	Benzene	1250	U
10061-02-6	trans-1,3-dichloropropene	1250	U
75-25-2	Bromoform	1250	U
108-10-1	4-methyl-2-pentanone	2500	U
591-78-6	2-hexanone	2500	U
127-18-4	Tetrachloroethene	1250	U
79-34-5	1,1,2,2-tetrachloroethane	1250	U
108-88-3	Toluene	1490	
108-90-7	Chlorobenzene	1250	U
100-41-4	Ethylbenzene	1250	U
100-42-5	Styrene	1250	U
1330-20-7	Total Xylenes	1250	U

Client: Kilbourn
Work Order: X2-05-084
20508410

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-21 0-6"
Lab Sample No:
X2-05-084-09
Date Analyzed:
May 16, 1992

% Moisture: not dec. N/A

Dilution Factor: 125

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	1250	U
74-83-9	Bromomethane	1250	U
75-01-4	Vinyl Chloride	1250	U
75-00-3	Chloroethane	1250	U
75-09-2	Methylene Chloride	625	U
67-64-1	Acetone	1250	U
75-15-0	Carbon Disulfide	625	U
75-35-4	1,1-Dichloroethene	625	U
75-34-3	1,1-Dichloroethane	625	U
540-59-0	1,2-dichloroethene (Total)	625	U
67-66-3	Chloroform	625	U
107-06-2	1,2-dichloroethane	625	U
78-93-3	2-butanone	1250	U
71-55-6	1,1,1-trichloroethane	625	U
56-23-5	Carbon Tetrachloride	625	U
108-05-4	Vinyl Acetate	1250	U
75-27-4	Bromodichloromethane	625	U
78-87-5	1,2-dichloropropane	625	U
10061-01-5	cis-1,3-dichloropropene	625	U
79-01-6	Trichloroethene	625	U
124-48-1	Dibromochloromethane	625	U
79-00-5	1,1,2-trichloroethane	625	U
71-43-2	Benzene	625	U
10061-02-6	trans-1,3-dichloropropene	625	U
75-25-2	Bromoform	625	U
108-10-1	4-methyl-2-pentanone	1250	U
591-78-6	2-hexanone	1250	U
127-18-4	Tetrachloroethene	625	U
79-34-5	1,1,2,2-tetrachloroethane	625	U
108-88-3	Toluene	740	
108-90-7	Chlorobenzene	625	U
100-41-4	Ethylbenzene	625	U
100-42-5	Styrene	625	U
1330-20-7	Total Xylenes	625	U

Client: Kilbourn
Work Order: X2-05-084
20508411

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-21 3.5'W.T.
Lab Sample No:
X2-05-084-10
Date Analyzed:
May 16, 1992

% Moisture: not dec. N/A

Dilution Factor: 416

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	4160	U
74-83-9	Bromomethane	4160	U
75-01-4	Vinyl Chloride	4160	U
75-00-3	Chloroethane	4160	U
75-09-2	Methylene Chloride	350	J
67-64-1	Acetone	4160	U
75-15-0	Carbon Disulfide	2080	U
75-35-4	1,1-Dichloroethene	2080	U
75-34-3	1,1-Dichloroethane	2080	U
540-59-0	1,2-dichloroethene (Total)	2080	U
67-66-3	Chloroform	2080	U
107-06-2	1,2-dichloroethane	2080	U
78-93-3	2-butanone	4160	U
71-55-6	1,1,1-trichloroethane	2080	U
56-23-5	Carbon Tetrachloride	2080	U
108-05-4	Vinyl Acetate	4160	U
75-27-4	Bromodichloromethane	2080	U
78-87-5	1,2-dichloropropane	2080	U
10061-01-5	cis-1,3-dichloropropene	2080	U
79-01-6	Trichloroethene	2080	U
124-48-1	Dibromochloromethane	2080	U
79-00-5	1,1,2-trichloroethane	2080	U
71-43-2	Benzene	2080	U
10061-02-6	trans-1,3-dichloropropene	2080	U
75-25-2	Bromoform	2080	U
108-10-1	4-methyl-2-pentanone	4160	U
591-78-6	2-hexanone	4160	U
127-18-4	Tetrachloroethene	2080	U
79-34-5	1,1,2,2-tetrachloroethane	2080	U
108-88-3	Toluene	2200	
108-90-7	Chlorobenzene	2080	U
100-41-4	Ethylbenzene	88000	
100-42-5	Styrene	2080	U
1330-20-7	Total Xylenes	720000	

Client: Kilbourn
Work Order: X2-05-084
20508412

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-21 7-9'
Lab Sample No:
X2-05-084-11
Date Analyzed:
May 16, 1992

% Moisture: not dec. N/A

Dilution Factor: 250

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	2500	U
74-83-9	Bromomethane	2500	U
75-01-4	Vinyl Chloride	2500	U
75-00-3	Chloroethane	2500	U
75-09-2	Methylene Chloride	310	J
67-64-1	Acetone	2500	U
75-15-0	Carbon Disulfide	1250	U
75-35-4	1,1-Dichloroethene	1250	U
75-34-3	1,1-Dichloroethane	1250	U
540-59-0	1,2-dichloroethene (Total)	1250	U
67-66-3	Chloroform	1250	U
107-06-2	1,2-dichloroethane	1250	U
78-93-3	2-butanone	2500	U
71-55-6	1,1,1-trichloroethane	1250	U
56-23-5	Carbon Tetrachloride	1250	U
108-05-4	Vinyl Acetate	2500	U
75-27-4	Bromodichloromethane	1250	U
78-87-5	1,2-dichloropropane	1250	U
10061-01-5	cis-1,3-dichloropropene	1250	U
79-01-6	Trichloroethene	1250	U
124-48-1	Dibromochloromethane	1250	U
79-00-5	1,1,2-trichloroethane	1250	U
71-43-2	Benzene	1250	U
10061-02-6	trans-1,3-dichloropropene	1250	U
75-25-2	Bromoform	1250	U
108-10-1	4-methyl-2-pentanone	2500	U
591-78-6	2-hexanone	2500	U
127-18-4	Tetrachloroethene	1250	U
79-34-5	1,1,2,2-tetrachloroethane	1250	U
108-88-3	Toluene	990	J
108-90-7	Chlorobenzene	1250	U
100-41-4	Ethylbenzene	26000	
100-42-5	Styrene	1250	U
1330-20-7	Total Xylenes	110000	

Client: Kilbourn
Work Order: X2-05-084
20508413

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-23 0-6"
Lab Sample No:
X2-05-084-12
Date Analyzed:
May 16, 1992

% Moisture: not dec. N/A

Dilution Factor: 125

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	1250	U
74-83-9	Bromomethane	1250	U
75-01-4	Vinyl Chloride	1250	U
75-00-3	Chloroethane	1250	U
75-09-2	Methylene Chloride	150	J
67-64-1	Acetone	1250	U
75-15-0	Carbon Disulfide	625	U
75-35-4	1,1-Dichloroethene	625	U
75-34-3	1,1-Dichloroethane	625	U
540-59-0	1,2-dichloroethene (Total)	625	U
67-66-3	Chloroform	625	U
107-06-2	1,2-dichloroethane	625	U
78-93-3	2-butanone	1250	U
71-55-6	1,1,1-trichloroethane	625	U
56-23-5	Carbon Tetrachloride	625	U
108-05-4	Vinyl Acetate	1250	U
75-27-4	Bromodichloromethane	625	U
78-87-5	1,2-dichloropropane	625	U
10061-01-5	cis-1,3-dichloropropene	625	U
79-01-6	Trichloroethene	625	U
124-48-1	Dibromochloromethane	625	U
79-00-5	1,1,2-trichloroethane	625	U
71-43-2	Benzene	625	U
10061-02-6	trans-1,3-dichloropropene	625	U
75-25-2	Bromoform	625	U
108-10-1	4-methyl-2-pentanone	1250	U
591-78-6	2-hexanone	1250	U
127-18-4	Tetrachloroethene	625	U
79-34-5	1,1,2,2-tetrachloroethane	625	U
108-88-3	Toluene	625	U
108-90-7	Chlorobenzene	625	U
100-41-4	Ethylbenzene	625	U
100-42-5	Styrene	625	U
1330-20-7	Total Xylenes	320	J

Client: Kilbourn
Work Order: X2-05-084
20508414

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-23 0-6"DUP
Lab Sample No:
X2-05-084-13
Date Analyzed:
May 19, 1992

% Moisture: not dec. N/A

Dilution Factor: 5

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl Chloride	50	U
75-00-3	Chloroethane	50	U
75-09-2	Methylene Chloride	10	J
67-64-1	Acetone	50	U
75-15-0	Carbon Disulfide	6	J
75-35-4	1,1-Dichloroethene	25	U
75-34-3	1,1-Dichloroethane	25	U
540-59-0	1,2-dichloroethene (Total)	25	U
67-66-3	Chloroform	25	U
107-06-2	1,2-dichloroethane	25	U
78-93-3	2-butanone	50	U
71-55-6	1,1,1-trichloroethane	12	J
56-23-5	Carbon Tetrachloride	25	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	25	U
78-87-5	1,2-dichloropropane	25	U
10061-01-5	cis-1,3-dichloropropene	25	U
79-01-6	Trichloroethene	25	U
124-48-1	Dibromochloromethane	25	U
79-00-5	1,1,2-trichloroethane	25	U
71-43-2	Benzene	25	U
10061-02-6	trans-1,3-dichloropropene	25	U
75-25-2	Bromoform	25	U
108-10-1	4-methyl-2-pentanone	50	U
591-78-6	2-hexanone	50	U
127-18-4	Tetrachloroethene	25	U
79-34-5	1,1,2,2-tetrachloroethane	25	U
108-88-3	Toluene	25	U
108-90-7	Chlorobenzene	25	U
100-41-4	Ethylbenzene	25	U
100-42-5	Styrene	25	U
1330-20-7	Total Xylenes	25	U

Client: Kilbourn
Work Order: X2-05-084
20508415

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-23 3.5'W.T.
Lab Sample No:
X2-05-084-14
Date Analyzed:
May 19, 1992

% Moisture: not dec. N/A

Dilution Factor: 12

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	120	U
74-83-9	Bromomethane	120	U
75-01-4	Vinyl Chloride	120	U
75-00-3	Chloroethane	180	
75-09-2	Methylene Chloride	60	U
67-64-1	Acetone	120	U
75-15-0	Carbon Disulfide	60	U
75-35-4	1,1-Dichloroethene	60	U
75-34-3	1,1-Dichloroethane	60	U
540-59-0	1,2-dichloroethene (Total)	60	U
67-66-3	Chloroform	60	U
107-06-2	1,2-dichloroethane	60	U
78-93-3	2-butanone	120	U
71-55-6	1,1,1-trichloroethane	60	U
56-23-5	Carbon Tetrachloride	60	U
108-05-4	Vinyl Acetate	120	U
75-27-4	Bromodichloromethane	60	U
78-87-5	1,2-dichloropropane	60	U
10061-01-5	cis-1,3-dichloropropene	60	U
79-01-6	Trichloroethene	60	U
124-48-1	Dibromochloromethane	60	U
79-00-5	1,1,2-trichloroethane	60	U
71-43-2	Benzene	60	U
10061-02-6	trans-1,3-dichloropropene	60	U
75-25-2	Bromoform	60	U
108-10-1	4-methyl-2-pentanone	120	U
591-78-6	2-hexanone	120	U
127-18-4	Tetrachloroethene	60	U
79-34-5	1,1,2,2-tetrachloroethane	60	U
108-88-3	Toluene	1040	
108-90-7	Chlorobenzene	60	U
100-41-4	Ethylbenzene	60	U
100-42-5	Styrene	60	U
1330-20-7	Total Xylenes	160	

Client: Kilbourn
Work Order: X2-05-084
20508416

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-23 7-9'
Lab Sample No:
X2-05-084-15
Date Analyzed:
May 16, 1992

% Moisture: not dec. N/A

Dilution Factor: 250

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	2500	U
74-83-9	Bromomethane	2500	U
75-01-4	Vinyl Chloride	2500	U
75-00-3	Chloroethane	300	J
75-09-2	Methylene Chloride	1250	U
67-64-1	Acetone	2500	U
75-15-0	Carbon Disulfide	1250	U
75-35-4	1,1-Dichloroethene	1250	U
75-34-3	1,1-Dichloroethane	1250	U
540-59-0	1,2-dichloroethene (Total)	1250	U
67-66-3	Chloroform	1250	U
107-06-2	1,2-dichloroethane	1250	U
78-93-3	2-butanone	2500	U
71-55-6	1,1,1-trichloroethane	1250	U
56-23-5	Carbon Tetrachloride	1250	U
108-05-4	Vinyl Acetate	2500	U
75-27-4	Bromodichloromethane	1250	U
78-87-5	1,2-dichloropropane	1250	U
10061-01-5	cis-1,3-dichloropropene	1250	U
79-01-6	Trichloroethene	1250	U
124-48-1	Dibromochloromethane	1250	U
79-00-5	1,1,2-trichloroethane	1250	U
71-43-2	Benzene	1250	U
10061-02-6	trans-1,3-dichloropropene	1250	U
75-25-2	Bromoform	1250	U
108-10-1	4-methyl-2-pentanone	2500	U
591-78-6	2-hexanone	2500	U
127-18-4	Tetrachloroethene	1250	U
79-34-5	1,1,2,2-tetrachloroethane	1250	U
108-88-3	Toluene	300	J
108-90-7	Chlorobenzene	1250	U
100-41-4	Ethylbenzene	1250	U
100-42-5	Styrene	1250	U
1330-20-7	Total Xylenes	1250	U

Client: Kilbourn
Work Order: X2-05-084
20508417

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:

Lab Sample No:
Method Blank - VBLK010
Date Analyzed:
May 11, 1992

% Moisture: not dec. N/A

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-dichloroethene (Total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-dichloroethane	5	U
78-93-3	2-butanone	10	U
71-55-6	1,1,1-trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-dichloropropane	5	U
10061-01-5	cis-1,3-dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-methyl-2-pentanone	10	U
591-78-6	2-hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

Client: Kilbourn
Work Order: X2-05-084
20508418

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Water

Client Sample ID:

Lab Sample No:
Method Blank - VBLKP3
Date Analyzed:
May 13, 1992

% Moisture: not dec. N/A

Dilution Factor: 1

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	1	J
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-dichloroethene (Total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-dichloroethane	5	U
78-93-3	2-butanone	10	U
71-55-6	1,1,1-trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-dichloropropane	5	U
10061-01-5	cis-1,3-dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-methyl-2-pentanone	10	U
591-78-6	2-hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

Client: Kilbourn
Work Order: X2-05-084
20508419

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:

Lab Sample No:
Method Blank - VBLKP9
Date Analyzed:
May 13, 1992

% Moisture: not dec. N/A

Dilution Factor: 125

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	1250	U
74-83-9	Bromomethane	1250	U
75-01-4	Vinyl Chloride	1250	U
75-00-3	Chloroethane	1250	U
75-09-2	Methylene Chloride	130	J
67-64-1	Acetone	1	J
75-15-0	Carbon Disulfide	625	U
75-35-4	1,1-Dichloroethene	625	U
75-34-3	1,1-Dichloroethane	625	U
540-59-0	1,2-dichloroethene (Total)	625	U
67-66-3	Chloroform	625	U
107-06-2	1,2-dichloroethane	625	U
78-93-3	2-butanone	1250	U
71-55-6	1,1,1-trichloroethane	625	U
56-23-5	Carbon Tetrachloride	625	U
108-05-4	Vinyl Acetate	1250	U
75-27-4	Bromodichloromethane	625	U
78-87-5	1,2-dichloropropane	625	U
10061-01-5	cis-1,3-dichloropropene	625	U
79-01-6	Trichloroethene	625	U
124-48-1	Dibromochloromethane	625	U
79-00-5	1,1,2-trichloroethane	625	U
71-43-2	Benzene	625	U
10061-02-6	trans-1,3-dichloropropene	625	U
75-25-2	Bromoform	625	U
108-10-1	4-methyl-2-pentanone	1250	U
591-78-6	2-hexanone	1250	U
127-18-4	Tetrachloroethene	625	U
79-34-5	1,1,2,2-tetrachloroethane	625	U
108-88-3	Toluene	625	U
108-90-7	Chlorobenzene	625	U
100-41-4	Ethylbenzene	625	U
100-42-5	Styrene	625	U
1330-20-7	Total Xylenes	625	U

Client: Kilbourn
Work Order: X2-05-084
20508420

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:

Lab Sample No:
Method Blank - VBLKP10
Date Analyzed:
May 15, 1992

% Moisture: not dec. N/A

Dilution Factor: 125

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	1250	U
74-83-9	Bromomethane	1250	U
75-01-4	Vinyl Chloride	1250	U
75-00-3	Chloroethane	1250	U
75-09-2	Methylene Chloride	130	J
67-64-1	Acetone	1250	U
75-15-0	Carbon Disulfide	625	U
75-35-4	1,1-Dichloroethene	625	U
75-34-3	1,1-Dichloroethane	625	U
540-59-0	1,2-dichloroethene (Total)	625	U
67-66-3	Chloroform	625	U
107-06-2	1,2-dichloroethane	625	U
78-93-3	2-butanone	1250	U
71-55-6	1,1,1-trichloroethane	625	U
56-23-5	Carbon Tetrachloride	625	U
108-05-4	Vinyl Acetate	1250	U
75-27-4	Bromodichloromethane	625	U
78-87-5	1,2-dichloropropane	625	U
10061-01-5	cis-1,3-dichloropropene	625	U
79-01-6	Trichloroethene	625	U
124-48-1	Dibromochloromethane	625	U
79-00-5	1,1,2-trichloroethane	625	U
71-43-2	Benzene	625	U
10061-02-6	trans-1,3-dichloropropene	625	U
75-25-2	Bromoform	625	U
108-10-1	4-methyl-2-pentanone	1250	U
591-78-6	2-hexanone	1250	U
127-18-4	Tetrachloroethene	625	U
79-34-5	1,1,2,2-tetrachloroethane	625	U
108-88-3	Toluene	625	U
108-90-7	Chlorobenzene	625	U
100-41-4	Ethylbenzene	625	U
100-42-5	Styrene	625	U
1330-20-7	Total Xylenes	625	U

Client: Kilbourn
Work Order: X2-05-084
20508421

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:

Lab Sample No:
Method Blank - VBLKQ1
Date Analyzed:
May 16, 1992

% Moisture: not dec. N/A

Dilution Factor: 125

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	1250	U
74-83-9	Bromomethane	1250	U
75-01-4	Vinyl Chloride	1250	U
75-00-3	Chloroethane	1250	U
75-09-2	Methylene Chloride	625	U
67-64-1	Acetone	1250	U
75-15-0	Carbon Disulfide	625	U
75-35-4	1,1-Dichloroethene	625	U
75-34-3	1,1-Dichloroethane	625	U
540-59-0	1,2-dichloroethene (Total)	625	U
67-66-3	Chloroform	625	U
107-06-2	1,2-dichloroethane	625	U
78-93-3	2-butanone	1250	U
71-55-6	1,1,1-trichloroethane	625	U
56-23-5	Carbon Tetrachloride	625	U
108-05-4	Vinyl Acetate	1250	U
75-27-4	Bromodichloromethane	625	U
78-87-5	1,2-dichloropropane	625	U
10061-01-5	cis-1,3-dichloropropene	625	U
79-01-6	Trichloroethene	625	U
124-48-1	Dibromochloromethane	625	U
79-00-5	1,1,2-trichloroethane	625	U
71-43-2	Benzene	625	U
10061-02-6	trans-1,3-dichloropropene	625	U
75-25-2	Bromoform	625	U
108-10-1	4-methyl-2-pentanone	1250	U
591-78-6	2-hexanone	1250	U
127-18-4	Tetrachloroethene	625	U
79-34-5	1,1,2,2-tetrachloroethane	625	U
108-88-3	Toluene	625	U
108-90-7	Chlorobenzene	625	U
100-41-4	Ethylbenzene	625	U
100-42-5	Styrene	625	U
1330-20-7	Total Xylenes	625	U

Client: Kilbourn
Work Order: X2-05-084
20508422

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:

Lab Sample No:
Method Blank - VBLKQ2
Date Analyzed:
May 19, 1992

% Moisture: not dec. N/A

Dilution Factor: 125

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	1250	U
74-83-9	Bromomethane	1250	U
75-01-4	Vinyl Chloride	1250	U
75-00-3	Chloroethane	1250	U
75-09-2	Methylene Chloride	1	J
67-64-1	Acetone	1250	U
75-15-0	Carbon Disulfide	625	U
75-35-4	1,1-Dichloroethene	625	U
75-34-3	1,1-Dichloroethane	625	U
540-59-0	1,2-dichloroethene (Total)	625	U
67-66-3	Chloroform	625	U
107-06-2	1,2-dichloroethane	625	U
78-93-3	2-butanone	1250	U
71-55-6	1,1,1-trichloroethane	625	U
56-23-5	Carbon Tetrachloride	625	U
108-05-4	Vinyl Acetate	1250	U
75-27-4	Bromodichloromethane	625	U
78-87-5	1,2-dichloropropane	625	U
10061-01-5	cis-1,3-dichloropropene	625	U
79-01-6	Trichloroethene	625	U
124-48-1	Dibromochloromethane	625	U
79-00-5	1,1,2-trichloroethane	625	U
71-43-2	Benzene	625	U
10061-02-6	trans-1,3-dichloropropene	625	U
75-25-2	Bromoform	625	U
108-10-1	4-methyl-2-pentanone	1250	U
591-78-6	2-hexanone	1250	U
127-18-4	Tetrachloroethene	625	U
79-34-5	1,1,2,2-tetrachloroethane	625	U
108-88-3	Toluene	625	U
108-90-7	Chlorobenzene	625	U
100-41-4	Ethylbenzene	625	U
100-42-5	Styrene	625	U
1330-20-7	Total Xylenes	625	U

Client: Kilbourn
Work Order: X2-05-084
20508423

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:

Lab Sample No:
Method Blank - VBLKQ4
Date Analyzed:
May 21, 1992

% Moisture: not dec. N/A

Dilution Factor: 125

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	1250	U
74-83-9	Bromomethane	1250	U
75-01-4	Vinyl Chloride	1250	U
75-00-3	Chloroethane	1250	U
75-09-2	Methylene Chloride	1	J
67-64-1	Acetone	1250	U
75-15-0	Carbon Disulfide	2	J
75-35-4	1,1-Dichloroethene	625	U
75-34-3	1,1-Dichloroethane	625	U
540-59-0	1,2-dichloroethene (Total)	625	U
67-66-3	Chloroform	625	U
107-06-2	1,2-dichloroethane	625	U
78-93-3	2-butanone	1250	U
71-55-6	1,1,1-trichloroethane	625	U
56-23-5	Carbon Tetrachloride	625	U
108-05-4	Vinyl Acetate	1250	U
75-27-4	Bromodichloromethane	625	U
78-87-5	1,2-dichloropropane	625	U
10061-01-5	cis-1,3-dichloropropene	625	U
79-01-6	Trichloroethene	625	U
124-48-1	Dibromochloromethane	625	U
79-00-5	1,1,2-trichloroethane	625	U
71-43-2	Benzene	625	U
10061-02-6	trans-1,3-dichloropropene	625	U
75-25-2	Bromoform	625	U
108-10-1	4-methyl-2-pentanone	1250	U
591-78-6	2-hexanone	1250	U
127-18-4	Tetrachloroethene	625	U
79-34-5	1,1,2,2-tetrachloroethane	625	U
108-88-3	Toluene	625	U
108-90-7	Chlorobenzene	625	U
100-41-4	Ethylbenzene	625	U
100-42-5	Styrene	625	U
1330-20-7	Total Xylenes	625	U

Client: Kilbourn
Work Order: X2-05-084
20508424

IT ANALYTICAL SERVICES
CINCINNATI, OH

Quality Assurance Data

Volatile
Surrogate Recovery, Percent

Client Sample ID	Lab No.	d4-1,2-Dichloro-ethane	d8-Toluene	p-Bromo-fluoro-benzene
Soil # GSV-03-1	01	97	109	82
Soil # GSV-04-2	02	89	103	86
Soil # GSV-06-3	03	97	109	96
Soil # GSV-07-4	04	95	108	111
Soil # GSV-29-5	05	95	105	94
Rinsate # RB-01	06	101	99	99
Soil # SB-20 7-9'	07	98	110	105
Soil # SB-20 5-7'	08	102	106	100
Soil # SB-21 0-6"	09	101	109	91
Soil # SB-21 3.5'W.T.	10	98	114	110
Soil # SB-21 7-9'	11	100	113	98
Soil # SB-23 0-6"	12	102	104	88
Soil # SB-23 0-6"DUP	13	91	101	103
Soil # SB-23 3.5'W.T.	14	98	108	88
Soil # SB-23-7-9'	15	97	106	85
Method Blank	VBLK010	98	108	103
Method Blank	VBLKQ2	91	104	99
Method Blank	VBLKP9	99	100	102
Method Blank	VBLKP10	97	103	98
Method Blank	VBLKQ1	96	101	96
Method Blank	VBLKP3	96	103	100
Method Blank	VBLKQ4	88	101	104

Client: Kilbourn
Work Order: X2-05-084
20508425

IT ANALYTICAL SERVICES
CINCINNATI, OH

Analytical Results, S.U.

Client Sample ID	Lab No.	pH
Soil # GSV-03-1	01	8.03
Soil # GSV-04-2	02	8.18
Soil # GSV-06-3	03	8.03
Soil # GSV-07-4	04	6.94
Soil # GSV-29-5	05	9.40
Soil # SB-20 7-9'	07	10.09
Soil # SB-20 5-7'	08	8.32
Soil # SB-21 0-6"	09	7.74
Soil # SB-21 3.5'W.T.	10	7.92
Soil # SB-21 7-9'	11	7.24
Soil # SB-23 0-6"	12	8.34
Soil # SB-23 0-6"DUP	13	8.50
Soil # SB-23 3.5'W.T.	14	7.55
Soil # SB-23-7-9'	15	8.28

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

IT Corporation
333 Pierce Road
Itasca, IL 60143

Date: May 28, 1992

Attn: Kristian Webb

Project Number 21691

This is the Certificate of Analysis for the following samples:

Client Project ID:	Kilbourn Avenue
Date Received:	May 12, 1992
Work Order:	X2-05-102
Number of Samples:	13
Sample Type:	Soils

I. Introduction

Thirteen samples arrived at ITAS Cincinnati on May 12, 1992. The samples were collected on May 11, 1992 and were labeled as follows:

Soil # SB-26 0-6"	Soil # SB-25 0-6"	Soil # SB-24 6-8'
Soil # SB-26 0-6"DUP	Soil # SB-25 2-4'	Soil # SB-22 0-6"
Soil # SB-26 2-4'	Soil # SB-25 6-8'	Soil # SB-22 2-4'
Soil # SB-26 6-8'	Soil # SB-24 2-4'	Soil # SB-22 6-8'
		Soil # SB-24 0-6"

II. Analytical Results/Methodology

The analytical results for this report are presented by analytical test. The data will include sample identification information, the analytical results, and the appropriate detection limits.

The analyses requested and methods used are listed on the following page.

Reviewed and Approved by:

Tim Soward

Tim Soward
Project Manager
205102

II. Analytical Results/Methodology (cont.)

* Volatile Organics by Gas Chromatography/Mass Spectrometry; EPA Method 8240

* Soil pH; EPA Method 9040

III. Quality Control

Immediately following the analytical data for the samples can be found the QA/QC information that pertains to these samples. The purpose of this information is to demonstrate that the data enclosed is scientifically valid and defensible. This QA/QC data is used to assess the laboratory's performance during the analysis of the samples it accompanies. All quantitations were performed within the calibrated range of the analytical instrument.

IV. Data Report Qualifiers

Following are descriptions of data report qualifiers which may have been used in this analytical report.

U The analyte was not detected in the sample or extract. The value reported with the "U" is the detection limit for that compound in that sample.

VALUE The result is a value equal to or greater than the detection limit for that compound.

J Indicates an estimated value. This flag is used when mass spectral data indicates the presence of the compound, but the result is less than the specified detection limit.

B This flag is used whenever the analyte is found in the blank as well as in the sample.

IV. Nonconformance

Sample # X2-05-102-09A had QC data reported out of limits due to high concentrations of hydrocarbons causing d8 toluene to be high.

Sample # X2-05-102,-04A,-07A,-09A,-11A and -12A had increased detection limits due to contamination by late eluting hydrocarbons.

Client: Kilbourn
Work Order: X2-05-102
20510202

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-26 0-6"
Lab Sample No:
X2-05-102-01
Date Analyzed:
5/21/92

% Moisture: not dec. N/A

Dilution Factor: 1

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	3	J
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-dichloroethene (Total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-dichloroethane	5	U
78-93-3	2-butanone	5	J
71-55-6	1,1,1-trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-dichloropropane	5	U
10061-01-5	cis-1,3-dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-methyl-2-pentanone	10	U
591-78-6	2-hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

Client: Kilbourn
Work Order: X2-05-102
20510203

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-26 0-6"
Lab Sample No:
X2-05-102-02
Date Analyzed:
5/21/92

% Moisture: not dec. N/A

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	J B
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	3	J B
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-dichloroethene (Total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-dichloroethane	5	U
78-93-3	2-butanone	10	U
71-55-6	1,1,1-trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-dichloropropane	5	U
10061-01-5	cis-1,3-dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-methyl-2-pentanone	10	U
591-78-6	2-hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

Client: Kilbourn
Work Order: X2-05-102
20510204

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-26 2-4'
Lab Sample No:
X2-05-102-03
Date Analyzed:
5/21/92

% Moisture: not dec. N/A

Dilution Factor: 1

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	J B
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	3	J B
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-dichloroethene (Total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-dichloroethane	5	U
78-93-3	2-butanone	10	U
71-55-6	1,1,1-trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-dichloropropane	5	U
10061-01-5	cis-1,3-dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-methyl-2-pentanone	10	U
591-78-6	2-hexanone	2	J
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	1	J

Client: Kilbourn
Work Order: X2-05-102
20510205

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-26 6-8'
Lab Sample No:
X2-05-102-04
Date Analyzed:
5/16/92

% Moisture: not dec. N/A

Dilution Factor: 250

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	2500	U
74-83-9	Bromomethane	2500	U
75-01-4	Vinyl Chloride	2500	U
75-00-3	Chloroethane	2500	U
75-09-2	Methylene Chloride	480	J B
67-64-1	Acetone	2500	U
75-15-0	Carbon Disulfide	1250	U
75-35-4	1,1-Dichloroethene	1250	U
75-34-3	1,1-Dichloroethane	1250	U
540-59-0	1,2-dichloroethene (Total)	1250	U
67-66-3	Chloroform	1250	U
107-06-2	1,2-dichloroethane	1250	U
78-93-3	2-butanone	2500	U
71-55-6	1,1,1-trichloroethane	1250	U
56-23-5	Carbon Tetrachloride	1250	U
108-05-4	Vinyl Acetate	2500	U
75-27-4	Bromodichloromethane	1250	U
78-87-5	1,2-dichloropropane	1250	U
10061-01-5	cis-1,3-dichloropropene	1250	U
79-01-6	Trichloroethene	1250	U
124-48-1	Dibromochloromethane	1250	U
79-00-5	1,1,2-trichloroethane	1250	U
71-43-2	Benzene	1250	U
10061-02-6	trans-1,3-dichloropropene	1250	U
75-25-2	Bromoform	1250	U
108-10-1	4-methyl-2-pentanone	2500	U
591-78-6	2-hexanone	2500	U
127-18-4	Tetrachloroethene	1250	U
79-34-5	1,1,2,2-tetrachloroethane	1250	U
108-88-3	Toluene	670	J
108-90-7	Chlorobenzene	1250	U
100-41-4	Ethylbenzene	2200	
100-42-5	Styrene	1250	U
1330-20-7	Total Xylenes	67000	

Client: Kilbourn
Work Order: X2-05-102
20510206

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-25 0-6"
Lab Sample No:
X2-05-102-05
Date Analyzed:
5/21/92

% Moisture: not dec. N/A

Dilution Factor: 1

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	3	J B
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	3	J B
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-dichloroethene (Total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-dichloroethane	5	U
78-93-3	2-butanone	10	U
71-55-6	1,1,1-trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-dichloropropane	5	U
10061-01-5	cis-1,3-dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-methyl-2-pentanone	10	U
591-78-6	2-hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-tetrachloroethane	5	U
108-88-3	Toluene	2	J
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	1	J

Client: Kilbourn
Work Order: X2-05-102
20510207

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-25 2-4'
Lab Sample No:
X2-05-102-06
Date Analyzed:
5/22/92

% Moisture: not dec. N/A

Dilution Factor: 1

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	4	J B
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	2	J B
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-dichloroethene (Total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-dichloroethane	5	U
78-93-3	2-butanone	10	U
71-55-6	1,1,1-trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-dichloropropane	5	U
10061-01-5	cis-1,3-dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-methyl-2-pentanone	10	U
591-78-6	2-hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-tetrachloroethane	5	U
108-88-3	Toluene	10	
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	2	J

Client: Kilbourn
Work Order: X2-05-102
20510208

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-25 6-8'
Lab Sample No:
X2-05-102-07
Date Analyzed:
5/22/92

% Moisture: not dec. N/A

Dilution Factor: 5

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl Chloride	50	U
75-00-3	Chloroethane	50	U
75-09-2	Methylene Chloride	12	J B
67-64-1	Acetone	50	U
75-15-0	Carbon Disulfide	16	J B
75-35-4	1,1-Dichloroethene	25	U
75-34-3	1,1-Dichloroethane	25	U
540-59-0	1,2-dichloroethene (Total)	25	U
67-66-3	Chloroform	25	U
107-06-2	1,2-dichloroethane	25	U
78-93-3	2-butanone	50	U
71-55-6	1,1,1-trichloroethane	25	U
56-23-5	Carbon Tetrachloride	25	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	25	U
78-87-5	1,2-dichloropropane	25	U
10061-01-5	cis-1,3-dichloropropene	25	U
79-01-6	Trichloroethene	25	U
124-48-1	Dibromochloromethane	25	U
79-00-5	1,1,2-trichloroethane	25	U
71-43-2	Benzene	25	U
10061-02-6	trans-1,3-dichloropropene	25	U
75-25-2	Bromoform	25	U
108-10-1	4-methyl-2-pentanone	50	U
591-78-6	2-hexanone	50	U
127-18-4	Tetrachloroethene	25	U
79-34-5	1,1,2,2-tetrachloroethane	25	U
108-88-3	Toluene	120	
108-90-7	Chlorobenzene	25	U
100-41-4	Ethylbenzene	25	U
100-42-5	Styrene	25	U
1330-20-7	Total Xylenes	42	

Client: Kilbourn
Work Order: X2-05-102
20510209

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-24 2-4'
Lab Sample No:
X2-05-102-08
Date Analyzed:
5/17/92

% Moisture: not dec. N/A

Dilution Factor: 5

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl Chloride	50	U
75-00-3	Chloroethane	50	U
75-09-2	Methylene Chloride	25	U
67-64-1	Acetone	50	U
75-15-0	Carbon Disulfide	25	U
75-35-4	1,1-Dichloroethene	25	U
75-34-3	1,1-Dichloroethane	25	U
540-59-0	1,2-dichloroethene (Total)	25	U
67-66-3	Chloroform	25	U
107-06-2	1,2-dichloroethane	25	U
78-93-3	2-butanone	50	U
71-55-6	1,1,1-trichloroethane	25	U
56-23-5	Carbon Tetrachloride	25	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	25	U
78-87-5	1,2-dichloropropane	25	U
10061-01-5	cis-1,3-dichloropropene	25	U
79-01-6	Trichloroethene	25	U
124-48-1	Dibromochloromethane	25	U
79-00-5	1,1,2-trichloroethane	25	U
71-43-2	Benzene	25	U
10061-02-6	trans-1,3-dichloropropene	25	U
75-25-2	Bromoform	25	U
108-10-1	4-methyl-2-pentanone	50	U
591-78-6	2-hexanone	50	U
127-18-4	Tetrachloroethene	25	U
79-34-5	1,1,2,2-tetrachloroethane	25	U
108-88-3	Toluene	25	U
108-90-7	Chlorobenzene	25	U
100-41-4	Ethylbenzene	140	
100-42-5	Styrene	25	U
1330-20-7	Total Xylenes	25	U

Client: Kilbourn
Work Order: X2-05-102
20510210

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-24 6-8'
Lab Sample No:
X2-05-102-09
Date Analyzed:
5/16/92 & 5/22/92

% Moisture: not dec. N/A

Dilution Factor: 250

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	2500	U
74-83-9	Bromomethane	2500	U
75-01-4	Vinyl Chloride	2500	U
75-00-3	Chloroethane	2500	U
75-09-2	Methylene Chloride	340	J B
67-64-1	Acetone	2500	U
75-15-0	Carbon Disulfide	1250	U
75-35-4	1,1-Dichloroethene	1250	U
75-34-3	1,1-Dichloroethane	1250	U
540-59-0	1,2-dichloroethene (Total)	1250	U
67-66-3	Chloroform	1250	U
107-06-2	1,2-dichloroethane	1250	U
78-93-3	2-butanone	2500	U
71-55-6	1,1,1-trichloroethane	1250	U
56-23-5	Carbon Tetrachloride	1250	U
108-05-4	Vinyl Acetate	2500	U
75-27-4	Bromodichloromethane	1250	U
78-87-5	1,2-dichloropropane	1250	U
10061-01-5	cis-1,3-dichloropropene	1250	U
79-01-6	Trichloroethene	1250	U
124-48-1	Dibromochloromethane	1250	U
79-00-5	1,1,2-trichloroethane	1250	U
71-43-2	Benzene	1250	U
10061-02-6	trans-1,3-dichloropropene	1250	U
75-25-2	Bromoform	1250	U
108-10-1	4-methyl-2-pentanone	2500	U
591-78-6	2-hexanone	2500	U
127-18-4	Tetrachloroethene	1250	U
79-34-5	1,1,2,2-tetrachloroethane	1250	U
108-88-3	Toluene	3400	
108-90-7	Chlorobenzene	1250	U
100-41-4	Ethylbenzene	10000	
100-42-5	Styrene	1250	U
1330-20-7	Total Xylenes	87000	

Client: Kilbourn
Work Order: X2-05-102
20510211

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-22 0-6"
Lab Sample No:
X2-05-102-10
Date Analyzed:
5/16/92 & 5/22/92

% Moisture: not dec. N/A

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	30	B
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	2	J B
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-dichloroethene (Total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-dichloroethane	5	U
78-93-3	2-butanone	10	U
71-55-6	1,1,1-trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-dichloropropane	5	U
10061-01-5	cis-1,3-dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-methyl-2-pentanone	10	U
591-78-6	2-hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-tetrachloroethane	5	U
108-88-3	Toluene	2	J
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

Client: Kilbourn
Work Order: X2-05-102
20510212

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-22 2-4'
Lab Sample No:
X2-05-102-11
Date Analyzed:
5/16/92

% Moisture: not dec. N/A

Dilution Factor: 250

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	2500	U
74-83-9	Bromomethane	2500	U
75-01-4	Vinyl Chloride	2500	U
75-00-3	Chloroethane	2500	U
75-09-2	Methylene Chloride	270	J B
67-64-1	Acetone	2500	U
75-15-0	Carbon Disulfide	1250	U
75-35-4	1,1-Dichloroethene	1250	U
75-34-3	1,1-Dichloroethane	1250	U
540-59-0	1,2-dichloroethene (Total)	1250	U
67-66-3	Chloroform	1250	U
107-06-2	1,2-dichloroethane	1250	U
78-93-3	2-butanone	2500	U
71-55-6	1,1,1-trichloroethane	1250	U
56-23-5	Carbon Tetrachloride	1250	U
108-05-4	Vinyl Acetate	2500	U
75-27-4	Bromodichloromethane	1250	U
78-87-5	1,2-dichloropropane	1250	U
10061-01-5	cis-1,3-dichloropropene	1250	U
79-01-6	Trichloroethene	1250	U
124-48-1	Dibromochloromethane	1250	U
79-00-5	1,1,2-trichloroethane	1250	U
71-43-2	Benzene	1250	U
10061-02-6	trans-1,3-dichloropropene	1250	U
75-25-2	Bromoform	1250	U
108-10-1	4-methyl-2-pentanone	2500	U
591-78-6	2-hexanone	2500	U
127-18-4	Tetrachloroethene	1250	U
79-34-5	1,1,2,2-tetrachloroethane	1250	U
108-88-3	Toluene	400	J
108-90-7	Chlorobenzene	1250	U
100-41-4	Ethylbenzene	1250	U
100-42-5	Styrene	1250	U
1330-20-7	Total Xylenes	700	J

Client: Kilbourn
Work Order: X2-05-102
20510213

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-22 6-8'
Lab Sample No:
X2-05-102-12
Date Analyzed:
5/22/92

% Moisture: not dec. N/A

Dilution Factor: 125

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	1250	U
74-83-9	Bromomethane	1250	U
75-01-4	Vinyl Chloride	1250	U
75-00-3	Chloroethane	1250	U
75-09-2	Methylene Chloride	200	J B
67-64-1	Acetone	1250	U
75-15-0	Carbon Disulfide	625	U
75-35-4	1,1-Dichloroethene	625	U
75-34-3	1,1-Dichloroethane	625	U
540-59-0	1,2-dichloroethene (Total)	625	U
67-66-3	Chloroform	625	U
107-06-2	1,2-dichloroethane	625	U
78-93-3	2-butanone	1250	U
71-55-6	1,1,1-trichloroethane	625	U
56-23-5	Carbon Tetrachloride	625	U
108-05-4	Vinyl Acetate	1250	U
75-27-4	Bromodichloromethane	625	U
78-87-5	1,2-dichloropropane	625	U
10061-01-5	cis-1,3-dichloropropene	625	U
79-01-6	Trichloroethene	625	U
124-48-1	Dibromochloromethane	625	U
79-00-5	1,1,2-trichloroethane	625	U
71-43-2	Benzene	625	U
10061-02-6	trans-1,3-dichloropropene	625	U
75-25-2	Bromoform	625	U
108-10-1	4-methyl-2-pentanone	1250	U
591-78-6	2-hexanone	1250	U
127-18-4	Tetrachloroethene	625	U
79-34-5	1,1,2,2-tetrachloroethane	625	U
108-88-3	Toluene	1400	
108-90-7	Chlorobenzene	625	U
100-41-4	Ethylbenzene	300	J
100-42-5	Styrene	625	U
1330-20-7	Total Xylenes	1600	

Client: Kilbourn
Work Order: X2-05-102
20510214

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-24 0-6"
Lab Sample No:
X2-05-102-13
Date Analyzed:
5/22/92

% Moisture: not dec. N/A

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	J B
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	2	J B
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-dichloroethene (Total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-dichloroethane	5	U
78-93-3	2-butanone	10	U
71-55-6	1,1,1-trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-dichloropropane	5	U
10061-01-5	cis-1,3-dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-methyl-2-pentanone	10	U
591-78-6	2-hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-tetrachloroethane	5	U
108-88-3	Toluene	3	J
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

Client: Kilbourn
Work Order: X2-05-102
20510215

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:
Soil # SB-24 0-6"
Lab Sample No:
X2-05-102-13 RE
Date Analyzed:
5/22/92

% Moisture: not dec. N/A

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/Kg	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	3	J B
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	3	J B
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-dichloroethene (Total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-dichloroethane	5	U
78-93-3	2-butanone	10	U
71-55-6	1,1,1-trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-dichloropropane	5	U
10061-01-5	cis-1,3-dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-methyl-2-pentanone	10	U
591-78-6	2-hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-tetrachloroethane	5	U
108-88-3	Toluene	3	J
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	1	J
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	9	

Client: Kilbourn
Work Order: X2-05-102
20510216

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:

Lab Sample No:
Method Blank - VBLKP10
Date Analyzed:
5/15/92

% Moisture: not dec. N/A

Dilution Factor: 125

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	1250	U
74-83-9	Bromomethane	1250	U
75-01-4	Vinyl Chloride	1250	U
75-00-3	Chloroethane	1250	U
75-09-2	Methylene Chloride	140	J
67-64-1	Acetone	1250	U
75-15-0	Carbon Disulfide	625	U
75-35-4	1,1-Dichloroethene	625	U
75-34-3	1,1-Dichloroethane	625	U
540-59-0	1,2-dichloroethene (Total)	625	U
67-66-3	Chloroform	625	U
107-06-2	1,2-dichloroethane	625	U
78-93-3	2-butanone	1250	U
71-55-6	1,1,1-trichloroethane	625	U
56-23-5	Carbon Tetrachloride	625	U
108-05-4	Vinyl Acetate	1250	U
75-27-4	Bromodichloromethane	625	U
78-87-5	1,2-dichloropropane	625	U
10061-01-5	cis-1,3-dichloropropene	625	U
79-01-6	Trichloroethene	625	U
124-48-1	Dibromochloromethane	625	U
79-00-5	1,1,2-trichloroethane	625	U
71-43-2	Benzene	625	U
10061-02-6	trans-1,3-dichloropropene	625	U
75-25-2	Bromoform	625	U
108-10-1	4-methyl-2-pentanone	1250	U
591-78-6	2-hexanone	1250	U
127-18-4	Tetrachloroethene	625	U
79-34-5	1,1,2,2-tetrachloroethane	625	U
108-88-3	Toluene	625	U
108-90-7	Chlorobenzene	625	U
100-41-4	Ethylbenzene	625	U
100-42-5	Styrene	625	U
1330-20-7	Total Xylenes	625	U

Client: Kilbourn
Work Order: X2-05-102
20510217

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:

Lab Sample No:
Method Blank - VBLKQ1
Date Analyzed:
5/16/92

% Moisture: not dec. N/A

Dilution Factor: 1

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-dichloroethene (Total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-dichloroethane	5	U
78-93-3	2-butanone	10	U
71-55-6	1,1,1-trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-dichloropropane	5	U
10061-01-5	cis-1,3-dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-methyl-2-pentanone	10	U
591-78-6	2-hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

Client: Kilbourn
Work Order: X2-05-102
20510218

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:

Lab Sample No:
Method Blank - VBLKQ3
Date Analyzed:
5/21/92

% Moisture: not dec. N/A

Dilution Factor: 1

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	3	J
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-dichloroethene (Total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-dichloroethane	5	U
78-93-3	2-butanone	10	U
71-55-6	1,1,1-trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-dichloropropane	5	U
10061-01-5	cis-1,3-dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-methyl-2-pentanone	10	U
591-78-6	2-hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

Client: Kilbourn
Work Order: X2-05-102
20510219

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:

Lab Sample No:
Method Blank - VBLKQ4
Date Analyzed:
5/21/92

% Moisture: not dec. N/A

Dilution Factor: 125

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	1250	U
74-83-9	Bromomethane	1250	U
75-01-4	Vinyl Chloride	1250	U
75-00-3	Chloroethane	1250	U
75-09-2	Methylene Chloride	180	J
67-64-1	Acetone	1250	U
75-15-0	Carbon Disulfide	300	J
75-35-4	1,1-Dichloroethene	625	U
75-34-3	1,1-Dichloroethane	625	U
540-59-0	1,2-dichloroethene (Total)	625	U
67-66-3	Chloroform	625	U
107-06-2	1,2-dichloroethane	625	U
78-93-3	2-butanone	1250	U
71-55-6	1,1,1-trichloroethane	625	U
56-23-5	Carbon Tetrachloride	625	U
108-05-4	Vinyl Acetate	1250	U
75-27-4	Bromodichloromethane	625	U
78-87-5	1,2-dichloropropane	625	U
10061-01-5	cis-1,3-dichloropropene	625	U
79-01-6	Trichloroethene	625	U
124-48-1	Dibromochloromethane	625	U
79-00-5	1,1,2-trichloroethane	625	U
71-43-2	Benzene	625	U
10061-02-6	trans-1,3-dichloropropene	625	U
75-25-2	Bromoform	625	U
108-10-1	4-methyl-2-pentanone	1250	U
591-78-6	2-hexanone	1250	U
127-18-4	Tetrachloroethene	625	U
79-34-5	1,1,2,2-tetrachloroethane	625	U
108-88-3	Toluene	625	U
108-90-7	Chlorobenzene	625	U
100-41-4	Ethylbenzene	625	U
100-42-5	Styrene	625	U
1330-20-7	Total Xylenes	625	U

Client: Kilbourn
Work Order: X2-05-102
20510220

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:

Lab Sample No:
Method Blank - VBLKQ5
Date Analyzed:
5/22/92

% Moisture: not dec. N/A

Dilution Factor: 1

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	2	J
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-dichloroethene (Total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-dichloroethane	5	U
78-93-3	2-butanone	10	U
71-55-6	1,1,1-trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-dichloropropane	5	U
10061-01-5	cis-1,3-dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-methyl-2-pentanone	10	U
591-78-6	2-hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

Client: Kilbourn
Work Order: X2-05-102
20510221

IT ANALYTICAL SERVICES
CINCINNATI, OH

VOLATILE ORGANICS ANALYSIS DATA SHEET

Matrix: Soil

Client Sample ID:

Lab Sample No:
Method Blank - VBLKQ6
Date Analyzed:
5/22/92

% Moisture: not dec. N/A

Dilution Factor: 1

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/Kg	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-dichloroethene (Total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-dichloroethane	5	U
78-93-3	2-butanone	10	U
71-55-6	1,1,1-trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-dichloropropane	5	U
10061-01-5	cis-1,3-dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-methyl-2-pentanone	10	U
591-78-6	2-hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

Client: Kilbourn
Work Order: X2-05-102
20510223

IT ANALYTICAL SERVICES
CINCINNATI, OH

Quality Assurance Data

Volatile
Surrogate Recovery, Percent

Client Sample ID	Lab No.	d4-1,2-Dichloro-ethane	d8-Toluene	p-Bromo-fluoro-benzene
Soil # SB-26 0-6"	01	93	105	100
Soil # SB-26 0-6"DUP	02	92	98	104
Soil # SB-26 2-4'	03	95	103	104
Soil # SB-26 6-8'	04	99	103	86
Soil # SB-25 0-6"	05	84	96	101
Soil # SB-25 2-4'	06	94	109	100
Soil # SB-25 6-8'	07	91	102	95
Soil # SB-24 2-4'	08	99	102	92
Soil # SB-24 6-8'	09	89	99	97
Soil # SB-22 0-6"	10	97	109	100
Soil # SB-22 2-4'	11	98	103	86
Soil # SB-22 6-8'	12	83	101	96
Soil # SB-24 0-6"	13	93	117	92
	13 RE	96	116	102

Client: Kilbourn
Work Order: X2-05-102
20510225

IT ANALYTICAL SERVICES
CINCINNATI, OH

Analytical Results, S.U.

Client Sample ID	Lab No.	pH
Soil # SB-26 0-6"	01	12.06
Soil # SB-26 0-6"DUP	02	11.68
Soil # SB-26 2-4'	03	9.05
Soil # SB-26 6-8'	04	10.43
Soil # SB-25 0-6"	05	8.06
Soil # SB-25 2-4'	06	8.06
Soil # SB-25 6-8'	07	8.77
Soil # SB-24 2-4'	08	8.06
Soil # SB-24 6-8'	09	8.31
Soil # SB-22 0-6"	10	7.88
Soil # SB-22 2-4'	11	7.75
Soil # SB-22 6-8'	12	8.05
Soil # SB-24 0-6"	13	8.44

International Technology Corporation

RECEIVED JUL 13 1992

05-June-92

Tim Soward
ITAS Cincinnati
11499 Chester Rd.
Cincinnati, OH 45246

RE: PCB Report
Client Project No: C2-05-052
SAL Project No: 484667

Dear Tim:

Enclosed please find one (1) copy of our final PCB report and a copy of the invoice for eight (8) concrete and sixteen (16) wipe samples received 22-May-92.

ITAS Special Analysis Laboratory (SAL) appreciates your business and looks forward to working with you in the future. Please call if you have any questions about our report or services.

Sincerely,

Duane K. Root

Duane Root
Technical Director
Special Analysis Laboratory

DR115/wkh

Technology Development Laboratory
304 Directors Drive ▪ Knoxville, Tennessee 37923 ▪ (615) 690-3211 ▪ FAX (615) 694-9573
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INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

Reference Document: 352931

Project Name/No. [1] Kilbourn Ave 312299

Sample Team Members [2] K. Webb, P. Day, D. Purcell, M. Dorm

Profit Center No. [3] 3532

Project Manager [4] K. Webb

Purchase Order No. [6]

Required Report Date [11]

Samples Shipment Date [7] 5-5-92

Lab Destination [8] ITAS Cincinati

Lab Contact [9] Tim Soward

Project Contact/Phone [12] Pressley Campbell 208-250-7788

Carrier/Waybill No. [13] 3811390822

Bill to: [5]

Report to: [10] K. Webb
IT Corp.
333 Pierce Rd. Suite 200
Itasca, Il. 60143

ONE CONTAINER PER LINE

Sample Number [14]	Sample Description/Type [15]	Date/Time Collected [16]	Container Type [17]	Sample Volume [18]	Pre-servative [19]	Requested Testing Program [20]	Condition on Receipt [21]	Disposal Record No. [22]
14B-WP1	Bldg 14 SW corner	05-05-92 1700	4oz	10cm²	None	PCB Wipe 8080	Samples rec'd in good condition	
14B-WP2	Bldg 14 along West wall	05-05-92 1705	↓	↓	↓	↓	at 70	
14B-WP3	Bldg 14 NW corner	05-05-92 1712	↓	↓	↓	↓	IT sampling [illegible] at	
14B-WP4	Bldg 14 NE corner	05-05-92 1718	↓	↓	↓	↓	(oC real) intact on	
14B-WP5	Bldg 14 Near S. transformer	05-05-92 1724	↓	↓	↓	↓	[illegible] 5/6/92	
14B-WP6	Bldg 14 outside doorway	05-05-92 1727	↓	↓	↓	↓	[illegible]	
14B-WP7	Bldg 14 Near center transformer	05-05-92 1735	↓	↓	↓	↓	on paperwork, see Varance	
14B-WP8	Bldg 14 On S. wall	05-05-92 1740	↓	↓	↓	↓	Memo [illegible]	

FOR LAB USE ONLY

Special Instructions: [23]

Possible Hazard Identification: [24]
Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

Sample Disposal: [25]
Return to Client ☐ Disposal by Lab ☒ Archive (mos.)

Turnaround Time Required: [26]
Normal ☒ Rush ☐

QC Level: [27]
I. ☒ II. ☐ III. ☐ Project Specific (specify):

1. Relinquished by [28] (Signature/Affiliation) Kristian Webb	Date: 5-5-92 Time: 1700	1. Received by [28] (Signature/Affiliation) Julie Moore	Date: 5/6/92 Time: 0835
2. Relinquished by (Signature/Affiliation)	Date: Time:	2. Received by (Signature/Affiliation)	Date: Time:
3. Relinquished by (Signature/Affiliation)	Date: Time:	3. Received by (Signature/Affiliation)	Date: Time:

Comments: [29]

MCA 3/15/9

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD (cont.)*

Reference Document No.[30] 352991
Page 2 of 2

Project Name ~~VALSPAR~~ KW Kilbourn Ave

Project No. 312299

Samples Shipment Date 05-05-92

ONE CONTAINER PER LINE

Sample Number [14]	Sample Description/Type [15]	Date/Time Collected [16]	Container Type [17]	Sample Volume [18]	Preservative [19]	Requested Testing Program [20]	Condition on Receipt [21]	Disposal Record No. [22]
SB-01	0-6"	05-05-92 1150	4oz	4oz	4°C NONE	VOC 8240	Samples rec'd in good	
SB-01	0-6"	05-05-92 1150	4oz	4oz	4°C NONE	pH 9040	condition	FOR LAB USE ONLY
SB-02	0-6"	05-05-92 1320	4oz	4oz	4°C NONE	VOC 8240	Variance [illegible]	
SB-02	0-6"	05-05-92 1320	4oz	4oz	4°C NONE	pH 9040	Tape [illegible]	
SB-03	0-6"	05-05-92 1515	4oz	4oz	4°C NONE	VOC 8240	[illegible]	FOR LAB USE ONLY
SB-03	0-6"	05-05-92 1515	4oz	4oz	4°C NONE	pH 9040	Additional Samples	
SB-01	6-8'	05-05-92 1315	4oz	4oz	4°C NONE	VOC/pH 8240/9040	rec'd, [illegible]	FOR LAB USE ONLY
SB-02	6-8'	05-05-92 1430	4oz	4oz	4°C NONE	VOC/pH 8240/9040	[illegible] Variance	
SB-03	6-8'	05-05-92 1605	4oz	4oz	4°C NONE	VOC/pH 8240/9040	Memo 5/6/92	
5E Sump-01	Bldg 5E Sump Sed	05-04-92 1450	4oz	4oz	4°C None	VOC 8240	[illegible]	
5E Sump-01	Bldg 5E Sump Sed	05-04-92 1450	4oz	4oz	4°C None	pH 9040		
5E Sump-01D	Bldg 5E Sump Sed Dup	05-04-92 1500	4oz	4oz	4°C None	VOC 8240		FOR
5E Sump-01D	↓	↓	↓	↓	↓	pH 9040		USE
8LD-01	Bldg 8 Lead Dust	05-04-92 1555	8oz	8oz	↓	TCLP Lead 1311		
14B-C01-B	Bldg 14 Bottom 1/2 of Core #1	05-05-92 1325	8oz	8oz	↓	PCB 8080	* - [illegible] test	
14B-C01-T	Bldg 14 Top 1/2 of Core #1	05-05-92 1335	8oz	8oz	↓	PCB 8080	* 8220' - See Variance Memo	
14B-C02-T	Bldg 14 Top 1/2 of Core #2	05-05-92 1355	↓	↓	↓	↓	*	
14B-C02-B	Bldg 14 Bottom 1/2 of Core #2	05-05-92 1400	↓	↓	↓	↓	*	

White: To accompany samples Yellow: Field copy

*See back of form for special instructions.

MCA 3/15/91

#40466

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD (cont.)*

Reference Document No.[30] 334046
Page 3 of 3

Project Name

Project No.

Samples Shipment Date

ONE CONTAINER PER LINE

Sample Number [14]	Sample Description/Type [15]	Date/Time Collected [16]	Container Type [17]	Sample Volume [18]	Pre-servative [19]	Requested Testing Program [20]	Condition on Receipt [21]	Disposal Record No. [22]
180512PCB1	PCB xtract	see orig COC	See attached			PCB	OK. MLW	
-2							5-22-92	LAB
-3								ONLY
-4								
LCS								

White: To accompany samples

Yellow: Field copy

*See back of form for special instructions.

IT/Cerritos Extraction Notes

PCB Solids

:thod 8080/3550

Prep. Notes p. ____ of ____
Revised 7/91 BS

IT/Cerritos Job Number: C205052

Customer: ITCIN

QC with Job Number: 205052

Contract #:

Case #:

SDG #:

Surrogate and Spiking Solutions

Matrix	Solution ID	Surr/Spk	Vol Spk	Spk By
LS	#812 Pest	Surr	2.0 ml	AC
LS	#807 PCB 1260	Spk	50 µl	AC

Prep. Steps/Analysts

Prep. Step	Done By	Date/Time Completed
Weigh Sample	AZ/RV	5-12-92
Extraction	↓	↓
Concentration	↓	↓
Transfer	↓	↓
GPC Inject		
GPC Conc		
Florisil Elut	EC	5-13-92
Florisil Conc	AZ ↓	↓
Florisil Trans	↓	↓

Prep Reagent Lot #

$MeCl_2$ ~~BE54~~ BC384 Na_2SO_4 201

Acetone BA190 Hexane BB182

Florisil AC157

Sample Number	Analysis Level	Initial Spl Wt.	Inter. Ext Vol.	GPC ?mL->?mL	Florisil ?mL->?mL	Comments
9A-3F-COL-B	LS	30.00 g->	10.0 mL	mL	40-74.0 mL	
A-3F-COL-T	↓	30.03 g->	mL	mL	mL	
11A-3F-CO2-T		30.01 g->	mL	mL	mL	
12A-3F-CO2-B		30.01 g->	mL	mL	mL	
21A-14B-COL-B		30.03 g->	mL	mL	mL	
22A-14B-COL-T		30.01 g->	mL	mL	mL	
23A-14B-CO2-T		30.06 g->	mL	mL	mL	
24A-14B CO2-B		30.04 g->	mL	mL	mL	
1A-3F CO2-T MS		30.00 g->	mL	mL	mL	
11A- ↓ MSD	↓	30.00 g->	mL	mL	mL	
LCS	Blank	Blank g->	mL	mL	mL	
MB05 12 PCB-23	↓	↓ g->	mL	mL	mL	
MB05 12 PCB-24		g->	↓ mL	mL	↓ mL	
		g->	mL	mL	mL	
		g->	mL	mL	mL	
		g->	mL	mL	mL	
		g->	mL	mL	mL	
		g->	mL	mL	mL	
		g->	mL	mL	mL	
		g->	mL	mL	mL	

Notes:

Extraction Notes Completed & Verified by: (B)

Date: 5/15/92

IT/Cerritos Extraction Notes

Pesticide ~~Waters~~
wipes

Prep. Notes p.____ of ____
Revised 7/91 BS

.thod 8080/3520 (L/L) ☐
8080/3510 (Shakeout) ☑

T/Cerritos Job Number: C2 05052
Customer: IT CIN
QC with Job Number: 205052

Contract #:
Case #:
SDG #:

Surrogate and Spiking Solutions

Matrix	Solution ID	Surr/Spk	Vol Spk	Spk By
wipe	Pest #812	Surr	2.0 ml	EC
	PCB #1260	Spk	50 ml	↓
	#807 (B)	5/21/92		

Prep. Steps/Analysts

Prep. Step	Done By	Date/Time Completed
Meas. Sample	EC	5-12-92
Check pH	↓	↓
Extraction	↓	↓
Concentration	↓	↓
Transfer	↓	↓
Blow Down	EC/BS/AZ	5/13/92
Florisil Elut	↓	↓
Florisil Conc	↓	↓
Florisil Tran	↓	↓

Prep Reagent Lot #

$MeCl_2$ ____ Na_2SO_4 ____
Acetone 31262 Hexane BB82
Florisil AC 187

Sample Number	Analysis Level	Initial Spl Vol.	Interm. Vol.	Florisil Vol.	Comments
1A 3F PAP-1	wipe	wipe mL->	10.0 mL	4.0→4.0 mL	
2A 3F WP1	↓	mL->	↓ mL	↓ mL	All Samples were foam
3F WP2 (3A)		mL->	mL	mL	01A was a thick
4A 3F WP3		mL->	mL	mL	oily liquid after
5A 3F WP4		mL->	mL	mL	blowing down to
6A 3F WP5		mL->	mL	mL	less than 2.0 ml
7A 3F-WP6		mL->	mL	mL	
8A 3F WP7		mL->	mL	mL	
~~9A~~ 13A 14B-WP1		mL->	mL	mL	
~~10A~~ 14A 2		mL->	mL	mL	
15A 3		mL->	mL	mL	
16A 4		mL->	mL	mL	
17A 5		mL->	mL	mL	
18A 6		mL->	mL	mL	
19A 7		mL->	mL	mL	
20A 8	↓	mL->	mL	mL	
Blank MS	Blank	(B) wipe mL->	mL	mL	
Blank MSD	↓	mL->	mL	mL	
MB0512PCB-1		mL->	mL	mL	
↓ 2	↓	mL->	↓ mL	↓ mL	

Comments:

Extraction Notes Completed & Verified by: (B) Date: 5/15/92

APPENDIX A

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

Tim Soward
ITAS Cincinnati
11499 Chester Rd.
Cincinnati, OH 45246

SAL PROJECT NUMBER:484667

This is the Certificate of Analysis for the following samples:

Client Project ID:	C2-05-052 **(KILBOURNE FACTORY)**
Date Received by Lab:	22-May-92
Number of Samples:	Eight (8) Concrete and Sixteen (16) Wipes
Sample Type:	Concrete and Wipes

I. Introduction/Case Narrative

Eight (8) concrete and sixteen (16) wipe samples were received and extracted at ITAS-Cerritos for analysis of polychlorinated biphenyls (PCBs). The extracts from these samples were subsequently received at ITAS-SAL for analysis of PCBs because of the level of analytes found present in the samples. Please see cross reference list (Appendix A) and Chain-of-Custody (Appendix D). These samples were analyzed for polychlorinated biphenyls (PCBs) as an identified Aroclor product by GC/ECD.

The samples were labeled with the following:

3F-CO1-B	14B-CO2-T	3F-WP4	14B-WP3
3F-CO1-T	14B-CO2-B	3F-WP5	14B-WP4
3F-CO2-T	3F-PAP-1	3F-WP6	14B-WP5
3F-CO2-B	3F-WP1	3F-WP7	14B-WP6
14B-CO1-B	3F-WP2	14B-WP1	14B-WP7
14B-CO1-T	3F-WP3	14B-WP2	14B-WP8

Reviewed and Approved:

Bruce F. Wagner

Bruce F. Wagner
Analytical Manager
DR115/wkh

Tim Soward
ITAS CINCINNATI
Date: 05-June-92
Client Project ID: C2-05-052 SAL Project No.: 484667

IT ANALYTICAL SERVICES
304 DIRECTORS DRIVE
KNOXVILLE, TN
(615) 690-3211

II. Analytical Results/Methodology

SAMPLE PREPARATION

Each wipe sample and a 30 gram aliquot of each concrete sample was extracted at ITAS-Cerritos laboratory. The extracts were concentrated and solvent exchanged to hexane and the extract volume was adjusted to 10 mLs. The extracts were subsequently received at ITAS-SAL for instrumental analysis.

GC ANALYSIS

The sample extracts were analyzed by a Hewlet Packard Model 5890 Gas Chromatograph equipped with an election capture detector. A Perkin Elmer/Nelson Turbochrom 3 data system was used for acquisition and quantification.

The instrument was calibrated initially using five levels of Aroclor 1260 from 0.1 to 2.5 ug/ml. Continuing calibrations were subsequently performed at the beginning and end of sample analyses within a twelve hour shift. Calibration was verified by demonstrating instrument response to a 1.0 ug/ml Aroclor 1260 standard within 15% of that predicted from the initial calibration.

Aroclor 1260 was the only Aroclor identified as present in the samples and quantification was performed only for that Aroclor by external standard calibration as described above. Samples were diluted with hexane until a response was obtained which was greater than 2.5 times the background noise, but not saturating the instrument detector. Estimates were provided for those sample responses which were outside of the instrument calibration range but within the range described above. The results for concrete samples are given in Appendix B and are reported in ug/g Aroclor 1260 (ppm). The results for wipe samples are given in Appendix C and are reported in total ug Aroclor 1260.

III. Quality Control

A pair of MS/MSD samples, each spiked with 10 ug of Aroclor 1260, were analyzed on one concrete sample, but the sample content far exceeded the amount of analyte spiked onto the matrix. Results are included in Appendix B. A laboratory control sample and a blank spike pair were also analyzed with accuracy results within ±30% and precision (RPD) less than 10%.

Tim Soward
ITAS CINCINNATI
Date: 05-June-92
Client Project ID: C2-05-052 SAL Project No.: 484667

IT ANALYTICAL SERVICES
304 DIRECTORS DRIVE
KNOXVILLE, TN
(615) 690-3211

Appendix A

CROSS REFERENCE LIST

SAL SAMPLE NO.	CLIENT SAMPLE NO.	MATRIX
GG5254	3F-CO1-B	Concrete
GG5255	3F-CO1-T	Concrete
GG5256	3F-CO2-T	Concrete
GG5257	3F-CO2-T MS	Concrete
GG5258	3F-CO2-T MSD	Concrete
GG5259	3F-CO2-B	Concrete
GG5268	14B-CO1-B	Concrete
GG5269	14B-CO1-T	Concrete
GG5270	14B-CO2-T	Concrete
GG5271	14B-CO2-B	Concrete
GG5246	3F-PAP-1	Wipe
GG5247	3F-WP1	Wipe
GG5248	3F-WP2	Wipe
GG5249	3F-WP3	Wipe
GG5250	3F-WP4	Wipe
GG5251	3F-WP5	Wipe
GG5252	3F-WP6	Wipe
GG5253	3F-WP7	Wipe
GG5260	14B-WP1	Wipe
GG5261	14B-WP2	Wipe
GG5262	14B-WP3	Wipe
GG5263	14B-WP4	Wipe
GG5264	14B-WP5	Wipe
GG5265	14B-WP6	Wipe
GG5266	14B-WP7	Wipe
GG5267	14B-WP8	Wipe

APPENDIX B

Tim Soward
ITAS CINCINNATI
Date: 05-June-92
Client Project ID: C2-05-052 SAL Project No.: 484667

IT ANALYTICAL SERVICES
304 DIRECTORS DRIVE
KNOXVILLE, TN
(615) 690-3211

Appendix B

CONCRETE SAMPLES RESULTS

Units: µg/g

SAL Sample No.	Client Sample Number	Sample Weight (g)	Aroclor 1260 (µg/g)
GG5254	3F-CO1-B	30.00	14.
GG5255	3F-CO1-T	30.03	24000
GG5256	3F-CO2-T	30.01	43000
GG5257	3F-CO2-T MS[a]	30.00	54000
GG5258	3F-CO2-T MSD[a]	30.00	200000
GG5259	3F-CO2-B	30.01	1100
GG5268	14B-CO1-B	30.03	99.
GG5269	14B-CO1-T	30.01	3600
GG5270	14B-CO2-T	30.06	10000
GG5271	14B-CO2-B	30.04	18.[c]
GG5276/Blank	N/A	30[b]	<.03[b]
GG5277/Blank	N/A	30[b]	<.03[b]

a)Sample spiked with 10 µg Aroclor 1260.
b)Assumed 30g sample weight.
c)Estimate based on instrument response below calibration range.

APPENDIX C

Tim Soward
ITAS CINCINNATI
Date: 05-June-92
Client Project ID: C2-05-052 SAL Project No.: 484667

IT ANALYTICAL SERVICES
304 DIRECTORS DRIVE
KNOXVILLE, TN
(615) 690-3211

Appendix C

WIPE SAMPLES RESULTS

Units: µg

SAL Sample No.	Client Sample Number	Aroclor 1260 (µg)
GG5246	3F-PAP-1	6500000
GG5247	3F-WP1	4200000
GG5248	3F-WP2	270000
GG5249	3F-WP3	3600
GG5250	3F-WP4	800[c]
GG5251	3F-WP5	500[c]
GG5252	3F-WP6	2800000[d]
GG5253	3F-WP7	260000
GG5260	14B-WP1	210000
GG5261	14B-WP2	200000
GG5262	14B-WP3	2600000[d]
GG5263	14B-WP4	1700000
GG5264	14B-WP5	290000
GG5265	14B-WP6	720000
GG5266	14B-WP7	900000
GG5267	14B-WP8	2900
GG5274/Blank	N/A	<1.0
GG5275/Blank	N/A	<1.0

c)Estimate based on instrument response below calibration range.
d)Estimated based on instrument response above calibration range.

APPENDIX D

#484667

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD (cont.)*

Reference Document No.[30] _____

Project Name KILBOURNE AVE

Project No. C2-05-052

Samples Shipment Date _____

ONE CONTAINER PER LINE

Sample[14] Number	Sample[15] Description/Type	Date/Time[16] Collected	Container[17] Type	Sample[18] Volume	Pre-[19] servative	Requested Testing[20] Program	Condition on[21] Receipt	Disposal[22] Record No.
composite 14B-C01-B		5-6-92 1240	8oz	8oz	Na	PCB 8080	intact 2°C	
" 14B-C01-T		5-6-92 1255					FOR LAB USE ONLY	
" 14B-C02-T		5-6-92 1410						
" 14B-C02-B		5-6-92 1420					FOR LAB USE ONLY	
wipe 14B-WP1		5-5-92 1700	4oz	10cm²				
14B-WP2		5-5-92 1705	4oz				FOR LAB USE ONLY	
14B-WP3		5-5-92 1712	4oz					
14B-WP4		5-5-92 1718					FOR LAB USE ONLY	
14B-WP5		5-5-92 1724						
14B-WP6		5-5-92 1727					FOR LAB USE ONLY	
14B-WP7		5-6-92 1735						
14B-WP8		5-5-92 1740					FOR LAB USE ONLY	
14B-C01-B		5-5-92 1325	8oz	8oz				
14B-C01-T		5-5-92 1335					FOR LAB USE ONLY	
14B-C02-T		5-5-92 1355						
14B-C02-B		5-5-92 1400					FOR LAB USE ONLY	

White: To accompany samples

Yellow: Field copy

*See back of form for special instructions.

#40166

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

C2-05-052

Reference Document No. 353[redacted]
Page 1 of 2

Project Name/No. 1 Kilbourne AVE
Sample Team Members 2 K. Webb
Profit Center No. 3 4671
Project Manager 4 Tim Soward
Purchase Order No. 6
Required Report Date 11 5-20-92

Samples Shipment Date 7 5-11-92
Lab Destination 8 ~~ITAS St. Louis~~ Carrizos
Lab Contact 9 ~~[illegible]~~ TRACY SIDWELL
Project Contact/Phone 12 Soward 513-782-[illegible]
Carrier/Waybill No. 13

Bill to: 5 ITAS CINTI
Report to: 10 Tim Soward ITAS Cinti

ONE CONTAINER PER LINE

Sample Number 14	Sample Description/Type 15	Date/Time Collected 16	Container Type 17	Sample Volume 18	Pre-servative 19	Requested Testing Program 20	Condition on Receipt 21	Disposal Record No. 22
Wipe 3F-PAP-1		5-6-92 1015	2x4oz	8oz	NA	PCB 8080	intact 2°C	
3F-WP1		5-6-92 1020	1x4oz	10cm²				
3F-WP2		5-6-92 1035						
3F-WP3		5-6-92 1045						
3F-WP4		5-6-92 1050						
3F-WP5		5-6-92 1055						
3F-WP6		5-6-92 1105						
3F-WP7		5-6-92 1110						

FOR LAB USE ONLY

FOR LAB USE ONLY

Special Instructions: 23 Need Results by May 20

Possible Hazard Identification: 24 PCB's
Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐

Sample Disposal: 25
Return to Client ☐ Disposal by Lab ☑ Archive (mos.)

Turnaround Time Required: 26
Normal ☐ Rush ☐

QC Level: 27
I. ☐ II. ☐ III. ☐ Project Specific (specify):

1. Relinquished by 28 (Signature/Affiliation) Tim Soward ITAS	Date: 5-11-92 Time: 13:30	1. Received by 28 (Signature/Affiliation) Marc Tippings	Date: 5/12/92 Time: 0900
2. Relinquished by (Signature/Affiliation)	Date: Time:	2. Received by (Signature/Affiliation)	Date: Time:
3. Relinquished by (Signature/Affiliation)	Date: Time:	3. Received by (Signature/Affiliation)	Date: Time:

Comments: 29

4 66

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

Reference Document No. 4046
Page 1 of 3

Project Name/No. [1] ITAS-Carrizo
Sample Team Members [2]
Profit Center No. [3] 4640
Project Manager [4] Tracy Sidwell
Purchase Order No. [6] —
Required Report Date [11] ASAP

Samples Shipment Date [7] 5/21/92
Lab Destination [8] IT TDL
Lab Contact [9] Duane Root
Project Contact/Phone [12] (615) 690 3211
Carrier/Waybill No. [13] 2063121410

Bill to: [5] ITAS-Carrizo
17605 Fabrica Way
Carrizo, Ca 90701

Report to: [10] Same

ONE CONTAINER PER LINE

Sample Number [14]	Sample Description/Type [15]	Date/Time Collected [16]	Container Type [17]	Sample Volume [18]	Preservative [19]	Requested Testing Program [20]	Condition on Receipt [21]	Disposal Record No. [22]
2-05-052 01A	PCB wipe extract	See Orig Chain	vials	see attached		PCB's	Coolers temp at 2°C. Samples OK. DLW 5-22-92	
02A								
03A								
04A								
05A								
06A								
07A								
08A								

Special Instructions: [23] Hazardous - Wear Gloves. PCB contaminated / EXPECT HIGH LEVELS.

Possible Hazard Identification: [24]
Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☑

Sample Disposal: [25]
Return to Client ☐ Disposal by Lab ☑ Archive (mos.)

Turnaround Time Required: [26]
Normal ☐ Rush ☑

QC Level: [27]
I. ☐ II. ☐ III. ☐ Project Specific (specify):

1. Relinquished by [28] (Signature/Affiliation) Marc Jippings	Date: 5/21/92 Time: 15:30	1. Received by [28] (Signature/Affiliation) Mark W Supple, SHL	Date: 5-22-92 Time: 0900
2. Relinquished by (Signature/Affiliation)	Date: Time:	2. Received by (Signature/Affiliation)	Date: Time:
3. Relinquished by (Signature/Affiliation)	Date: Time:	3. Received by (Signature/Affiliation)	Date: Time:

Comments: [29]

B5-C

MCA 3/15/91

WHITE - To accompany samples
YELLOW - Field copy
PINK - Lab copy
GREEN - Project specialist

#484667

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD (cont.)*

Reference Document No.[30] 334046

Page 2 of 2

Project Name

Project No.

Samples Shipment Date

ONE CONTAINER PER LINE

Sample[14] Number	Sample[15] Description/Type	Date/Time[16] Collected	Container[17] Type	Sample[18] Volume	Pre-[19] servative	Requested Testing[20] Program	Condition on[21] Receipt	Disposal[22] Record No.
205.052094	PCB xtract	See original COC	See attached			PCB	OK. MW 5-22-92	
10A								
11A								
11AMS								
11AMSD								
12A								
13A								
14A								
15A								
16A								
17A								
18A								
19A								
20A								
24								
22A								
23A								
24A								
Blank N								
101.1 MCD								

White: To accompany samples

Yellow: Field copy

*See back of form for special instructions

M

Illinois State Geological Survey
Urbana, Illinois
Kropp Forge Co. Well

T39N S21
COOK

Elevation: 610' Estimate Topo Map
Drilled 1955 by Milaeger Well Co.

Sample set #26182
Studied 1956 by C.H. Emrich

PLEIST.		81	10	10		Soil; gravel, brown, black, calcareous
			71	81		No Samples
SILURIAN	NIAGARAN	224	9	90		No Samples
			10	100		Dolomite, silty, cherty, buff to gray
			20	120		No Samples
			45	165		Dolomite, silty, buff to gray
			40	205		Dolomite, silty, cherty, buff to gray
			40	245		Dolomite, silty, white to gray
			55	300		Dolomite, silty, buff, granular
			5	305		Dolomite, buff, pink, orange, crystalline
	MANITOU	65	45	350		Dolomite, silty, buff to gray, fine
			20	370		No Samples
	ENGLEWOOD	25	10	380		Dolomite, very silty, buff to gray, fine
			15	395		No Samples
ORDOV.	MAQUOKETA	195	10	405		Shale, silty; dolomite, greenish gray
			33	438		No Samples
			2	440		Dolomite, very silty; shale, gray, buff
			25	465		No Samples (one out of place)
			10	475		Dolomite, very silty, gray; shale, buff
			20	495		Shale, silty, buff gray, weak to brittle
			25	520		No Samples
			15	535		Shale, dolomitic, gray to greenish gray
			55	590		No Samples
	GALENA	170	70	660		Dolomite, buff to brownish buff
			35	695		Dolomite, silty, buff, brown, gray
			35	730		Dolomite, silty, buff to grayish brown
			30	760		No Samples
	DECORAH	5	5	765		Dolomite, buff, pink, speckled red

26" O.D. CASING
81'
20" O.D. CASING
25" HOLE
462' STATIC WATER LEVEL
595'

PLATTEVILLE	120	20	825	No Samples
		55	880	Dolomite, buff to gray, fine, crystalline
		5	885	No Samples
		5	890	Sandstone, white, gray, frosted, rounded
		15	905	No Samples
GLENWOOD	60	30	935	Sandstone, silty, gray, fine, coarse
		10	945	No Samples
		10	[illegible]	Sandstone, white to gray, fine, frosted
		[illegible]	965	Sandstone, silty, white, gray, fine
ST. PETER	85	51	1016	No Samples
		14	1030	Sandstone, as above; dolomite, gray
		10	1040	Dolomite, cherty, white to gray, fine
		25	1065	No Samples
		45	1110	Dolomite, very siliceous, gray to buff
ONEIDA	130	5	1115	No Samples
		15	[illegible]	Dolomite, very silty, gray; shale, weak
		70	1200	No Samples
		35	1235	Dolomite, silty, buff, fine, dense
TREMPEALEAU	125	20	1255	No Samples
		15	1270	Dolomite, silty, buff, pink, gray, dense
		55	1325	Dolomite, silty, buff to gray; little sand
		5	1330	Sandstone, glauconitic, light green
		10	1340	Dolomite, glauconitic, sandy, gray, buff
		10	1350	Sandstone, glauconitic, dolomitic, green
		10	1360	No Samples
FRANCONIA	90	5	1365	Sandstone, glauconitic, light gray to buff
		40	1405	No Samples
		10	1415	Sandstone, dolomitic, gray, glauconitic
		10	1425	Sandstone, dolomitic, light gray to buff
IRONTON	130	80	1505	Sandstone, white to light gray
		40	1545	Sandstone, very silty, light gray
		10	1555	No Samples
GALESVILLE	35	25	1580	Sandstone, white, light gray
		20	1600	Sandstone, very dolomitic, brown
EAU CLAIRE	55	10	1610	No Samples
		25	[illegible]	Dolomite, very silty, brown; shale, brown 15 feet of no samples

19" HOLE

1325'

15" HOLE

Arthington

Sears Roebuck & Company, ~~Harvard~~ St. & Homan Ave., Chicago, Ill.
Location: Section 14, T.39N., R.13E.
Elevation: 590

Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
Quarternary System				
Pleistocene Deposits				
Surface sand and clay	18		18	
Clay, blue	56		74	
Hard pan	3		77	
Silurian System				
Niagara limestone				
Limestone, white	126		203	
Limestone, yellow	9		212	
Limestone, white	39		251	
Limestone, dark gray	116		367	
Ordovician System				
Maquoketa				
Shale, blue	186		553	
Galena-Trenton Limestone				
Limestone, dark gray	112		665	
Limestone, gray	13		678	
Limestone	175		853	
Limestone, sandy and shaly	5		858	
Limestone, shaly	20		878	
Limestone	120		998	
St. Peter Sandstone				
Sandstone	35		1033	
Lower Magnesian Limestone				
Limestone, gray	113		1146	
Limestone, gray	107		1253	
Shale, sandy	25		1278	
Shale, green, sandy	15		1293	
Shale, sandy	5		1298	
Limestone, sandy	16		1314	
Sandstone and shale	14		1328	
Shale, sandy and limestone	33		1361	
Cambrian System				
Potsdam Series				
Sandstone	187		1548	
Limestone, gray	10		1558	
Shale and limestone	30		1588	
Shale	80		1668	
Red marl	30		1698	
Shale and limestone	60		1758	
Shale	30		1788	
Shale, blue	34		1822	
Sandstone	26		1848	
Shale	20		1868	
Sandstone	182		2050	

date? July 1968?

Western Electric Company, Well No. 3
890'S & 840'E of NW corner, Section 27, T. 39N., R. 13E.
Cook County

Log:

Formation	From	To
Clay with 1 or 2 thin layers of gravel	0	68'
Niagara limestone	68	331
Hudson River shale	331	539
Galena Trenton limestone	539	860
St. Peter limestone	860	1005
Green shale	1005	1030
Lower Magnesia limestone	1030	1037
Green shale	1037	1050
Lower Magnesia limestone (note-rock crevices vary from 1 to 5' at 1130', 1150', 1165', 1170', 1185')	1050	1190
Potsdam sandstone (note-rock at 1220')	1190	1335
Lower Magnesia limestone	1335	1380
Potsdam sandstone (original well depth = 1489')	1380	1574

Hole Record: 17 1/2" 0-68'; 16" 68-300'; 12" 300-541'; 10" 541-1050'; 8" 1050-1574'

Casing Record: 16" pipe 0-68'; starting at 0', 282' 10 1/2" of 12" steel pipe, 1' 7 1/2" of 10" x 12" swedged nipple, 247' of 10" steel pipe;
drop casing starting at +1', 274' 1/2" of 10" steel pipe, 1' 4 1/2" of 8" x 10" swedged nipple, 558'9" of 8" steel pipe; 8" pipe liner 989-1050'.

Air drop pipe: 280' 3 1/4" casing, 6 1/2" of 3" x 3 1/4" swedged nipple, 348' 11" of 3" casing; 5' 6 1/2" air lift.

NOTE: Concrete base in basement is 7'6" below ground level.
Total length of 1/4" air measuring pipe = 658' 1 1/2"
Original drilled & completed July 3, 1912.
Repairs in 1941 were done by Gray Well Company.
Started May 23 & completed Oct. 24.
The work consisted of the complete replacement of all piping including 8" + 10" wall liners. Also the depth of the well was lowered approx. 85'. Sounding taken 10-18-41 indicated water level at 336' below ground level. Test of hardness of water was 22 grains per gallon.

Data & Information on Well at Dryden Rubber Co., 1014 Kildare Street.

Notes taken from field book of Brodie Price, 305 S. 11th Ave, Maywood, Ill

Started Jan 8th & completed March 16th, 1934
When the well was drilled to a depth of 1152 ft, the static water level was 33 ft below the surface. At this depth a crevice was struck said to be about 3 ft deep and the water level dropped to a depth of 125 ftoet below the surface. At 1172 ft, another crevice about 2 ft was struck and the W.L. dropped to 268 ft and there it remained.

Rock was struck at a depth of 68 ftft. & bottom of casing went 7 ft into rock at 75 ft below the surface.

68 - 278 ft white limestone
278 - 284 ft, red rock
284 - 340 ft, gray limestone
340 - 575 ft, blue shale
575 - 880 ft, limestone
580 reduced hole from 12 inch to 10 inch
252ft of 10 " liner with top set at 338 ft, bottom at 590?
880 - 1054 ft, St. Peters sandstone
1054 - 1059 ft, grey shale cavy
1059 - 1073 ft, sandy limestone
1073 -1077 ft, sandy shale cavy
1141 - 1145 ft, gray shale
1145- 1152 ft, white lime
1155 ft 110 ' lime cutting
1175 - 1177 crevice, water dropped to 268 ft.
1177 - 1250 ft, lime no cutting
1250 - 1285 ft, brown limestone
1285 - 1300 ft, gray limestone
1300 - 1340 ft, lime and shale
1340--1373 ft, gray shale
1373 - 1553 ft, Potsdam (Dresbach)
1553 - 1650 ft, limestone (well was deepened to 1650 ft,contract agreement)
1948
82.5 ft of 8" liner with bottom at 1375 ft.

If this is sent to S.GS., Mr Price requests a plotted log of this well .

At a depth of 1230 ft, a sample for analysis was taken by Dearborn chemical Co.:-

Silica	0.70
Oxide Fe & Al	.046
Carbonate, Ca	2.803
" Mn	.247
Na_2SO_4	1.738
Na Cl	4.080
Na_2CO_3	8.521
Nitrate	faint
Total solids	17.155
susp matter	5.489
Incrust. solids	3.796
Non-Inc. solids	13.359
Lbs/1000	.54
non incrustating	1.91

copy of this analysis, onfile at office of S.B.GEiger.

Data on well at Dryden Rubber Co.

At the time of the writer's visit, the well was just completed and the depth was being measured . Mr. Gieger, Jr gave the following information re pumping unit:-

A sterling deep well unit will be installed within the next three weeks, it will have a setting of 350 ft to the top of the bowls, and will have a capacity of 500 g.p.m. the unit will be motoer driven by a 100 or 150 h.p. motor. The installation was guaranteed to deliver 500 g.p.m. continuously, but the writer was unable to determine how the well was to be tested. Also the engineer stated that no sewer was available to carry 500 gpm.

A.A.B. explained the work of the Survey and the extent and duties of the Water Survey to the assistant supt and engineer. The V.P. Mr. Reeves was rather reluctant in permitting me to get information regarding the well, stating that he could see no value to him or his company, but after 10 minutes of explanation, he consented to my requests.

Notes from office of S.B.G.,

Surface to 63 ft, soil, struck rock at 68 ft.
Installed 72'-4" of 12 inch surface pipe.

68- 278 ft. lime stone
27[illegible] - 340 ft lime stone to- of 252.5 ft of 10 " liner
340 - 575 ft shale reduced hole to 10" at 580
575 - 880 ft lime
880 - 1054 ft St Peter sandstone- had streaks of white mud that coated hol hole very badly. Top of 10" liner installed, approx 3 ft off for threads or 249.5 ft bottom of 10" liner 589.5 ft; had to install 10" liner before getting thru ST. peters sandstone. 10" liner installed to case off shale when well was 980 ft.
1054 - 1059 ft, gray shale
1059 - 1073 ft, sandy lime
1073 - 1077 ft, gray shale
1077 - 1141 ft, white lime
- 1145 ft, gray shale
- 1250 ft, white lime, picked up cuttings
- 1285 ft brown limestone
1155 ..... no cuttings
1159 ,,,,,,,,, water raied to 60 ft, discolored with reddish coating.
1175 - 1177 ft, crevice water dropped to 287 ft.
1190 water raied to 268 ft.
1373 - 1553 ft Potsdam sandstone
1153 to 1650 ft, brown limestone.
1648

De not think that these notes on the water levels is as accurate as given to me during discussion of it with Mr Price.

82.5 ft of 8" liner #28 steel pipe, set at 1375 feep, top at 1293 ft.
completed drilling noon 3/20/34 ...S.W.L. 267 ft.

N

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY

TELEPHONE CONVERSATION RECORD

Cook
COUNTY

DLPC
DIVISION

Valspar Paints / ILD 081 040 107 I. D. or FILE NO. ____

Re: Chicago Black Co.

Conversation with: Ray Vandewalle

(X) I Called Party ( ) Party Called Me DATE 8/17/92 TIME 3:05 pm

( ) Complainant ( ) Violator ( ) Public Inquiry ( ) Partitioner

What I Said:	What Other Party Said:
(1) INTRO	
(2) Is your water supplied by the City of Chicago?	(3) No, we get our water from wells, but all of our drinking water is supplied by bottled water. The well water is industrial use only.
(4) Closing	

use reverse side if necessary

Bill Bade
Signature

Proj. Mgr.
Title

IL 532-0727
EPA 129 (Rev. 1/81)

Over

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY

TELEPHONE CONVERSATION RECORD

Cook
COUNTY

DLPC
DIVISION

Valspar Paints / ILD 081 040 107 I. D. or FILE NO.

Re: Bethany Hospital

Conversation with: George Smith

(X) I Called Party ( ) Party Called Me DATE 8/17/92 TIME 2:30 pm

( ) Complainant ( ) Violator ( ) Public Inquiry ( ) Partitioner

What I Said:	What Other Party Said:
(1) INTRO	
(2) What is the source of your drinking water?	(3) Supplied by the City of Chicago.
(4) Closing.	

use reverse side if necessary

Bill Bach
Signature

Proj. Man.
Title

IL 532-0727
EPA 129 (Rev. 1/81)

Over

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY

TELEPHONE CONVERSATION RECORD

Cook
COUNTY

DLPC
DIVISION

Valspar Paints / ILD 081 040 107 I. D. or FILE NO.

Re: West Sub Hospital Medical Center

Conversation with: Tom Hooper

(X) I Called Party ( ) Party Called Me DATE 8/17/92 TIME 2:40 pm

( ) Complainant ( ) Violator ( ) Public Inquiry ( ) Partitioner

What I Said:	What Other Party Said:
(1) INTRO	
(2) What is the source of your drinking water	(3) Supplied by the City of Chicago. I am very much involved with the water district here and would be greatly suprised to find any hospitals having their own wells.
(4) Closing	

use reverse side if necessary

Bill Bade
Signature

Proj. Man.
Title

IL 532-0727
EPA 1-29 (Rev. 1/81)

Over

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY

TELEPHONE CONVERSATION RECORD

Cook
COUNTY

DLPC
DIVISION

Valspar Paints / ILD 081 040 107 I. D. or FILE NO.

Re: Chicago Park District, Water Source

Conversation with: Alvin Carey, Chicago Park District Engineer

(X) I Called Party ( ) Party Called Me DATE 7/30/92 TIME 14:15

( ) Complainant ( ) Violator ( ) Public Inquiry ( ) Partitioner

What I Said:	What Other Party Said:
(1) Introduction I'd like to get some information about the water source for the parks in Chicago. Do any of the parks have their own wells?	
	(2) No, all the parks get their water from the City
(3) Is this the water used for people (visitors) and for the ponds/lagoons?	
	(4) Yes, but plans are being made to sink a well for the Sherman Park Lagoon.
(5) Thank you for your time.	

use reverse side if necessary

Bill Bade
Signature

Proj. Man.
Title

IL 532-0727
EPA 129 (Rev. 1/81)

Over

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY

TELEPHONE CONVERSATION RECORD

Cook
COUNTY

DLPC
DIVISION

Valspar Paints / ILD 081 040 107 I. D. or FILE NO.

Re: Fleischmann Yeast

Conversation with:

(X) I Called Party ( ) Party Called Me DATE 8/17/92 TIME 2:57 pm

( ) Complainant ( ) Violator ( ) Public Inquiry ( ) Partitioner

What I Said:	What Other Party Said:
(1) INTRO	
(2) What is the source of your drinking water?	(3) Supplied by the City of Chicago.
(4) Closing.	

use reverse side if necessary

W A Baker
Signature

Proj. Man.
Title

IL 532-0727
EPA 129 (Rev. 1/81)

Over

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY

TELEPHONE CONVERSATION RECORD

Cook
COUNTY

DLPC
DIVISION

Valspar Paint / ILD 081 040 107 I. D. or FILE NO.

Re: Water Reclamation District (312)-751-5600

Conversation with: Jim Jackson

(X) I Called Party ( ) Party Called Me DATE 8/26/92 TIME 11:55

( ) Complainant ( ) Violator ( ) Public Inquiry ( ) Partitioner

What I Said:	What Other Party Said:
(1) INTRO	
(2) Can you tell me where sewage waste collected by South Kilbourne and 14th Street will end up?	
	(3) The sewage lines drain southwest toward the Stickney Plant, near the Chicago Sanitary and Ship Canal.
(4) Is there any chance it could head either north towards the North Branch Chicago River or west to the Des Plaines River?	
	(5) No, it doesn't go in those directions. Grand Avenue is the dividing line for sewage lines heading north.
(6) Closing	

use reverse side if necessary

Bill Bade
Signature

Project Manager
Title

IL 532-0727
EPA 129 (Rev. 1/81)

Over

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY

TELEPHONE CONVERSATION RECORD

Cook
COUNTY

Dupc
DIVISION

Valspar Paint / ILD 081 040 107 I. D. or FILE NO.

Re: Water Reclamation District (312) 751-5600

Conversation with: Roberta Harper

(X) I Called Party ( ) Party Called Me DATE 8/27/92 TIME 1:30

( ) Complainant ( ) Violator ( ) Public Inquiry ( ) Partitioner

What I Said:	What Other Party Said:
(1) INTRO	
(2) What happens to large amounts of storm water in Chicago?	(3) Storm water runoff is collected in a large underground tunnel along with sewage water, and eventually treated at the Stickney Sewage Disposal Plant. After treatment, it is released to the Chicago Sanitary & Ship Canal.
(4) What about extremely large storm floods, Where the tunnel filled to capacity? What happens to this water?	(5) It would be highly unlikely for that to happen (the tunnel getting full) but in that case the tunnel would directly discharge into the canal.
(6) Closing	

use reverse side if necessary

Bill Bade
Signature

Proj. Manager
Title

IL 532-0727
EPA 129 (Rev. 1/81)

Over

BIBLIOGRAPHY

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Illinois Department of Transportation aerial photographs. Bureau of Location and Environment, Aerial Survey Section, 1988.

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International Technology Corporation, Itasca, Il. Draft Site Investigation Report, Vol I & II, July 1992.

International Technology Corporation, St. Paul, Mn. Settlement Proposal Phase I Report, Vol I & II, October 1990.

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Kinsey, James A, Waste Reduction, White Bear Lake, Mn. Phase I Identification Response Action, October 23, 1985.

PRC Environmental Management, Inc., Chicago, Il. Preliminary Assessment/Visual Site Inspection, April 1992.

P

OMB Approval Number: 2050-0095
Approved for Use Through: 1/92

EPA Potential Hazardous Waste Site Preliminary Assessment Form

Identification

State: IL | CERCLIS Number: ILD 081040107

CERCLIS Discovery Date: FEB 19, 1991

1. General Site Information

Name: VALSPAR PAINT

Street Address: 1330 SOUTH KILBOURNE AVE

City: CHICAGO | State: IL | Zip Code: 60623 | County: COOK | Co. Code: 031 | Cong. Dist:

Latitude: 41° 51' 50.0" | Longitude: 087° 44' 10.0"

Approximate Area of Site: 4.5 Acres ____ Square Ft

Status of Site: ☐ Active ☐ Not Specified ■ Inactive ☐ NA (GW plume, etc.)

2. Owner/Operator Information

Owner: Goodwill Ind. of Chicago & Cook County, Inc.

Street Address: 601 West Polk Street

City: Chicago | State: IL | Zip Code: 60607 | Telephone: (312) 939-0040

Operator: Valspar Corp (former)

Street Address: 1101 South Third St. P.O. Box 1461

City: Minneapolis | State: MN | Zip Code: 55440 | Telephone: (612) 375-7973

Type of Ownership:
- ☐ Private
- ☐ Federal Agency Name ____
- ☐ State
- ☐ Indian
- ☐ County
- ☐ Municipal
- ☐ Not Specified
- ■ Other Not for Profit

How Initially Identified:
- ☐ Citizen Complaint
- ☐ PA Petition
- ☐ State/Local Program
- ■ RCRA/CERCLA Notification
- ☐ Federal Program
- ☐ Incidental
- ☐ Not Specified
- ☐ Other ____

3. Site Evaluator Information

Name of Evaluator: BILL BADE

Agency/Organization: Illinois EPA / Remedial Project Management

Date Prepared: SEPT 1, 1992

Street Address: 2200 Churchill Road | City: Springfield | State: IL

Name of EPA or State Agency Contact: BILL BADE

Street Address:

City: | State: | Telephone: (217) 782-6760

4. Site Disposition (for EPA use only)

Emergency Response/Removal Assessment Recommendation:
- ☐ Yes
- ☐ No
- Date: ____

CERCLIS Recommendation:
- ☐ Higher Priority SI
- ☐ Lower Priority SI
- ☐ NFRAP
- ☐ RCRA
- ☐ Other ____
- Date: ____

Signature:

Name (typed):

Position:

CONFIDENTIAL

EPA Potential Hazardous Waste Site
Preliminary Assessment Form - Page 2 of 4

CERCLIS Number: 081040107

5. General Site Characteristics

Predominant Land Uses Within 1 Mile of Site (check all that apply):

- ■ Industrial
- ■ Commercial
- ■ Residential
- ☐ Forest/Fields
- ☐ Agriculture
- ☐ Mining
- ☐ DOD
- ☐ DOE
- ☐ DOI
- ☐ Other Federal Facility
- ☐ Other

Site Setting:

- ■ Urban
- ☐ Suburban
- ☐ Rural

Years of Operation:

Beginning Year Unknown

Ending Year 1984

☐ Unknown

Type of Site Operations (check all that apply):

- ■ Manufacturing (must check subcategory)
  - ☐ Lumber and Wood Products
  - ☐ Inorganic Chemicals
  - ☐ Plastic and/or Rubber Products
  - ■ Paints, Varnishes
  - ☐ Industrial Organic Chemicals
  - ☐ Agricultural Chemicals (e.g., pesticides, fertilizers)
  - ☐ Miscellaneous Chemical Products (e.g., adhesives, explosives, ink)
  - ☐ Primary Metals
  - ☐ Metal Coating, Plating, Engraving
  - ☐ Metal Forging, Stamping
  - ☐ Fabricated Structural Metal Products
  - ☐ Electronic Equipment
  - ☐ Other Manufacturing
- ☐ Mining
  - ☐ Metals
  - ☐ Coal
  - ☐ Oil and Gas
  - ☐ Non-metallic Minerals
- ☐ Retail
- ☐ Recycling
- ☐ Junk/Salvage Yard
- ☐ Municipal Landfill
- ☐ Other Landfill
- ☐ DOD
- ☐ DOE
- ☐ DOI
- ☐ Other Federal Facility
- ■ RCRA
  - ■ Treatment, Storage, or Disposal
  - ☐ Large Quantity Generator
  - ☐ Small Quantity Generator
  - ☐ Subtitle D
    - ☐ Municipal
    - ☐ Industrial
  - ☐ "Converter"
  - ☐ "Protective Filer"
  - ☐ "Non- or Late Filer"
- ☐ Not Specified
- ☐ Other

Waste Generated:

- ■ Onsite
- ☐ Offsite
- ☐ Onsite and Offsite

Waste Deposition Authorized By:

- ☐ Present Owner
- ■ Former Owner
- ☐ Present & Former Owner
- ☐ Unauthorized
- ☐ Unknown

Waste Accessible to the Public:

- ■ Yes
- ☐ No

Distance to Nearest Dwelling, School, or Workplace:

>200 Feet

6. Waste Characteristics Information

Source Type: (check all that apply)	Source Waste Quantity: (include units)	Tier*:
■ Landfill	12,910 ft²	A
☐ Surface Impoundment		
■ Drums	1155 gal	W
■ Tanks and Non-Drum Containers	562,665 gal	V
☐ Chemical Waste Pile		
☐ Scrap Metal or Junk Pile		
☐ Tailings Pile		
☐ Trash Pile (open dump)		
☐ Land Treatment		
☐ Contaminated Ground Water Plume (unidentified source)		
☐ Contaminated Surface Water/Sediment (unidentified source)		
■ Contaminated Soil	2.25 acres	A
☐ Other		
☐ No Sources		

* C = Constituent, W = Wastestream, V = Volume, A = Area

General Types of Waste (check all that apply)

- ■ Metals
- ■ Organics
- ■ Inorganics
- ■ Solvents
- ■ Paints/Pigments
- ☐ Laboratory/Hospital Waste
- ☐ Radioactive Waste
- ■ Construction/Demolition Waste
- ■ Pesticides/Herbicides
- ☐ Acids/Bases
- ■ Oily Waste
- ☐ Municipal Waste
- ☐ Mining Waste
- ☐ Explosives
- ☐ Other

Physical State of Waste as Deposited (check all that apply):

■ Solid ■ Sludge ■ Powder
■ Liquid ■ Gas

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7. Ground Water Pathway

Is Ground Water Used for Drinking Water Within 4 Miles:
- ☐ Yes
- ☒ No

Type of Drinking Water Wells Within 4 Miles (check all that apply):
- ☐ Municipal
- ☐ Private
- ☒ None

Is There a Suspected Release to Ground Water:
- ☒ Yes
- ☐ No

Have Primary Target Drinking Water Wells Been Identified:
- ☒ Yes
- ☐ No

If Yes, Enter Primary Target Population: Ø People

Depth to Shallowest Aquifer: UNKNOWN Feet

Karst Terrain/Aquifer Present:
- ☐ Yes
- ☒ No

Nearest Designated Wellhead Protection Area:
- ☐ Underlies Site
- ☐ >0 - 4 Miles
- ☒ None Within 4 Miles

List Secondary Target Population Served by Ground Water Withdrawn From: N/A

0 - ¼ Mile	
> ¼ - ½ Mile	
> ½ - 1 Mile	
> 1 - 2 Miles	
> 2 - 3 Miles	
> 3 - 4 Miles	
Total Within 4 Miles	

8. Surface Water Pathway

Type of Surface Water Draining Site and 15 Miles Downstream (check all that apply):
- ☐ Stream ☐ River ☐ Pond ☐ Lake
- ☐ Bay ☐ Ocean ☒ Other CANAL

Shortest Overland Distance From Any Source to Surface Water:
100 Feet to sewer drains
4 Miles to Chicago Sanitary & Ship Canal.

Is There a Suspected Release to Surface Water:
- ☒ Yes
- ☐ No

Site is Located in:
- ☐ Annual - 10 yr Floodplain
- ☐ >10 yr - 100 yr Floodplain
- ☐ >100 yr - 500 yr Floodplain
- ☒ >500 yr Floodplain

Drinking Water Intakes Located Along the Surface Water Migration Path:
- ☐ Yes
- ☒ No

Have Primary Target Drinking Water Intakes Been Identified:
- ☐ Yes
- ☒ No

If Yes, Enter Population Served by Primary Target Intakes: _____ People

List All Secondary Target Drinking Water Intakes:

Name	Water Body	Flow (cfs)	Population Served
None			

Total within 15 Miles _____

Fisheries Located Along the Surface Water Migration Path:
- ☐ Yes
- ☒ No

Have Primary Target Fisheries Been Identified:
- ☐ Yes
- ☒ No

List All Secondary Target Fisheries:

Water Body/Fishery Name	Flow (cfs)
N/A	

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8. Surface Water Pathway (continued)

Wetlands Located Along the Surface Water Migration Path:
- [x] Yes
- [ ] No

Have Primary Target Wetlands Been Identified:
- [x] Yes
- [ ] No

List Secondary Target Wetlands:

Water Body	Flow (cfs)	Frontage Miles

Other Sensitive Environments Located Along the Surface Water Migration Path:
- [x] Yes
- [ ] No

Have Primary Target Sensitive Environments Been Identified:
- [ ] Yes
- [x] No

List Secondary Target Sensitive Environments:

Water Body	Flow (cfs)	Sensitive Environment Type
Chicago Sanitary & Ship Canal	4170	Natural Area Inventory Site #25

9. Soil Exposure Pathway

Are People Occupying Residences or Attending School or Daycare on or Within 200 Feet of Areas of Known or Suspected Contamination:
- [x] Yes
- [ ] No

If Yes, Enter Total Resident Population: 4 People

Number of Workers Onsite:
- [x] None
- [ ] 1 - 100
- [ ] 101 - 1,000
- [ ] >1,000

Have Terrestrial Sensitive Environments Been Identified on or Within 200 Feet of Areas of Known or Suspected Contamination:
- [ ] Yes
- [x] No

If Yes, List Each Terrestrial Sensitive Environment:

10. Air Pathway

Is There a Suspected Release to Air:
- [x] Yes
- [ ] No

Enter Total Population on or Within:

Onsite	4
0 - ¼ Mile	2430
>¼ - ½ Mile	7296
>½ - 1 Mile	28,879
>1 - 2 Miles	124,451
>2 - 3 Miles	218,798
>3 - 4 Miles	354,351
Total Within 4 Miles	736,209

Wetlands Located Within 4 Miles of the Site:
- [x] Yes
- [ ] No

Other Sensitive Environments Located Within 4 Miles of the Site:
- [ ] Yes
- [x] No

List All Sensitive Environments Within ½ Mile of the Site:

Distance	Sensitive Environment Type/Wetlands Area (acres)
Onsite	
0 - ¼ Mile	
>¼ - ½ Mile	

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