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R-585-8-4-11 SITE INSPECTION OF DOMINO SALVAGE PREPARED UNDER

TDD NO. F3-8311-12 EPA NO. PA-789 CONTRACT NO. 68-01-6699

FOR THE

HAZARDOUS SITE CONTROL DIVISION U.S. ENVIRONMENTAL PROTECTION AGENCY

JUNE 14, 1985

NUS CORPORATION SUPERFUND DIVISION

SUBMITTED BY

REVIEWED BY

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MICHAEL NALIPINSKI ENVIRON. SPECIALIST

WILLIAM WENTWORTH ASSISTANT MANAGER

APPROVED BY

GARTH GLENN MANAGER, FIT III

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SECTION I

1.0 INTRODUCTION

1.1 Authorization

NUS performed this work under Environmental Protection Agency Contract No. 68-01-6699. This specific report was prepared in accordance with Technical Directive Document No. F3-8311-12 for the Domino Salvage/Warehouse 81 site located in Montour County, Pennsylvania.

1.2 Scope of Work

NUS Corporation, FIT III was tasked to perform a joint site inspection with the Pennsylvania Department of Environmental Resources (PA DER), Region IV, Solid Waste Division at the aforementioned site. A Hazardous Ranking System was also performed for the Domino Salvage site. The scores were $S_m = 46.44$, $S_{gw} = 79.59$, and $S_{sw} = 10.91$.

1.3 Summary

The Domino Salvage/Warehouse 81 site is currently closed due to PA DER legal actions. Prior to this closure, secondary recovery of copper from scrap wires was conducted using both chemical and mechanical processes. The by-product of these recovery processes is fluff material, which consists of finely divided metal wire scraps. There is an estimated 4,356,000 cubic feet of fluff remaining on site.

Results of the site inspection conducted by FIT III on February 15, 1984 indicated elevated concentrations of copper and lead in the waste piles, surface waters, groundwater, and off-site home wells. Chlorinated solvents were also detected on site and in the groundwater. For further toxicological information see section 7 of this report.

SECTION 2

2.0 THE SITE

2.1 Location

The facility is located along Pennsylvania State Route 54 in Montour County, Pennsylvania. Interstate 80 is approximately 1/2 mile north of the site and the city of Danville, Pennsylvania is 3 miles south of the site. The immediate properties, adjacent to the site, are farmlands to the north and west, a woodlot to the south, and PA 54 to the east. At the intersection of PA 54 and I-80 are a Sheraton Hotel, 3 gas stations, and a McDonald's restaurant.

2.2 Site Layout

Domino Salvage/Warehouse \$1 site is currently inactive. It occupies approximately 20 acres, approximately 5 acres of which contain piles of fluff. The site consists of 3 mounds of processed and unprocessed fluff, 1 pile of "carbon black", 4 impoundments, and an area of contaminated soils. Three partially submerged, 500 to 1,000 gallon tanks were in the southern "tank lagoon" impoundment.

2.3 Ownership History

State records indicate that the current owner of the site is a limited partnership that exists between Warehouse 81 and Domino Salvage. Michael G. Sabia, Jr., is the proprietor for the partnership. This partnership has owned the property since January 1984. From May 1972 to January 1984, the Philadelphia National Bank had control of the property. According to PA DER records, Mr. Allan Levan of Doylestown, Pennsylvania, proprietor of M.W. Manufacturing Corporation, owned the property from May 26, 1969 to May 1972.

2.4 Site Use History

Excerpts from the Dunn Geoscience report, prepared for the site owner and located in PA DER Region IV files, was used to formulate the following site use history. The Warehouse 31 plant was engaged in the secondary recovery of copper from piles of finely divided metal wire scraps known as "fluff." The fluff piles were generated by the mechanical recovery process of the now bankrupt M.W. Manufacturing Corporation. According to the Dunn Report, M.W. Manufacturing used chlorinated solvents in their chemical recovery process which caused organic contamination in local groundwaters. The Dunn report also states that the only activities conducted by the Warehouse 81 partnership have been mechanical recovery processes. Information regarding solvent storage and disposal is unavailable. See appendix F for suspected groundwater contamination plumes that were formed by sampling conducted by Dunn Geoscience.

2.5 Permit and Regulatory Action History

The following list of violations against the various owners of the Domino Salvage/Warehouse 81 site has been compiled in chronological order by the PA DER Region IV:

December 1970	Cited for copper ions in outfall discharge.							
April 8, 1971	Consent Decree for lack of fluff cover, oil							
	discharge, and improper storage of drums							
	containing industrial waste water.							
May 13, 1971	Permit for extender aeration.							
August 10, 1971	Cited for oil in outfall discharge.							
October 6, 1971	Permit granted for industrial waste discharge.							
December 2, 1971	Violation of Clean Streams Law, PA DER							
	detected sewage in creek.							
December 14, 1971	Ordered to correct previous violations by PA							
	DER.							
March 17, 1972	Letter from owner to PA DER stating items in							
·	Consent Decree have been corrected.							

Site Name: <u>Domino Salvage</u> TDD No.: <u>F3-8311-12</u>

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May 1972	M.W. Manufacturing filed Chapter 11, Philadelphia National Bank (PNB) acquired the
August 1972	PA DER memo to "strike force," requesting investigation of pooled industrial waste, fluff storage, and off-site discharge.
November 1972	Order to PNB to remove fluff and contaminated water.
May 24, 1973	Disclaimer from Nassau Smelting and Refining Company to PA DER regarding fluff material.
September 12, 1981	A joint PA DER Bureau of Water Quality Management and Solid Waste Division sampling of the site.
February 19, 1982	Initial inspection by Solid Waste Division.
April 13, 1982	PA DER Solid Waste Management sampled the aforementioned site.
May 6, 1982	PA DER responded to report of an on-site fire at the recovery building. Samples were taken of fluff piles and tested for asbestos. Results were negative.
September 3, 1982	The original Consent Order and Agreement were forwarded to Mr. Sabia by PA DER.
September 22, 1982	PA DER held a meeting with Mr. Sabia, Mr. Richard Hammond (site operator), and Mr. Jeffrey Peffer (Dunn Geoscience - site consultant). PA DER provided an additional 24- month extension to a 36-month time schedule proposed in the Consent Order. Extension granted in order to find a market for the resale of the processed plastic.
November 1, 1982	On-site sampling conducted by Dunn Geoscience.
February 1, 1983	Initial results from November 1982 sampling forwarded to PA DER.

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March 17, 1983	Meeting at PA DER-Williamsport to discuss					
	proposal methods for waste residual from the					
	previous processing operations.					
February 14, 1984	FIT III conducted joint site investigation with PA					
	DER's Solid Waste Division Region IV.					

2.6 Remedial Action To Date

According to PA DER files, only small amounts of material have been removed from the site. Records indicate that most of the waste products have been buried on site. FIT III observed several above-ground and partially buried open-top drums that contained fluff material. The PA DER indicated that the drumming of the fluff was an attempt to contain the material when the recycling process first began. Dunn Geoscience has developed groundwater contamination plume maps which are included in appendix C. ·

SECTION 3

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3.0 ENVIRONMENTAL SETTING

3.1 Water Supply

According to a United States Geological Survey (U.S.G.S) Topographic Map, there are approximately 400 homes using groundwater as their potable water source within a 3-mile radius of the site. Commercial establishments at the intersection of I-80 and State Route 54 also rely on groundwater. This count does not include any homes south of Montour Ridge, as homes located south of the ridge are supplied by the Danville Water Department. The city of Danville's water intake is located approximately 3-1/2 river miles on the Susquehanna from the Domino Salvage/Warehouse 81 site. According to the PA DER and FIT III samplings, the Artly well, located on site, has been contaminated with various organic and inorganic contaminants. On-site monitoring wells also revealed similar contaminants. The February 15, 1984 FIT III sampling of nearby off-site water wells did not reveal any organic and inorganic contaminants.

3.2 Surface Waters

FIT III personnel observed a drainage ditch along the northern edge of the site draining into the Mauses Creek. The Mauses Creek then drains into the Mahoning Creek and eventually into the North Branch of the Susquehanna River. Sampling conducted by FIT III on February 15, 1984 appears to indicate that lead and copper are migrating from the site via the drainage ditch. Downstream samples from the confluence of the ditch and the Mauses Creek indicate higher levels of organic and inorganic compounds than did the upstream samples (see sample results in section 6.0).

3.3 Geology and Soils

The site lies within the boundary of the Ridge and Valley Province. The bedrock geology at the site consists of the Wills Creek Formation (Cayuga Group - Upper Silivian) which contains medium-light gray calcarious shale and siltstone in the lower part with interbedded grayish-red calcarious siltstone. The formation also contains interbeds of limestone, solidified siltstone, and dolomite. The thickness of the Wills Creek Formation is approximately 650 to 820 feet. The site is also bordered by the Heiser-Tonoloway units, which range in depth from 33 to 699 feet. The aforementioned information was obtained from "Groundwater Resources of the Upper Susquehanna River Basin" (Taylor, Larry, Pennsylvania Geologic Survey, 1984, Report 58). According to Mr. Denny Fritz (PA DER Region IV Geologist), the Wills Creek Formation is interconnected via local fracture systems at depths of up to 250 feet.

According to the "Bureau of Topography and Geologic Survey, PA DER Groundwater Information System" and the "General Soils Map of Pennsylvania," the majority of the native soils beneath the Domino Salvage site consist of the Harlton-Berks Watson Association. The soils range from a 0 to 30 percent slope. Due to the lack of precise information, no remarks can be made regarding specific soil characteristics beneath the site.

3.4 Groundwaters

The seasonal high water table beneath the site ranges from 1/2 to 1-1/2 feet, according to "Groundwater in Northeastern Pennsylvania" (Leham, 1937) and the Danville U.S. Department of Agriculture Soil Conservation Service. On-site monitoring wells indicate 8 to 18 feet to the water table. Wells in the Wills Creek Formation range in depth from 40 to 328 feet. The groundwater flow is estimated to be in an east to southeast direction, towards Mauser and Mahoning Creeks. Both interconnected aquifers are used by the local populations (within 3 miles of the site) as their sole potable water source. The Dunn Geoscience Report indicates a presence of organic and inorganic groundwater contamination plumes. This report is located in PA DER Region IV files. Excerpts are located in appendix C of this report. (Additional geohydrogeological information has been requested from PA DER and the site consultant by FIT III.)

3.5 Climate and Meteorology

Central Pennsylvania is generally considered to have a humid continental type climate. Since the site is located within the Ridge and Valley provinces, the air movement, temperature extremes, and precipitation patterns are similar to a mountain-type climate. Montour County gets approximately 48 inches of precipitation per year. The estimated 1 year, 24-hour rainfall is 2.6 inches (Rainfall Frequency Atlas of the United States, U.S.G.P.O. 1963).

3.6 Land Use

Domino Salvage/Warehouse 81 is currently inactive and will remain so until action can be decided upon regarding proper closure plans for the site. North of the site is a Pennsylvania Department of Transportation storage yard. Proceeding further north is a McDonald's restaurant, 3 gas stations, and a Sheraton Hotel. West and south of the site are farm properties that are being used for agriculture. East of the site is State Route 54 and the marshy wooded area created by the confluence of Mauser and Mahoning creeks.

3.7 Population Distribution

The 6-member Artly family lives on site. The Danville Head Start School (enrollment 83) is located approximately 125 yards north of the site. According to the U.S.G.S. Topographic Map, there are approximately 400 homes within a 3-mile radius of the site. Therefore, the total approximate, nontransient population within 3 miles is 2,420 individuals (400 x 3.8). Another notable feature within 1/4 mile of the site is the intersection of I-80 and State Route 54. At this point there is a Sheraton Hotel, a McDonald's restaurant, and 3 gas stations. Approximately 3 miles south of the site is the city of Danville, with an estimated population of 7,000 people.

3.8 Critical Environments

According to the Pennsylvania Clean Streams Act, Mahoning Creek (which Mauser Creek flows into) is classified as a trout stocked stream. Available background information does not reveal any other critical environments within 1 mile of the site. .

SECTION 4

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Site Name: Domino Salvage TDD No.: F3-8311-12

4.0 WASTE TYPES AND QUANTITIES

According to Gordon Harvey, Solid Waste Specialist for the PA DER in Williamsport, the fluff material deposited on site covers 5 acres. The average height of the fluff piles is 20 feet. Using these figures, the approximate total quantity of fluff is 4,356,000 cubic feet. Also on site are 4 lagoons, three 500 to 1,000 gallon tanks, a pile of "carbon black", an area of contaminated soils, several partially filled open-top drums (containing fluff), and documented groundwater contamination plumes. The types of wastes are lead, copper, and organic solvents, all of which were detected in all the aforementioned areas of contamination during FIT III's sampling on February 15, 1984.

SECTION 5

Site Name: Domino Salvage TDD No.: F3-8311-12

5.0 FIELD TRIP REPORT

5.1 Summary

On February 15, 1984, FIT III members Michael Nalipinski, Edmund Reardon, Arthur Weber, and Laura Boornazian conducted a joint site inspection at the Domino Salvage/Warehouse 31 site. The site inspection was conducted with assistance from a 7-member team from the PA DER, Region IV.

Samples were obtained from 9 groundwater sample points, 7 surface water sample points, 6 waste samples, 5 runoff areas, and 4 stained soils. A total of 31 samples were taken.

Access to the site was obtained by PA DER for FIT III from Mr. Sabia. Jeffrey Peffer of Nassaux Hemsley represented the current owner during the sampling.

The weather during the site inspection was approximately 45°F, with continuous rain.

5.2 Persons Contacted

5.2.1 Prior to Field Trip

Richard Bittle - Solid Waste Manager Gordon Harvey - Solid Waste Specialist PA DER 200 Pine Street Williamsport, PA 17701 (717) 327-3653

5.2.2 At The Site

Frank Bertovich - Regional Solid Waste Operations Supervisor Richard Bittle - Regional Solid Waste Manager Gordon Harvey - Solid Waste Specialist John Hamilton - Regional Solid Waste Engineer William Hazar - Soil Scientist Kenneth Caputo - Hazardous Waste Coordinator Denny Fritz - Regional Geologist PA DER 200 Pine Street Williamsport, PA 17701 (717) 327-3652

Site Name: Domino Salvage TDD No.: F3-8311-12

Continue - 5.2.2 At The Site

Jeffrey Peffer, P.E. Nassaux-Hemsley, Inc. 56 North Second Street Chambersburg, PA (717) 263-1409

5.2.3 After Site Visit

Jeffrey Peffer, P.E. Nassaux-Hemsley, Inc. 56 North Second Street Chambersburg, PA (717) 263-1409

Gordon Harvey Denny Fritz PA DER 200 Pine Street Williamsport, PA 17701 (717) 327-3653

Thomas Graham Danville Water Department (717) 275-1070 Yener Soylemez U.S. EPA - Region III Ninth and Chestnut Streets Philadelphia, PA 19106 (215) 597-0804

Karen De Walt Water Supply Branch U.S. EPA - Region III Ninth and Chestnut Streets Philadelphia, PA 19106 (215) 597-2702

George Venarchick Danville School District (717) 275-2192

8311-12	789
F 3:6	- Hg
TDD Number	EPA Number

5.3 SAMPLE LOG

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Site Name Dom: NO SALVASE

1	RAFFIC REPO	& TS	SAMPLING LOCATION	PHASE	SAMPLE DESCRIPTION	DATE	TIME	Ha	COMMENTS/OBSERVATIONS	LABORATORY
Organic	Inorganic	High Hazard								
1885	mc 3747		Water Sapely Ou She	AQ		2-15-84	1145	7,55		Chanteeh
988/7	mc 3748		NEW Well	AQ			1300	6.36		Chemberh Chemberh
2,83%	mc 3749		Middle Tank	sed)	Sco-200 gul 14 solids		0201		MEd. CONC.	chenteen Chenteen
8 224	mc3750		Right Tauk	5EJ	11.7 x 12 056 - 000		1030		MEJ. CONC.	chentech
4889	1548 24		LEft Tauk	sed	Approx 1000 cal / - fr. 11		Seul		MEd. CONC	chembern chembern
4890	mc3752		Cope Huuse Well	AQ			5121	8.01		chenken
1891	mc 3753		BARN WEll	AQ			1230	6.63		chentech
4892	mc 3754		Blank	Ą.Я			1330			chemberh
1692	mc3755		B/ANK	SEJ			1330			chentech
<i>ፈዲክ</i>	me 3740		West Unprucesses) P.IC	bžd			loas		composite	chem chem
8£ %	mc 3741		Wheekouse P.IC	<i>Sed</i>			1055		composite	chem Hazel
9434	mc 3742		VVE∥ #7	AQ			iyıs	6.99		chem EAL
0891	me 3743		T # 112M	AQ			Shil	7.30		CHEMEN
196	mc 3744		WEII #Y	AQ			1100	8.30		ChEMERL
4863	Mc 3745		GREEN P.IE	Sec)	•		bss		composite	chém Chém
hush	mc 3756	0	TANK LAJOON	40			كعدا		SREELISH, BROWN	Chem EAL
4815	me 2966	00	MiJule P. 16	(Jes l			1030		composite	chem Hazel
4823	£365 m	02	Pallet Sed	P=S			كلادا			Chern Hacel
4293	mc 3732	1	Mauses Cak at izeidif	AQ			bid	8.19		chem FAL
47 A	mc 3733		Mauses Cek at Bridse	5¢d)			1010			Chém HAZEL

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5.3 SAMPLE LOG

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Site Name Domino Soluty E

LABORATORY	hem EAL	(kem insel	hemer	hen	chen ral	The Free States	chem .	chem #1	cheme #1	Chem HAZE	-hem HAZEL	chemer	chemetic							
COMMENTS/OBSERVATIONS	_2		form at sample pt. L		~		composite (~		composite		,								
F.	3.45		6.51		7.38			6.77	6.45			22.6	6.77			\int	1			\int
TIME	1040	040	orll	1130	1310	0181	1045	17 2	କ୍ଷୁ	त्रर	Ras	250	200			Ţ				T
DATE																T				
SAMPLE DESCRIPTION					•												•			
PHASE	AQ	SEJ	AQ	SE)	AQ	SE)	Sed	ÅQ	AQ	SEd	Se	49	49							
SAMPLING LOCATION	MAUSES Lak Behw Could	Mauses Calk Bolow Could	Union of Difek	Union of Ditch	Marses Cale Neva Gale	Mauses Cak NEAR Gate	CARPON Pile	Pallet Laycon	By Lagorn	B: LAgan	TANK LASON	School WEll	FARM Haust							
TS High Hazard															-					
AFFIC REPOR Inorganic I	~ 3734	mc 3735	~3736	23737	nc 3738	د3739	nc3746	248	19% Lun	mc 3781	nc 3780	me 3779	m 3800		† (0	05	2	
TR Organic	:4245 n	9524	1 62th .	1 85242	v 66742	4360	1 1884 2	4834	1835	- 4849	5487 L	4836	1485		+				+	

5.4 Site Observations

o No HNU or mini-radiation alert levels were detected above background levels. An organic odor was detected during tank sampling so respiratory protection was elevated to Level C.

	Total Depth		Reference Elevation	Depth to SWL	Elevation o
Location	<u>in Feet</u>	Reference Point	in Feet	in Feet	SWL in Fee
M W 1	23	top of casing	522.06	18.00	504.06
MW2	40	top of casing	508.67	11.10	497.57
MW3	N/A	top of casing	507.59	8.58	499.01
M₩4	N/A	top of casing	507.54	9.04	498.50
M₩5	N/A	N/A	N/A	N/A	N/A
M₩6	N/A	top of casing	512.23	pumped	not static
MW7	73	top of cap	507.34	12.08	495.22
M W 8	45	top of cap	503.35	10.44	492.91
M W 9	40	top of cap	501.64	10.58	491.06
MW10	N/A	water surface	491.24	0	491.74
PennDot	N/A	concrete floor	513.13	16.13	497.00
Dug House	N/A	concrete rim	507.16	18.25	488.91
Drilled	N/A	top of cap	506.24	N/A	N/A
House					۰ ۱
Dug Barn	N/A	concrete rim	515.47	25.58	489.89
MW1	23	top of casing	N/A	13.00	N/A
Dug House	22	l ft. stick up	N/A	11.00	N/A
Well					
Dug Barn					
Well	21	l ft. stick up	N/A	12.00	N/A
PennDot	73	2 ft. stick up	N/A	12.00	N/A
Well					

• The following is a chart regarding groundwater data from PA DER files:

o Field measurements by FIT III:

Sample Location	Specific Conductance (MG)	<u>Temperature (OC)</u>
Well No. 4	60	12
Confluence	350	6
Bridge	60	7
Drainage Ditch	75	6
Cope Well	150	9
On-site Water Well	215	8
Well No. 1	310	9
Big Lagoon	100	5
Farmhouse	250	7
Barn Well	85	7
New Well	2,200	9
Pallett Lagoon	50	6
Ditch as leaves site	90	· 7
School Well	330	10
Well No. 7	300	9
Tank Lagoon	(Sample not conducive to field	i measurements)

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Photo 2 - John Hamilton (DER) sampling middle pile.

Pornino Silving E \mathcal{D} RI PIZ 8311-12 15 Fob '84

WASTE pile NEAR WAREhousE

My Ralpento for FRANK BEsterich

1045

Domino SalugE Ē) 83/1-12 15 Feb 84

Ibon Hamilton (DER) Sampling middle pile

1025

FRitz K BERbuich



RIPI Domino SpleasE Ź 8311-12 15 Feb 84

Mike Nalipinski sampling left Tank

MJ. Nuleinh Frank BERbich

1025

Penino Saluze (J) R3P7 8311-12 15Feb 84

Mike Natipinski sampling middle Tank

M.J. Halipiniki for FRANK BERtouich

1020



Photo 5 - Michael Nalipinski sampling right tank.



Photo 6 - Edmund Reardon and DER sampling MW 4.

Pomino SalungiE RSPH 3 83[1-12 15 Feb 84 MIKE Nalipiaski sampling Right TANK

Ę,

M.J. Nulipinihof FRANK BERTouich

1630

Domine Salutse 8311-12 @ R3P8 15 Feb 84

Ed REARdon and DER sampling M. W #4

M.J. Ralpink for [[00 FRANK BERTONICH



– Photo 7 - Michael Nalipinski sampling – carbon pile.



- Photo 8 -- Pallet Lagoon.

Pomino SALLASE $(\bar{})$ R3P12 8311-12 15 Feb '84

MikE Nalipinski sampling Carehow pile

M.J. Nulpink for FRANK BERTOVICH 1045

Domino SALLISE (8)8311-12 15 Feb 84

Pallet Lycons

M.J. Nalpinski

1245 .000032

RIPLY



Photo 9 - Drainage ditch outside fence line.



Photo 10 - Union of drainage ditcres.

Ð RIP9 Domino Salusce 8341-12 15 Feb 84

DRAINAge bitch atside Ferre luce F. B 1984

M Malipinto M.J NALprusk. 1310

Domino SALUBE (D) RI PRO 8311-12 15 Feb 84

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UNION of DRHINAGE Ditches

M.J. Nalpinski



Photo 11 - Arthur Weber sampling
Mauses Creek at bridge.



Photo 12 - Arthur Weber sampling Mauses Creek below confluence.

Pomino SalutsE 6 R215 8311-12 15 Feb '84

Art WEBER SAMPLING MAUSES GREEKAt BRidgE .

M.J. Nulipinita Richard BiHlE

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Pomino SALUGE RZPZ (12)8311-12 15 Feb .84

Art WEBER sampling Manges CREEK Below Confluence.

M.J. Nalpinh Richard Bittle 1040


120mi SAlvas E 8311-12 I erial photo taken by Pa DER Water Quality Wilhumport Regin II ۲, NA N fan muner of 1984 Branc **00003**8

₽EPA	POT	ENTIAL HAZAR	RDOUS	WASTE SITE		I. IDENTIF	ICATION	
SEPA		CITE INCOEC				01 67497	A CITE MANAGES	
	040T4 01T			EPORT		PA	789	
	PART 1 - 511	ELUCATION AN		CIION INFORM	ATION			
II. SITE NAME AND LOCA	ITION		02 STRE	ET, ROUTE NO., OR S	PECIFIC LOCATION	IDENTIFIER		
Domino Salvage	/Warehouse 81		Sta	te Route 5	4 & I-80			
D3 CITY			04 STAT	E 05 ZIP CODE	06 COUNTY		07COUNTY CODE	DE CON
Valley lownshi	p		PA	17821	Monto	Jr	093	11
41° 59 30". N	_76° 38 26". E	SA. PRIVATE		EDERAL		D COUNTY G. UNKNOW		AL
II. INSPECTION INFORM	ATION 02 SITE STATUS	03 YEARS OF OPERA	TION				<u> </u>	
2 15 84		appu		1981 1970	NR	UNKNOWN		
AGENCY PERFORMING INSP		Corp.				PACTOR		
C E. STATE C F. STATE		Name of lim))THER			(Name of Frm.	
S CHIEF INSPECTOR	{	06 TITLE			GT ORGANIZ	ATION	OB TELEPHON	E NO
Michael Nalipi	nski	Environ	Spe	cialist	NUS C	orp.	215 68	7-95
9 OTHER INSPECTORS	······································	10 TITLE			11 ORGANIZ	ATION	12 TELEPHONE	ENO
Laura Boornazia	<u>an</u>	Air Pol	lutio	n Spec.	NUS CO	orp.	215' 687	<u>7-951</u>
Edmund Reardon		Environ	. Eng	ineer	NUS C	orp.	215' 687	7-951
Arthur Weber		Environ	hnician	NUS CO	orp.	215) 687	7-951	
Gordon Harvey		Solid Wa	aste :	Specialist	PA DEI	र	717)-327	7-365
John Hamilton		Reg. Sol	lid Wa	aste Spec.	PA DEF	र	917) 327	7-365
3 SITE REPRESENTATIVES INT	ERVIEWED	14 TITLE		15ADDRESS			16 TELEPHON	ENO
William Hanzar		Soil Sci	ien.	PA	DER		717, 327	<u>'-365</u>
Ken Caputo		Haz. Was	ste C	oord. PA	DER		Ø17) 327	7-365
Denny Fritz		Geologis	st	ΡΑ	DER		717) 327	7-365
Frank Bertovich	1	Reg. So Operatio	nd W	up. PA	DER		717)327	7-365
D		Reg. So	id W	aste				
Richard Bittle		Manager			<u>717'327</u>	-365		
Jeff Peffer P.F	Site Rep.			56 North 2	emsley, in 2nd Street	10.	717)263	3-140
				Chambersbu	urgh, PA	-	1	
7 ACCESS GAINED BY	18 TIME OF INSPECTION	19 WEATHER CON	OITIONS					
(Check and)	9+00 AM	1505	1 waż-		<i>.</i>			
		1 40 F ANC	rdll	iy (all da)	7)		•	
11 CONTACT		02 OF (Agency/Orga	nzenen)			<u> </u>	03 TELEPHONE	NO
Richard Bittle		PA DER F	Reaion	ı IV			'717' 327	7-365
24 PERSON RESPONSIBLE FOR	SITE INSPECTION FORM	OS AGENCY	06 05	GANIZATION	07 TELEPHON	E NO.	08 DATE	
Manhand Nadaadu	icki	FIT TIT		NUS	(215) 6	87-9510	2 15	<u>84</u>

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	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCID	1. IDENTIFICATION 01 STATE 02 SITE NUMBER PA 789
I. HAZARDOUS COND	ITIONS AND INCIDENTS	
01 B A. GROUNDWATE 03 POPULATION POTEM Test resul on-site mo	ER CONTAMINATIONUNKNOWN 02 BOBSERVED (DATE2/15/84 NTIALLY AFFECTED:UNKNOWN 04 NARRATIVE DESCRIPTION Its from FIT III's February 15, 1984 sampling, onitoring wells.) POTENTIAL ALLEGE , showed contaminated
	-	
01 TO B. SURFACE WAT	ER CONTAMINATION 02 00 OBSERVED (DATE. 2/15/84) CI POTENTIAL & ALLEGER
Test resu surface wa	lts from FIT III's February 15, 1984 sampling, aters.	, showed contaminated
01 ST C. CONTAMINATI	ON OF AIR 02 21 OBSERVED (DATE 2/15/84	
Odors were potential	e detected by FIT III on-site personnel. These dust transport could cause airborne contamination	se odors combined with ation.
01 2 D. FIRE/EXPLOSIN	VE CONDITIONS 02 ST OBSERVED (DATE 5/6/82	
The PA DEN the fire w negative.	R responded to a fire at the Domino Salvage Re was extinguished, the PA DER sampled for asbes	ecovery Building. Afte stos. The results were
01 25 E. DIRECT CONTA 03 POPULATION POTEN Potential contaminat	ACT 02 # OBSERVED (DATE	_) ℜ POTENTIAL □ALLEGE y at the site. Off-si
01 ST F. CONTAMINATE	ON OF SOIL APProx. 7 02 & OBSERVED (DATE 2/15/84	
The waste off-site upon FIT	(fluff material) has mixed with on-site soils drainage way sediments show inorganic and orga III's February 15, 1984 sampling results.	s. The fluff material anic contamination base
01 BTG. DRINKING WAT	TER CONTAMINATION APPTOX. 602 DOBSERVED (DATE: 2/15/84	
The Artly as their sampling.	family, which lives in the warehouse, use the sole water source. The contamination was doc	e contaminated groundw umented by PA DER's
01 H. WORKER EXP 03 WORKERS POTENT	OSURE/INJURY 02 □ OBSERVED (DATE:	
N/A		
01 I. POPULATION ED 03 POPULATION POTEI	XPOSURE/INJURY 02 8 OBSERVED (DATE: 2/15/84 NTIALLY AFFECTED: ADDCOX. 6 04 NARRATIVE DESCRIPTION	.)
The Artly	family is consuming contaminated water.	

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II. PERMIT INFORMATION None discovered during FIT UIL review of DA DEP.files II. PERMIT INFORMATION None discovered during FIT UIL review of DA DEP.files II. New result Discovered during FIT UIL review of DA DEP.files II. New result Discovered during FIT UIL review of DA DEP.files II. New result Discovered during FIT UIL review of DA DEP.files II. New result Discovered during FIT UIL review of DA DEP.files II. New result Discovered during FIT UIL review of DA DEP.files II. New result Discovered during FIT UIL review of DA DEP.files II. New result Discovered during FIT UIL review of DA DEP.files II. New result Discovered during FIT UIL review of DA DEP.files II. New result Discovered during FIT UIL review of DA DEP.files II. New result Discovered during FIT UIL review of DA DEP.files II. New result Discovered during FIT UIL review of DA DEP.files II. New result Discovered during FIT UIL review of DA DEP.files II. New result Discovered during FIT UIL review of DA DEP.files II. New result Discovered during EIT UIL review of DA DEP.files II. OTHER result Discovered during EIT UIL review of DA DEP.files II. New result Ditter	NTIFICATION
IL PERMIT INFORMATION None discovered during FIT III review of PA DEP files IN THE OFFERANT ISSUED 02 PERMIT NUMBER 03 DATE SSUED 04 EXPRATION DATE 05 COMMENTS ID A. MPOES ID A. MPOES ID C. AIR ID A. ROCA ID C. AIR ID A. ROCA ID C. AIR ID A. ROCA ID C. AIR ID C. AIR ID C. AIR ID C. AIR (ARCH INFORMATION DATE OSCINCTION DATE OSCINC	/09
DT PERCEPTION DEPENDENT NUMBER DEPENDENT	
CONTRICT Contained and approprint CA MPDES CA MPDES CA Contained and approprint CA MEDICAL SCOREDINSA ADDITOX CA MEDICAL MEDICAL MEDICAL CA MEDERATION CA ADDITOX CA MEDICAL CA MEDICAL CA MEDICAL MEDICAL MEDICAL CA MEDICAL CA ADDITOX CA ADDITOX CA ADECOMERCENCE	<u>.</u>
□ A. MPOES □ □ □ □ B. UKC □ □ □ □ C. AM □ □ □ □ D. ACRAA □ □ □ □ C. AM □ □ □ □ C. AM □ □ □ □ C. ARA □ □ □ □ C. ARCA INTERNETION □ □ □ □ SUPARCE INFOLMENT □ □ □ □ □ D. TAK, ABOVE GROUND □	
B. WC Image: Construct of the server of	
C.C. AIR C.C. AIR C.D. RCRA C.C. RATE C.E. RCRA INTERIM STATUS C.C. RATE C.E. RCRA INTERIM STATUS C.C. RATE C.A. ADDEDAL C.C. RATE C.M. LOCAL C.C. RATE C.C. RATE C. RATE C.C. RATE C.C. RATE	
D. R.CRA DE. RCRA INTERIM STATUS DE. RCRA INTERIM STATUS DE. RCRA INTERIM STATUS D. F. SPCC PLAN DE. RCRA INTERIM STATUS D. H. LOCAL (Lower) DE. NOCK (Lower) D. H. LOCAL (Lower) DE. NOPE D. H. LOCAL (Lower) DE. NOPE D. H. LOCAL (Lower) DE. NOPE D. THER (Lower) DE. NOPE B. F. LOCE (Lower) DE. NOPE B. PLES DEDTOX. 124_000 CL. y/5 su UNGROUND NUCCTION B. S. SURFACE INFOUNDMENT BDDTOX. 50 dTLIMS. B. DELS DEDTOX. 50 dTLIMS. B. DELS (COUND ADDITION - COUNT - CO	
DE. BOCALNTERM STATUS DF. BPCCPLAN D. G. STATE Second D. LOCAL (Second) D. DOLES (DEPOSAL (Chart strue serve) D. DOLES (DEPOSAL (Chart serve) <	
□F. SPCC PLAN □G. \$TATE_{downy} □G. \$TATE_{downy} □ □I. OTHER_{downy} □ □I. STED DESCRIPTION □ 1STORAGE(DSPOSAL (Down and weaky) 02 AMOUNT 0STORAGE(DSPOSAL (Down and weaky) 02 AMOUNT 0STORAGE(DSPOSAL (Down and weaky) 02 AMOUNT 0STORAGE(DSPOSAL (Down and weak) 02 AMOUNT 0STORAGE (DSPOSAL (DOWN) 02 DPTOX 20 ,0000 - CU + ft 0STORAGE (DSPOSAL (DOWN) 02 DPTOX 20 ,0000 - CU + ft 0STORAGE (DSPOSAL (DOWN) 02 DPTOX 20 ,0000	
C. STATE General Contrained and the served of the drug of the served of the drug	
□ I. OTHER (Second) □ I. OTHER (Second) □ X. NONE X. NONE I. STTE DESCRIPTION 1 STORAGE/OSPOSAL (Create and early) 0 2 AMOUNT 0 3 UNIT OF MEASURE 0 4 TREATMENT (Create and early) 0 2 AMOUNT 0 5 DE JULES 0 1 DDPOX. 124,000 CL, VI Sp. UNDERGROUND INJECTION 0 2 COMMENT 0 2 DAVING, ABOVE GROUND approx. 50 0 1 DTAIK, ABOVE GROUND approx. 50,000 cut ft □ 5 DAVING ABOVE GROUND approx. 50,000 cut ft □ 5 NANK, ABOVE GROUND approx. 50,000 cut ft □ 6 NOLOBIAL W F. LANFILL □ 1. OTHER SELOW GROUND 0 1. OTHER SECONERY □ 1. OTHER (Second) 0 1. OTHER SECONERY □ 1. OTHER (Second) □ 2. AADEQUATE, SECURE (X) 0 2. ONDERGROUND (Second) □ 1. OTHER (Second)	
C1. OTHER (General) II. SITE DESCRIPTION II. SITE DESCRIPTION II. SITE DESCRIPTION SE A. SURFACE IMPOUNDMENT 20 DPTOX. 21 DTARK.ABOVE GROUND 20 DPTOX. 21 DPTOX. 22 DPTOX. 20 DPTOX. 21 DPTOX. 22 DPTOX. 20 DPTOX. 20 DPTOX. 21 DPTOX. 22 DPTOX. 21 D. NAPPAM 22 GLANDFALL 22 GONAPPAM 22 DPTOX. 22 DOTAPPAM 22 DOTAPPAM 22 DOTAPPAM	
XJ. NONE I. SITE DESCRIPTION 02 AMOUNT 03 UNIT OF MEASURE 04 TREATMENT (Concert of mergeny) 03 CANCOUNT 03 UNIT OF MEASURE 04 TREATMENT (Concert of mergeny) 03 CANCOUNT 03 CANCOUNT 03 UNIT OF MEASURE 04 TREATMENT (Concert of mergeny) 03 CANCOUNT 04 CANCO	
IL SITE DESCRIPTION 1 STORAGE/OSPOSAL (Create at markadery) 02 AMOUNT 03 UNIT OF MEASURE 04 TREATMENT (Create at markadery) 03 C 1 STORAGE/OSPOSAL (Create at markadery) 02 AMOUNT 03 UNIT OF MEASURE 04 TREATMENT (Create at markadery) 03 C 1 STORAGE/OSPOSAL (Create at markadery) 02 AMOUNT 03 UNIT OF MEASURE 04 TREATMENT (Create at markadery) 03 C 1 STORAGE/OSPOSAL (Create at markadery) 02 AMOUNT 03 UNIT OF MEASURE 04 TREATMENT (Create at markadery) 03 C 1 STORAGE/OSPOSAL (Create at markadery) 02 AMOUNT 03 UNIT OF MEASURE 04 TREATMENT (Create at markadery) 03 C 1 STORAGE/OSPOSAL (Create at markadery) 02 AMOUND 03 UNIT OF MEASURE 04 TREATMENT (Create at markadery) 06 A 1 CONTAINT 1 CONTAINT 03 UNIT of markadery 05 C 06 A 07 C	
1 STORAGE/DISPOSAL (Create at new carry) 02 AMOUNT 03 UNIT 04 UNIT 04 DELASURE aDDTOX. 6 aCTCS aDDTOX. 124,000 CU. yd 50 UNDERDATION BE D. PAINS, ABOVE GROUND aDDTOX. 50 dtrums E C. DHAINS, ABOVE GROUND aDDTOX. 50 dtrums E C. TANK, ABOVE GROUND aDDTOX. 50 dtrums BE D. TANK, ABOVE GROUND aDDTOX. 50 dtrums BE C. TANK, BELOW GROUND BE C. T	
B A. SURFACE IMPOUNDMENT aDDTOX. 5 aCTCS. A NCENERATION X B B. PLES aDDTOX. 124,000 CU. yd 5 B. NOEDRAROUND INJECTION X B C. DRUMS, ABOVE GROUND aDDTOX. 5,0 drums. X: C. CHEMICAL/PHYSICAL W B D. TANK, ABOVE GROUND approx. 6,000 gals. D. BIOLOGICAL W C. LANDFARM	OTHER
28.6.PUES	
accessmellity approx. 5,000_gals, approx. 6,000_gals, approx. 20,000_cu-ft b. BKLOGKAL w c. LANDFALL approx. 20,000_cu-ft c. WASTE CALPHOCESSING c. WASTE CALPHOCESSING c. W d. LANDFARM	
E TANK, BELOW GROUND Approx. 20,000 cu ft B. WASTE OLPROCESSING F. LANDFILL G. LANDFARM	varehouse
BY F. LANDFILL Image: Constant of the second of the se	AREA OF SITE
G. LANDFARM	
□ H. OPEN DUMP □.OTHER □.Sourcery COMMENTS The site consists of fluff piles, above-ground tanks, surface and lagoons, and buried solids. These materials were generated during and chemical recycling process of copper wire. CONTAINMENT CONTAINME	approx. 20,
I. OTHER	
COMMENTS The site consists of fluff piles, above-ground tanks, surface and lagoons, and buried solids. These materials were generated during and chemical recycling process of copper wire. CONTAINMENT CONTAINM	
CONTAINMENT CONTAINMENT OF WASTES (Check one) A. ADEQUATE, SECURE X B. MODERATE C. INADEQUATE, POOR D. INSECURE, UN DESCRIPTION OF DRUMS, DIKING, UNERS. BARMERS, ETC. Several of the drums were open and others were buried or partially observed drums appeared to contain cutivated charcoal or carbon mi fluff material. According to PA DER Region IV records, none of the lined. ACCESSIBILITY 01 WASTE EASILY ACCESSIBLE: DYES XD NO 02 COMMENTS The area is secured by a fence with a locked gate. However, some material was observed to be washed off site by the rain during the CONTAINMENT DESCRIPTION OF DESCRIP	the physica
CONTAINMENT OF WASTES (Check one) A ADEQUATE, SECURE X B. MODERATE C. NADEQUATE, POOR D. INSECURE, UN Description of DRUMS, DWING, LINERS, BARMERS, ETC. Several of the drums were open and others were buried or partially observed drums appeared to contain cutivated charcoal or carbon mi fluff material. According to PA DER Region IV records, none of the lined. ACCESSIBILITY Of WASTE EASLY ACCESSIBLE: D YES XD NO O2 COMMENTS The area is secured by a fence with a locked gate. However, some material was observed to be washed off site by the rain during the	
 DESCRIPTION OF DRUMS, DIKING, LINERS, BARMERS, ETC. Several of the drums were open and others were buried or partially observed drums appeared to contain cutivated charcoal or carbon mi fluff material. According to PA DER Region IV records, none of th lined. ACCESSIBILITY OI WASTE EASLY ACCESSIBLE: DIYES XD NO 02 COMMENTS	NSOUND, DANGEROUS
Several of the drums were open and others were buried or partially observed drums appeared to contain cutivated charcoal or carbon mi fluff material. According to PA DER Region IV records, none of th lined. ACCESSHBILITY O1 WASTE EASLY ACCESSIBLE: DYES XD NO O2 COMMENTS The area is secured by a fence with a locked gate. However, some material was observed to be washed off site by the rain during the	
ACCESSIBILITY OI WASTE EASLY ACCESSIBLE: I YES XI NO O2 COMMENTS The area is secured by a fence with a locked gate. However, some material was observed to be washed off site by the rain during the POPURATE OF INFORMATION of Site 1984	v buried. Th xed with Ne lagoons an
of WASTE EASLY ACCESSIBLE: IN YES XINO of COMMENTS The area is secured by a fence with a locked gate. However, some material was observed to be washed off site by the rain during the	
The area is secured by a fence with a locked gate. However, some material was observed to be washed off site by the rain during the	
LOURDER OF INFORMATION SILE, INSPECTION ON FEDEruary 15 1984	of the fluff FIT III sit
PA DER Region IV Files and NUS FIT III site inspection on February	15, 1984.

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	POTENTIAL MATA	BOOLS WASTE SITE	I. IDENTIFICATION
	SITE INSPEC	TION REPORT	01 STATE 02 SITE NUMBER
VERM	PART 5- WATER, DEMOGRAPH	IC, AND ENVIRONMENTAL DATA	PA /89
VI. ENVIRONMENTAL INFORMA	TION		
01 PERMEABILITY OF UNSATURATED ZO	DNE (Check one)	· · · · · · · · · · · · · · · · · · ·	
□ A. 10 ⁻⁶ - 10 ⁻¹	⁸ cm/sec CX8. 10-4 - 10-6 cm/sec □	C. 10 ⁻⁴ - 10 ⁻³ cm/sec D. GREATE	ER THAN 10 ⁻³ cm/sec
02 PERMEABILITY OF BEDROCK (Check o	ne)		
C A. MPERM (Less than 1	EABLE IX B. RELATIVELY IMPERMEABL 0 ⁻⁶ cm/sec) (10 ⁻⁴ - 10 ⁻⁶ cm/sec)	LE C. RELATIVELY PERMEABLE (10 ⁻² - 10 ⁻⁴ crivitec)	D. VERY PERMEABLE (Greater Hen 10 ⁻² cm sec)
03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	OS SOIL PH	
<u>> 25 (ft)</u>	O(n)	unknown	
OG NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	OB SLOPE DIRECTION OF SITE	SLOPE TERRAIN AVERAGE SLOPE
(in)	2.75(in)	<u> </u>	ly <u>1-5</u>
09 FLOOD POTENTIAL	10 N/A		
SITE IS IN YEAR FLO	ODPLAIN		
11 DISTANCE TO WETLANDS (5 acre minimi ESTUARINE	OTHER	12 DISTANCE TO CRITICAL HABITAT 101 onder N/A	gered apecies)
N/A (mit)	B N/A (mi)		N/A
13 LAND USE IN VICINITY			
	RESIDENTIAL AREAS: NATIO	NAL/STATE PARKS, AC	
COMMERCIAL/INDUSTRI	AL FORESTS, OR WILDUP		
A(mi)	в. <u>1/2</u>	(mi) c. <u>> 3</u>	(mi) D. <u>1/4</u> (mi)
14 DESCRIPTION OF SITE IN RELATION T	O SURROUNDING TOPOGRAPHY		
Domino Salvage approximately is 3 miles sou is farm land t the east. At stations, and	/Warehouse 81 is locate 1/2 mile north of the s th of the site. The imm o the south and west, a the intersection of PA a McDonald's restaurant	d along PA State Route ite and the city of Da mediate properties, ad wood lot is to the so 54 and I-80 is a Shera	e 54. I-80 is Inville, Pennsylvania, Ijacent to the site, Duth, and PA 54 is to Iton Hotel, 3 gas
		,	
	•		
THE STURIES OF HE URMA IIU	च - २७ल्व व्यवदागढ गणपाली0वर, 8.g , 8809 विद, 88798 848/98 6		
FIT III Site I	nspection of 2/15/84 an	d PA DER Region IV Fil	les.
	•		4
FPA FORM 2070-13/7-811			

CURRENT OWNER(S)										
1 NAME		02 D+8 NUMBER	OB NAME	1	09 D+8 NUMBER					
Michael G. Sabia	.Jr.		Warehouse 81 Lin	ited Part	archin					
STREET ADDRESS (P O. Box. AFD #, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O Box, AFD #, etc.)		11 SIC CODE					
Вох бб			Box 66							
5 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE					
Conshohocken	PA	19428	Conshohocken	ΡΔ	19428					
NAME		02 D+8 NUMBER	08 NAME		09 0+8 NUMBER					
N/A			N/A		l					
3 STREET ADDRESS (P O Bos, AFD #, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE					
5 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE					
I NAME		02 D+8 NUMBER	08 NAME		09 D+B NUMBER					
N/A			N/A							
3 STREET ADDRESS (P O. Box, RFD #. etc.)		04 SIC CODE	10 STREET ADORESS (P O Box. RFD P. etc.)		1 1 SIC CODE					
5 CITY	O6 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE					
				l l	ĺ					
1 NAME		02 D+8 NUMBER	OS NAME		09D+8 NUMBER					
N/A			N/A							
3 STREET ADDRESS (P O. Box. AFD P. etc.)		04 SIC CODE	10 STREET ADDRESS (P O Box. AFD #. etc)		1 1 SIC CODE					
IS CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE					
			IV BEALTY OWNER(S)		<u>.</u>					
I NAME		02 D+B NUMBER	01 NAME	T MOST TOCOM (MSC)	02 D+B NUMBER					
PNB Bank - Mr. V	an Deuson		N/A							
3 STREET ADDRESS (P O. Box, MFO P. arc.)		04 SIC CODE	03 STREET ADDRESS (P. O. Box, RFD #. MC)		04 SIC CODE					
Broad and Chesnu	t Streets									
5 CITY	OGSTATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE					
Philadelphia	РА	19103								
INAME		02 0+8 NUMBER	Q1 NAME		02 0+8 NUMBER					
Allen Levan			N/A							
3 STREET ADDRESS (P.O. Box, APD +, etc.)		04 SIC CODE	OS STREET ADDRESS (P O. Box, RFD P. HC.)		04 SIC CODE					
Fox Hill Farm, RI	2									
5 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE					
Doylestown	PA	18901								
1 NAME		02 D+B NUMBER	01 NAME		02 D+8 NUMBER					
N/A			N/A							
3 STREET ADDRESS (P 0. des. AFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P 0. Box, HFD #, HC.)		04 SIC CODE					
SCITY	OGSTATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE					
	l l			1	ł					
. SOURCES OF INFORMATION	a anacity relevant	e.a., state files - sample and	l							
				الالتداخلا متدار كالكالي ويستباع						

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENT	IFICATION
A STATE	02 SITE NUMBER

1 NAME		02 D+8 NUMBER			
Current Owner					
3 STREET ADDRESS (P O Box, RF04, etc.)		04 SIC CODE			
5 CITY	OS STATE	07 ZIP CODE	_		
II. OFF-SITE GENERATOR(S)					
N/A		02 D+B NUMBER	01 NAME N/A		02 D+8 NUMBER
STREET ADORESS (P O Box. AFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Bos.	04 SIC CODE	
5 CITY	06 STATE	07 ZIP CODE	05 CITY	O6 STATE	07 ZIP CODE
			-		
		02 D+BNUMBER	01 NAME		02 D+8 NUMBER
. N/A D3 STREET ADDRESS (P.O. Box, RFD #, MC.)		04 SIC CODE	03 STREET ADORESS (P. O. BOX.		D4 SIC CODE
5 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
V. TRANSPORTER(S)				I	
N/A		02 D+8 NUMBER			02 D+8 NUMBER
STREET ADORESS (P O Box, RFD #, erc)		04 SIC CODE	03 STREET ADDRESS (P O. Sex.	AFD P. etc)	04 SIC CODE
S СПТҮ	06 STATE	07 ZIP CODE	05 CITY .	06 STATE	07 ZIP CODE
INAME		02 D+8 NUMBER	01 NAME	l	02 D+B NUMBER
N/A			N/A		
3 STREET ADORESS (P.O. Box, HFD P. etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box	. RFD #. etc.)	04 SIC CODE
5 CITY	OS STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
SURCES OF INFORMATION ICA &	ante references.	e.g., sizie /link, sample energy	ri, (1990/13)		······································
			T III regarding o	menerator inform	ation.
There were no reco	rds avai	liable co ri			
There were no reco	rds avai	liadie co Fi	i iii iuguiunig i		
There were no reco	rds avai	liable to Fi	i ii icguidhig (

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€epa	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES	O STATE OZ STE NUMBER
PAST RESPONSE ACTIVITIES (Communed)		
01 C R. BARRIER WALLS CONSTRUCTED	02 DATE	03 AGENCY
N/A		
01 I S. CAPPING/COVERING 04 DESCRIPTION	02 DATE	03 AGENCY
N/A		
01 □ T. BULK TANKAGE REPAIRED 04 DESCRIPTION N / Δ	02 DATE	03 AGENCY
01 U GROUT CURTAIN CONSTRUCTE 04 DESCRIPTION	D 02 DATE	03 AGENCY
N/A		
01 C V. BOTTOM SEALED 04 DESCRIPTION	02 DATE	03 AGENCY
	02 DATE	03 AGENCY
04 DESCRIPTION	V2 UA1E	
01 II X. FIRE CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY
N/A		
01 C Y. LEACHATE TREATMENT 04 DESCRIPTION N/A	02 DATE	03 AGENCY
01 I Z. AREA EVACUATED 04 DESCRIPTION	02 DATE	03 AGENCY
	0/1F/0/	
01 UL 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION Access is controlle	d by a fence and locked date	w were
	02 DATE	03 AGENCY
04 DESCRIPTION		· · ·
01 2 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION	02 DATE	03 AGENCY
A plan for remedial Mr. Sabia's consult reason for the reme	action has been submitted to the ant. The plan was unacceptable f dial action denial is unknown at	e PA DER Region IV by to the PA DER. The this time.
		· ·
SOURCES OF INFORMATION (Care apacitie	: referenced, e.g., eller fleg, sample analyza, reports)	
	spection dated February 15 1084	and DA DEP personnel
NUS FIL III SITE IN	spectron dated rebluary 13, 1304	and FA bek personner.

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SECTION 6

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Site Name: Domino Salvage TDD No.: F3-8311-12

6.0 LABORATORY DATA

6.1 Sample Data Summary

000047

mine Salvage 3, Feb 1984	Nt con Nt K	A B A Remarks					Medium Conic. Unit to	Medium Cour Units	Medium Conc Units	(96.5 Medium Conc	Medium Cour Unity	medium Cour Units	Medium Conc UNITS			
Site Name Do. Date of Sample 13	ected	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	<566 <566	2400 822 4700	0 < 588 4,704 < 588	09220962460	0 1,076 5934	0 980 3,332	01,2253,450	0<96.5 210	8 <40.5	12,832	2 350			ertion of this report.
Summ.kRY IPOLINDS] Inorganic	Compounds Det	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		130 50,750	162 92,610	342 418,00	X0.007 X0.007 102,12	09'EN	(2,50	0.039 4,90	0.55	1 181,27	. 915.			entral Quality Assurance s
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ary inclusion compounds, prease see the Analytical Quality Assurance section of this report. . 8....

 \diamond Denotes results of questionable qualitative significance based upon quality assurance review of data.

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me 3742 WEII # 7 A2 4/2	270 350 .	
m. 3743 W=11 # 1 Ay U318 14	169 1.50 241	
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mc3756 TANK Layren A, ws/l	2 5 4 2 6 4 · · · · · · · · · · · · · · · · · ·	
mc3727 Schul we 11 A, 3/2		
ne3780 tauk LASORN Seep my/ky 5.6	0.10 16 0.18 48.3	
NOTE: For a review of this data and non-target, tentatively ident	tified compounds. please see the Analytical Quality Assurance section of this ren	

 \diamond Denotes results of questionable qualitative significance based upon quality assurance review of data.

EPA Nun	mb. :31-1 nber <u>PH - 789</u>	را				יאלארי סרוקיים	UNPOLINE	c, nic		, Sit Date o	te Name of Sample	13 Fil	5.216-45 E	
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Mc-3N4	Middle TANK	oir W	ng k4					44.8	২					
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TDD Number $\bigcirc 3 - 33/1 - 12$ EPA Number $\bigcirc 93 - 783$	TARGL, COMPOUNDS	Site Name Duri to Daluary E Date of Sample 13 Feb 1834
	Compounds Detec	
Sample Sample Description Phase Units C C	es list wears the Califier of Lead	Children Remarks
m. 3731 B.5 LASCON Sel my 1/2 0.5 4.1	025h b'l hhl	
m 3500 FARM Here Ag 13/1	34	
MC-3749 Middle TANK OiL M9/43	d.0 ¢ 1.0 ¢	CYANIDE NOT ANALYZED
MC-3750 Right TANK OiL Mylus	19.00 1.30	CYANIDE NOT ANALYZED
MC-3751 Left TANK Oil Mg/43	6.50 1.1.0	CYANDE NOT ANALYZED
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06		
NOTE: For a review of this data and non-target, tentatively identified	d compounds, please see the Analytical Quality Assurance sect	ion of this report.

 \diamond Denotes results of guestionable gualitative significance based upon quality assurance review of data.

Site Name: Domino Salvage TDD No.: F3-8311-12

6.2 Quality Assurance Review

6.2.1 Organic Data: Lab Case 2420/982C

6.2.1.1 Introduction

The organic analyses of samples for this case were performed by 3 CLP laboratories. All aqueous samples were analyzed by one laboratory, all sediment samples were analyzed by a second laboratory, and all oil samples were analyzed by a third laboratory. The findings offered in this report are based upon a general review of all available data, blank analysis results, surrogate and matrix spike recoveries, duplicate analysis results, evaluation of GC confirmations, and target compound matching quality.

6.2.1.2 Qualifiers

It is recommended that this data package be utilized only with the following qualifier statements:

o The following results may be qualitatively questionable:

Compound	Samples with Questionable Results
2-Hexanone	All positive sample results
Acetone	All postive sample results
2-Butanone	All positive sample results
Chloroform	All positive sample results
Methylene Chloride	All positive sample results, except C-4681
	and C-4677
Toluene	All positive sample results, except C-4298,
	C-4677, C-4678, and C-4887
Benzene	All positive sample results, except C-4887
	and C-4889
Tetrachloroethene	C-4815, C-4834, C-4886, C-4890, and C-
	4891
Trichloroethene	C-4679
	000064

Site Name: Domino Salvage TDD No.: F3-8311-12

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Compound	Samples with Questionable Results
Carbon Disulfide	C-4849 and C-4837
Styrene	C-4883
O-xylene	C-4883
Bromodichloromethane	C-4300
Di-n-butyl phthalate	All positive sample results
Bis(2-ethylhexyl)phthalate	C-4293, C-4295, C-4297, and C-4681
Endosulfan sulfate	C-4679 and C-4894
Alpha-BHC	C-4837
4,4'-DDD	C-4294 and C-4298
4,4'-DDE	C-4883, C-4884, and C-4894
Heptachlor	C-4884
Alpha-endosulfan	C-4894
4,4'-DDT	C-4294, C-4677, C-4678, and C-4884
Endrin	C-4894
Dieldrin	C-4894
Beta-BHC	C-4894

The aforementioned results were designated questionable because there is evidence to doubt the presence of these compounds at concentrations less than or similar to the levels reported. However, with certain exceptions listed below, it can be assumed that concentrations significantly greater than the levels reported cannot be present.

- o Actual detection limits for di-n-butyl phthalate, p-chloro-m-cresol, and 4nitrophenol in sample C-4295 may be significantly higher than reported.
- Actual detection limits for pentachlorophenol and 4-nitrophenol in sample C-4300 may be significantly higher than reported. Furthermore, the actual detection limits for other acid compounds in this sample may also be significantly higher than reported. (excluding phenol and 2,4dimethylphenol)
- o The actual detection limit for some acid compounds in sample C-4836 may be significantly higher than reported.

- Although the positive result for di-n-butyl phthalate was questioned in sample C-4300, if this compound is present the reported concentration may not reflect the average concentration of this compound.
- o The actual detection limits for pesticides in samples C-4296, C-4298, C-4300, C-4837, C-4677, C-4678, C-4833, C-4849, C-4883, C-4884, C-4887, C-4888 (oil), and C-4889 may be significantly higher than reported. (Although the presence DDT in sample C-4677, C-4678, and C-4884; DDD in sample C-4298; alpha-BHC in sample C-4837; DDE in samples C-4883 and C-4884; and heptachlor in sample C-4884 was questioned, <u>if</u> these compounds are present, the actual concentrations may be significantly higher than reported.)
- The actual detection limits for 1,2,4-trichlorobenzene, acenaphthene, 2,6dinitrotoluene, di-n-butyl phthalate, pyrene, N-nitrosodipropylamine, 1,4dichlorobenzene, pentachlorophenol, 4-chloro-3-methylphenol, phenol, 2chlorophenol, dieldrin, endrin, and 4-nitrophenol may be significantly higher than reported in sample C-4887.
- Although negative result for PCBs in samples C-4887 and C-4889 were initially report, the laboratory was requested to reevaluate the chromatograms. The positive results of this resubmittal have been incorporated into the Sample Data Summary.
- Per EPA request, tentatively identified compounds, which were reported by the laboratory, are not included in this report.

6.2.1.3 Findings

o Laboratory and/or field blank analysis revealed the presence of 2hexanone, acetone, 2-butanone, chloroform, toluene, methylene chloride, benzene, tetrachloroethene, carbon disulfide, di-n-butyl phthalate, and bis(2-ethylhexyl) phthalate at suffient levels to question the aforementioned sample results.

- o All positive results for acetone were questioned since this solvent was used as a decontamination rinse.
- o The following may also be a result of chromatographic ghosting:

Sample Number	Compounds Reported	Preceding Run
C-4834	Tetrachloroethene	C-4631
C-4679	Trichloroethene	C-4297
C-4686	Tetrachloroethene	C-4885
C-4890	Tetrachloroethene	100ng - standard
C-4891	Tetrachloroethene	C-4890
C-4300	Bromodichloromethane	50ng - standard
	2-hexanone	
	Toluene	
C-4833	Chloroform	50ng-standard
Y.	2-hexanone	•
	Toluene	
C-4677	Benzene	200ng-standard
C-4637	Chloroform	C-4677
	2-hexanone	
	Carbon Disulfide	
	Toluene	
C-4883	Chloroform	50ng-standard
	2-hexanone	
	Styrene	
	O-xylene	
	Toluene	

 All positive results for 4,4'-DDT, 4,4'-DDE, 4,4'-DDD, alpha-BHC, beta-BHC, alpha-endosulfan, endosulfan sulfate, heptachlor, endrin, and dieldrin were questioned because the method of identification depends on a single peak response on dual GC columns. This methodology is subject to random chromatographic interferences.

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- Very low or zero recovery was reported for the matrix spike compounds: di-n-butyl phthalate, p-chloro-m-cresol, and 4-nitrophenol in sample C-4295.
- o Zero recovery was reported for the matrix spike componds: pentachlorophenol and 4-nitrophenol in sample C-4300. In addition, zero recovery was reported for 1 acid surrogate spike in this sample. Phenol and 2,4-dimethylphenol are not effected since the surrogate compound d₅phenol was recovered within acceptable criteria.
- o Zero or very low recovery was reported for all 3 acid surrogate compounds in sample C-4886.
- o Duplicate matrix spike recoveries for di-n-butyl phthalate in sample $C_{-\frac{1}{2}}$ 4300 revealed poor precision.
- o Zero recovery was reported for the pesticide surrogate compound dibutyl chlorendate in samples: C-4296, C-4298, C-4300, C-4837, C-4677, C-4833, C-4849, C-4883, C-4884, C-4887, C-4888 (oil), and C-4889.
- Zero recovery was reported for the matrix spike compounds: 1,2,4trichlorobenzene, acenaphthene, 2,6-dinitrotoluene, di-n-butyl phthalate, pyrene, N-nitrosodipropylamine, 1,4-dichlorobenzene, pentachlorophenol, 4-chloro-3-methylphenol, phenol, 2-chlorophenol, dieldrin, endrin, and 4nitrophenol in sample C-4887.

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• Examination of sample chromatograms indicated the presence of PCB-1254 in samples C-4887 and C-4889. The laboratory was requested to provide standards and quantitate these findings. However, it should be noted that the concentration of PCB-1254 in both samples is below the detection limit of 5,000 ug/kg initially reported by the laboratory.

o Tentatively identified compounds were examined only for possible target compound identifications. 000068

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6.2.1.4 <u>Summary</u>

The attached Quality Assurance Review has identified the aforementioned areas of concern. Please see the accompanying Support Documentation for specifics in this Quality Assurance Review.

allun Report prepared by Rock J. Vitale rRV Date: August 15, 1984

6.2.2 Inorganic Data: Lab Case 2420

6.2.2.1 Introduction

The findings offered in this report are based upon a general review of all available inorganic laboratory data, including a special analytical service (Task I and II for oil samples). The data package was examined for blank analysis results, matrix spike results, duplicate analysis results, and quality assurance documentation.

6.2.2.2 Qualifiers

It is recommended that this data package be utilized only with the following qualifier statements:

o The following results are considered questionable:

Constituent	Sample with Questionable ResutIts
aluminum	MC-2968, MC-2969, MC-3734, MC-3736,
	MC-3738, MC-3742, MC-3750, and MC-
	3756
chromium	MC-3744
beryllium	MC-3743 and MC-3780
copper	MC-3732, MC-3733, MC-3742, MC-3752,
	MC-3753, and MC-3800
iron	MC-3743, MC-3747, MC-3750, MC-3751,
	MC-3752, MC-3753, MC-3779, and MC-
	3800
nickel	MC-3749
zinc	MC-3733, MC-3747, MC-3752, MC-3753,
	and MC-3800 00070
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Site Name: Domino Salvage TDD No.: F3-8311-12

 Constituent
 Sample with Questionable ResutIts

 tin
 MC-2969, MC-3732, MC-3736, MC-3737, MC-3739, MC-3739, MC-3747, MC-3748, MC-3749, MC-3750, MC-3750, MC-3751, MC-3752, MC-3753, MC-3756, and MC-3756, and MC-3780

 cadmium
 MC-3734, MC-3735, MC-3743, MC-3744, MC-3747, MC-3748, MC-3749, MC-3750, and MC-3751

lead MC-2968, MC-2969, MC-3733, MC-3734, MC-3742, MC-3744, MC-3747, MC-3752, MC-3753, MC-3779, and MC-3800

The aforementioned results were designated questionable because there is evidence to doubt the presence of these constituents at concentrations less than or similar to the levels reported. However, it can be assumed that concentrations significantly greater than the levels reported cannot be present.

 The reported results for aluminum, copper, nickel, and zinc in sample MC-3751 may not reflect the average concentrations present in this sample. In addition, if iron were actually present, then the reported results for this constituent may not reflect the average concentration present in sample MC-3751.

6.2.2.3 Findings

- o Aluminum, chromium, beryllium, copper, iron, nickel, zinc, tin, cadmium, and lead were detected in field and/or laboratory blanks at levels sufficient to guestion the aforementioned sample results.
- Aluminum, copper, nickel, zinc, and iron exhibited excessive variability in the duplicate analyses for sample MC-3751. This may be due to incomplete combustion of the oil sample during preparation.

Site Name: Domino Salvage TDD No.: F3-8311-12

6.2.2.4 Summary

The attached Quality Assurance Review has identified blank contamination as the primary area of concern. Please see the accompanying Support Documentation Appendix for specifics on this Quality Assurance Review.

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Report prepared by Atwood F. Davis

000972

M Date: August 15, 1984


Site Name: <u>Domino Salvage</u> TDD No.: F3-8311-12

7.0 TOXICOLOGICAL EVALUATION

7.1 Summary

Several contaminants reported in on-site samples including tetrachlorethylene (PCE), trichloroethylene (TCE), lead, and copper were also measured in groundwater and downstream Mauses Creek samples, suggesting off-site transport of contaminants found on the Domino Salvage site. Such transport may have impacts on human health and the environment. Note that the presence of lead in all off-site aqueous samples was questioned and transport of lead off site in these samples is suggested but not proven by current data.

Four monitoring wells (MWs) and the on-site well revealed the presence of potentially carcinogenic chlorinated solvents such as PCE and TCE, as well as the toxic and moderately toxic metals lead and copper. Groundwater samples also revealed limited evidence of additional chlorinated solvents such as trans-1,2-dichloroethylene, methylene chloride, and vinyl chloride and inorganic contaminants chromium, barium, arsenic, and aluminum. Contaminant concentrations are sufficiently high to possibly preclude future use of groundwater beneath the Domino site for potable purposes. Of particular concern is the on-site well, which is apparently used as a potable source. The highest groundwater concentration of PCE was reported in this well; long-term daily consumption of 2 liters of this well water may result in an increased cancer risk (about 10 cases per 100,000 persons exposed), as well as noncarcinogenic adverse effects.

The potential exists for continued migration of groundwater contaminants off site, which may affect nearby domestic wells. Current results suggest that PCE and TCE and possibly lead have contaminated an off-site well that is apparently downgradient of the site. The Cope domestic well, also apparently downgradient of the site, revealed no reliable evidence of any of the aforementioned contaminants; however, periodic resampling may be indicated to insure that reported solvents and metals have not reached this water source. Other domestic wells (Moll and Baumer residences) are nearby, and samples from these wells may also be indicated to confirm acceptable water quality.

7-1

A school well (located north of the site) revealed a low level of TCE and the questionable presence of a low level of lead. The reported TCE concentration is well within the Adjusted Acceptable Daily Intake (AADI); the accompanying potential carcinogenic risk is on the order of 1 case for every million persons exposed. The concentration of lead reported in the school well, if assumed to be real, is within the Maximum Contaminant Level (MCL) set for lead in public water supplies. However, the MCL may not provide an adequate margin of safety to children (who are especially susceptible to the toxic effects of lead), in view of other possible sources of lead intake. While this well appears to be upgradient of the site, resampling may be indicated to confirm or rule out the presence of a potentially significant concentration of lead.

Samples of waste piles, lagoon surface waters, and sediments revealed, in many cases, a pattern of contamination similar to that reported in groundwater. The notable concentrations of PCE, TCE, lead, and copper reported in site environmental samples should not pose substantial threats to human health via probable routes of exposure.

The drainage ditch and Mauses Creek samples, taken downstream of the Domino site, also revealed the presence of PCE, TCE, lead, and copper, suggesting off-site surface transport of contaminants. The concentration of copper and lead (if assumed to be real) reported in Mauses Creek downstream of the site may have adverse effects on some forms of aquatic life.

Other contaminants, including phthalate acid esters, 1,1,2-trichloroethane, and Polychlorinated biphenyls (PCBs) were measured in site environmental samples (but not groundwater). Drainage ditch and Mauses Creek samples also indicated the presence of each of these contaminants.

7.2 Support Data

7.2.1 Scope of Contamination

Groundwater, on-site lagoons, stained soils and sediments, and downgradient surface waters revealed notable concentrations of lead, copper, and various chlorinated aliphatics such as PCE, TCE, vinyl chloride, and methylene chloride. Other contaminants which were reliably reported primarily in stained soils and sediments, as well as in downgradient streams, but not groundwater included several phthalate acid esters, carbon disulfide, dimethyl- and methylphenol. Samples from three 500- to 1,000-gallon storage tanks revealed low levels of PCE, TCE, and benzene.

PCE was reported in the on-site well, used as a potable water source by the Artly family, at a concentration of 364 ug/l. PCE was also reported in the Cope well (4.6 ug/l), but was determined to be questionable by Quality Assurance review. Additional evidence of PCE contamination of groundwater is provided by monitoring and unused domestic well samples which revealed 9 to 364 ug/l of this potentially toxic solvent. PCE was also reported in a number of on-site aqueous and sediment samples, including the tank and big lagoons (30 to 200 ug/l), and the carbon pile (2,288 mg/kg). The highest concentration of PCE was reported in the right storage tank, which revealed 4,900 mg/kg.

Low levels of TCE were reported in the on-site water supply (24 ug/l), the school well (5 ug/l), and 2 on-site monitoring wells (24 to 31 ug/l). On-site lagoon and sediments revealed 3 to 66 ug/l and 29 to 130 ug/kg TCE. The right storage tank revealed about 20,000 ug/kg TCE.

Other chlorinated solvents reported in MW samples and 1 or more on-site samples included vinyl chloride (21 ug/l in the new well), methylene chloride (1,080 ug/l in MW 4), and trans-1,2-dichloroethylene (323 ug/l in the new well). On-site samples revealed 540 ug/kg and 13 ug/l vinyl chloride in the big lagoon sediment and surface water samples, 590 ug/kg methylene chloride in the west pile, 18 to 113 ug/l and 39 to 550 ug/kg trans-1,2-dichloroethylene in the pallet and big lagoon surface waters and sediments.



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Low levels of several other organic contaminants were reported in samples of onsite lagoons and disposal piles, but not in groundwater. These contaminants were generally not chlorinated hydrocarbons. Included in this group were bis(2ethylhexyl) phthalate, reported at concentrations of 45 to 1,143 ug/l in the tank and big lagoon aqueous samples, and 318 to 187,272 mg/kg (18.7 percent) in all onsite soil and sediment samples; 1,1,2-trichloroethane, 34 ug/l in lagoon aqueous samples and less than 11 to 97,000 ug/kg in all on-site soil and sediment samples (including 710 ug/kg in one tank sample) and benzene about 1,900 ug/kg to about 3,500 ug/kg in 2 storage tanks.

Notable inorganic contaminants reported in MW samples included: lead (109 to 241 ug/l in MW 1 and the new well); chromium (131 ug/l in MW 1); arsenic (10 and 14 ug/l in MW 4); barium (710 to 928 ug/l in the new well and MW 1); cobalt (74 ug/l in MW 1); and aluminum (24,610 to 124,900 ug/l in the new well and MW 1). Note that both MW 1 and the new well (both of which revealed the largest number of notable inorganic contaminants) are located on the southwest portion of the site, between the green pile and the west pile.

Inorganic analysis of soil and sediment samples from disposal piles and lagoons generally revealed notable concentrations of lead (48.3 to 11,350 mg/kg) and copper (159 to 63,800 mg/kg).

Aqueous and sediment samples taken from a drainage ditch and Mauses Creek downgradient of the Domino Salvage site revealed a pattern of contamination similar to that reported on the Domino site, suggesting off-site release of several contaminants. PCE, TCE, trans-1,2-dichloroethene, bis(2-ethylhexyl) phthalate, diand n-octyl phthalate, 2,4-di- and 4-methyl phenol, 1,1,2-trichloroethane, PCBs, and vinyl chloride were all reported in 1 or more drainage ditch samples, as well as on site. None of these contaminants were reliably reported in the Mauses Creek samples taken upstream of the Domino Salvage site. Notable concentrations of lead and copper were also reported in drainage ditch and downgradient Mauses Creek samples. Excessive concentrations of these metals were not reliably reported in the upstream Mauses Creek samples.

7.2.2 Toxicologic Considerations

7.2.2.1 PCE and TCE

Tetrachloroethylene (PCE) and trichloroethylene (TCE) are structurally related solvents used primarily in dry cleaning operations and metal degreasing. Both TCE and PCE can be found in small quantities in drinking water.

The widespread use of PCE and TCE has resulted in their release into water via aqueous effluents from production plants, consumer industries, and household sewage. PCE and TCE are volatile and generally do not persist in moving surface waters. When introduced into enclosed groundwater, these compounds can remain for extended periods of time.

Acute exposure to PCE and TCE, as with all chlorinated alkenes, may result in central nervous system (CNS) depression, incoordination, and unconsciousness. Inhalation exposure to low levels of either of these solvents may result in irritation of mucous membranes and intoxication, but generally no permanent injury.¹ Threshold levels for induction of early CNS depression in humans have been reported at 170 to 200 ppm for TCE and 100 ppm for PCE.^{2,3,4}

Some studies also suggest that TCE and PCE may have carcinogenic potential. National Cancer Institute (NCI) bioassays assessing the carcinogenicity of TCE and PCE were published in 1976 and 1977, respectively. More recent NCI bioassays have been conducted on these chemicals and a draft technical report is available for TCE; the PCE bioassay is currently undergoing analysis. Utilizing the NCI bioassays and other available information, the International Agency for Research on Cancer (IARC) has concluded that PCE and TCE have limited evidence of carcinogenicity in animals and inadequate evidence from available human data. This means that the data suggest a carcinogenic effect in one species, but lack confirmation in others.

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Epidemiological evidence does not indicate that ingestion of low levels of TCE or PCE by humans will lead to cancer. However, in view of the NCI bioassays and IARC conclusions, it is prudent to assume that TCE and PCE may have carcinogenic potential in humans. Dose-response data from the bioassays have been used by the Safe Drinking Water Committee (SDWC) to develop statistical estimates of human cancer risks and are expressed as a probability of cancer after a lifetime consumption of .1 liter/day of water containing a specified amount of TCE or PCE.

The highest concentration of PCE measured on site was in the on-site well (791 ug/l). Contamination of this well may be of concern as this groundwater source is apparently consumed by the Artly family. An earlier sampling (4/83) of this well revealed about 24,000 ug/l PCE. TCE was also reported in this well at a concentration of 24 ug/l in current sample results.

Long-term use of the on-site well as a potable water source may result in some increased carcinogenic risk. Utilizing cancer risks developed by the SDWC, daily consumption of 2 liters of water from the on-site well would results in an increased cancer risk of about 10 cases per 100,000 persons exposed to the reported concentrations of PCE (estimated lifetime risk of 10×10^{-5}), and about 11 cases per 1,000,000 persons exposed to the reported concentration of TCE (estimated lifetime risk of about 11×10^{-6}).^{5,6} For comparison purposes, the estimated lifetime risk of death from a cyclone or hurricane is estimated to be 5 to 50 times greater (2×10^{-5}).⁷ Taking potential carcinogenic risks into consideration the World Health Organization has recommended tentative limits of 10 and 30 ug/l for PCE and TCE in drinking water. Note that the concentration of PCE in the on-site well far exceeds this recommended limit.

Repeated consumption of water from the on-site well may also pose noncarcinogenic risks. For both PCE and TCE, liver toxicity is considered to be the most sensitive indicator of adverse health effects. An AADI, considering potential noncarcinogenic health effects, has been developed by EPA; these values are 85 ug/1 for PCE and 257 ug/1 for TCE.⁸ The concentration of PCE in the onsite well far exceeds the recommended AADI, suggesting that prolonged consumption of water from this well may also pose noncarcinogenic risks to human health.

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Short-term (24 hours) adverse effects would not be expected to occur from limited use of water from the on-site well. The SDWC has developed 24-hour Suggested No-Adverse-Response Levels (SNARLs), which are intended to provide a basis for making judgment of possible short-term health effects. Respective 24-hour SNARLs for PCE and TCE are 172,000 and 105,000 ug/l, well above concentrations reported in the on-site well.⁹

Sampled monitoring wells on site also revealed 9 to 364 ug/l PCE and 24 to 31 ug/l TCE. Theoretical long-term consumption of water from these wells may also result in an increased risk of cancer, based on the SDWC estimates.

Two domestic wells were sampled off site. The school well (located north of Domino Salvage) revealed 5 ug/l TCE and no PCE. No adverse noncarcinogenic effects would be expected to result from consumption of water contaminated with the reported concentration of TCE. Accompanying lifetime carcinogenic risks that may result from long-term consumption of this water are far lower than those associated with consumption of water from the on-site well, on the order of about 1 case for every million persons exposed (1.1 x 10^{-6}). This 1 in one million lifetime risk is comparable to that incurred by traveling 30 miles by car (risk of accident) or living 2 months in an average stone or brick building (risk of cancer caused by natural radioactivity).⁷

The Cope domestic well (located south of the Domino Salvage site) revealed no PCE or TCE above analytical detection limits. Another domestic well, the farmhouse well (currently <u>not</u> used for potable supply), revealed 22 ug/l PCE and 98 ug/l TCE. It should be noted that this well is located between the Cope well and the Domino site, possibly indicating migration of PCE and TCE off site. It must be assumed, therefore, that the potential for continued degradation of groundwater off site may exist. Periodic resampling of the Cope and school wells may be indicated to insure that contaminant concentrations do not approach those of more imminent concern. Environmental samples taken both on and off the Domino site also revealed measurable levels of PCE and TCE. Lagoon aqueous and sediment samples revealed 30 to 200 ug/l and 620 to 2,288,000 ug/kg PCE (0.23 percent); TCE concentrations were reported at 4 to 66 ug/l and 29 to 130 ug/kg. Three storage tanks on site revealed 42,000 to 9,900,000 ug/kg PCE (about 1 percent) and 20,000 ug/kg TCE.

PCE and TCE are absorbed through intact skin; however, skin exposure is generally insignificant relative to inhalation exposure. During normal industrial use (leading to exposure levels that would likely far exceed any obtained from intermittent contact with PCE and TCE reported on the Domino site), it is not probable that toxic amounts of PCE and TCE will be absorbed through the skin.

While no HNU readings were obtained on site during the inspection (conducted during a heavy rain) note that solvent-like odors were detected by the site inspection team. A more precise assessment of possible inhalation exposure levels, ambient air contaminants, and potential toxic threats cannot be made without additional information. As previously noted, threshold concentrations for subjective complaints following exposure to PCE and TCE are substantial, on the order of 100 ppm for PCE and 170 to 200 ppm for TCE. Note also that the most serious exposures to PCE and TCE generally occur only in a relatively small industrial population.

Current sample results also suggest off-site surface transport of PCE and TCE. Aqueous and sediment drainage ditch samples revealed 56 to 179 ug/l and 140 to 169 ug/kg PCE; TCE was measured in these samples at concentrations of 23 to 57 ug/l and 78 to 84 ug/kg. An aqueous and sediment sample taken in Mauses Creek downstream of the Domino site revealed even higher concentrations of these contaminants in most cases (i.e., 236 ug/l and 665 ug/kg PCE, and 56 ug/l and 245 ug/kg TCE). No PCE or TCE was reported above analytical detection limits in aqueous and sediment samples taken from Mauses Creek upstream of the site.

The concentrations of PCE and TCE reported in Mauses Creek downstream of the Domino Salvage site also would not be expected to pose substantial toxic threats to aquatic life, as reported concentrations of these contaminants are well below the Ambient Water Quality Criteria (AWQC) of 340 and 21,900 ug/l recommended for PCE and TCE. Evidence for weak to moderate bioaccumulation of PCE and TCE in aquatic organisms exists; however, it has been noted that the bioaccumulation was not accompanied by any detected ill effects.¹⁰ In general, it was also found that accumulation of these contaminants was greatest in fatty tissues such as liver, and far lower in edible muscle tissue.

PCE and TCE are volatile compounds and do not persist in moving surface waters. The ultimate fate of these contaminants in the environment is believed to be photoxidation in the troposphere.

7.2.2.2 Lead

Lead occurs in rocks primarily as the sulfide and in the form of oxides. It may replace some ions, such as calcium. Lead also occurs in potassium feldspar, where it replaces potassium. Lead carbonate is common in the oxidized zone of lead ores.

No beneficial health effects of lead have yet been found. Acute lead poisoning is extremely rare in the general population. The highest levels of lead exposure occur principally among people working in lead smelters and storage battery factories. In the general population, the major hazard posed by lead is for young children who chew and swallow objects contaminated with lead-containing paints (for example, flaking paint on walls and woodwork or weathered lead paint dust and flakes leaching from the exterior of residential and commercial structures into adjacent soil and dust).

Chronic low level lead exposure produces adverse effects on the hematopoietic system, central and peripheral nervous system, and kidneys. Disturbance in heme synthesis is considered to be the critical or first adverse effect of lead; such alterations have been reported in children with blood lead levels of 15 to 30 ug/dl (micrograms/deciliter).¹¹

Absorption of ingested lead (one of the primary exposure routes) is 5 to 10 percent in adults and 40-50 percent in children 2 to 3 years old.¹² No data are available for very young infants, but animal data indicate that the percentage absorbed is age related and may be higher in early infancy. This higher absorption rate plus a faster rate of CNS development illustrates why children are especially susceptible to the toxic effects of lead.

Two on-site monitoring wells, no. 1 and the new well, revealed reliable evidence of lead contamination at levels exceeding the Primary MCL of 50 ug/l. Lead was measured in these wells at 241 and 109 ug/l. The remaining monitoring well samples (nos. 4 and 7) revealed 35 to 78 ug lead per liter; the on-site well, being used for potable supply by the Artly family, revealed 11 ug/l lead. The presence of lead in MWs 4 and 7 and the on-site well was determined to be questionable due to blank contamination.

Research suggests that drinking water with lead concentrations greater than 100 ug/l may be sufficiently high to raise and sustain blood lead levels (PbB) above 25 ug/dl, the apparent threshold for alteration in heme synthesis.¹³ Also, the Safe Drinking Water Committee has indicated that the present MCL of 50 ug/l may not provide a sufficient margin of safety, particularly for young, growing children, when other unknown sources of lead exposure are considered.¹⁴

Current levels of exposure to lead from the diet are estimated to be about 200 ug/day for adults and 40 to 200 ug/day for children (3 months to 9 years).¹⁵ Theoretical use of groundwater beneath the Domino Salvage site as a potable source would result in lead intake from water that exceeded the average daily intake (assuming consumption of 2 liters of water per day). Note that the assumption does not consider other documented sources of lead exposure such as air or food, which could elevate daily intake to even higher levels. In addition, theoretical use of this groundwater as a potable source could produce subtle hematopoietic system effects, as discussed previously. It is important to note that more acute effects such as lead-induced encephalopathy would not be anticipated at the reported concentrations. The reported lead concentrations in this groundwater, therefore, may preclude its future use as a potable source.

Off-site groundwater samples revealed no reliable evidence of lead contamination. The Cope and school wells (both used for potable supply) revealed 24 and 22 ug/l lead, respectively. The farmhouse and barn wells (currently not consumed) revealed respective lead concentrations of 34 and 43 ug/l. The presence of lead in all these samples was determined to be questionable due to blank contamination. Note that the school well is located north of the Domino site, while area groundwater flow is believed to be to the east-southeast.

If the reported presence of lead in the school well is assumed to be real, it may warrant attention due to the target population (children) consuming water from the source.

The Centers for Disease Control has recommended that an upper limit of normal for lead in the blood of children to be 30 ug/dl.¹⁵ This PbB (blood lead level) was estimated to result in children when daily lead intake from all sources totaled 300 ug.¹⁷ Daily consumption of 2 liters of water from the school well (if the reported lead concentration is assumed to be real) would contribute 44 ug (about 14.5 percent of the recommended upper limit) to the total daily intake. The actual lead intake of any given child from this well would probably be lower, as the school well is utilized by the school population as a sole source of potable water (i.e., school children are most likely to have access to this water supply for about 6 hours/day, 5 days/week). While the actual intake of lead from this water source would not appear to make an excessive contribution to total daily lead intake, note that lead intake from other likely sources (food, air) is not known. Generally, it has been reported that children living in urban areas have a higher lead intake than children in rural areas due to the higher lead content of soil, street dust, and ambient air. Consequently, urban children are more likely to exceed recommended daily lead intake levels. Ideally, lead concentrations in drinking water should be minimized to provide a greater margin of safety for lead intake from other sources. Resampling of the school well may be indicated to ascertain whether the presence of lead is real and to insure that lead levels do not approach those of more imminent concern.



Environmental samples of lagoons and disposal piles on the Domino site also revealed excessive lead concentrations. The highest concentrations of lead on site were 725 to 11,350 mg/kg (1.13 percent), reported in disposal piles. Lagoon surface waters and sediments revealed 264 ug/l and 48.3 to 4,970 mg/kg lead. Lower levels (6.1 to 36.5 ug/l) of lead were measured in 2 lagoon aqueous samples, but were questioned by Quality Assurance Review due to blank contamination. Concentrations of lead, reported in disposal piles, generally exceed lead concentrations reported in nonpolluted soils of 2 to 200 mg/kg.¹⁸ Inhalation of lead-laden dust particles from the disposal piles may serve as a possible route of human exposure. Such exposure may contribute to an increased body burden of lead; however, potential levels of exposure cannot be estimated from current information.

Transport of lead reported in disposal piles with surface runoff to nearby streams may pose threats to indigent aquatic life. Lead may also leach into underlying groundwater under acidic conditions. As previously discussed, current results indicate contamination of groundwater beneath the site with lead.

Drainage ditch samples also seem to suggest off-site transport of lead. Lead was reported in ditch aqueous and sediment samples at concentrations of 178 to 459 ug/l and 60 to 375 mg/kg. The reported aqueous lead concentrations are sufficiently high to have adverse effects on aquatic life. Note that while the drainage ditch is not intended to support aquatic life, it does drain into Mauses Creek. An aqueous sample, taken from Mauses Creek downstream of the confluence with the drainage ditch, did not reliably demonstrate the presence of lead (29 ug/l of lead was reported in this sample, but was questioned due to blank contamination). This questionable lead concentration, if assumed to be real, exceeds the recommended AWQC for the protection of aquatic life in soft water (proposed criterion) of 1.0 ug/l and may have adverse effects on some forms of aquatic fauna.

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The sediment sample taken downstream of the drainage ditch confluence revealed 52 mg/kg of lead, more than double the concentration reported in the upstream sediment sample. This sediment lead concentration, when considered in conjunction with drainage ditch sediment lead levels, seems to indicate off site transport of lead. While lead in an aqueous system generally adsorbs to bottom sediments, mobilization into overlying water is possible under certain conditions (low pH, etc.). The potential for degradation of Mauses Creek would, therefore, seem to exist.

7.2.2.3 Copper

Copper occurs as a natural or native metal, and in various mineral forms such as cuprite and malachite. Common uses for copper include electrical products, coins, and metal plating.

Copper is an essential trace element in animals and is required in the synthesis of hemoglobin. Copper is also required in plants for the synthesis of chlorophyll. The National Academy of Sciences's Food and Nutrition Board has estimated an adequate and safe copper intake of 2 to 3 mg/day.¹⁹

Copper has shown to be toxic to monogastric animals only when ingested in quantities that are 40 to 135 times greater than their respective requirements (80 to 270 mg for humans).¹⁹ Except for sheep, all animals absorb copper poorly and their gastrointestinal tracts provide an excellent barrier against oral toxicity. The greatest danger of adverse effects in humans arises when children consume acidic beverages that have been in contact with copper containers or valves.²⁰ The current Secondary MCL for copper in drinking water is 1,000 ug/l; this maximum concentration has been recommended to minimize taste problems and has no toxicologic significance.

• On the Domino site, MWs 1 and 4, and the new well reliably revealed 517, 2072, and 938 ug/l copper, respectively. Only the copper concentration reported in MW 4 exceeds the recommended Secondary MCL of 1,000 ug/l, which would render this water undesirable as a potable source but would not be expected to cause any adverse effects. MW 7 revealed 247 ug/l copper. This value was determined to be questionable due to blank contamination.

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Measurable concentrations of copper were also reported in the Cope domestic well (60 ug/l), the farm well (94 ug/l), and the barn well (103 ug/l). The school well revealed no copper above analytical detection limits. The presence of copper in the Cope domestic well, the farm well, and the barn well was determined to be questionable due to blank contamination. Note, however, that the concentrations of copper reported in these wells are far below levels which would be expected to have adverse effects, if assumed to be real.

Substantial concentrations of copper, from 8,490 to 63,850 mg/kg (6.38 percent), were reported in all waste piles sampled on site. Sampled lagoon sediments revealed 159 to 6,530 mg/kg copper; lagoon aqueous samples revealed 357 to 8,517 ug/l of this metal. Nonpolluted soils generally contain about 2 to 100 mg/kg copper.¹⁸ This value is used here for comparison purposes, as a waste pile or lagoon sediment cannot be considered normal soil.

The potential may exist for copper to be transported off site with surface runoff or to leach into groundwater. Current sample results seem to indicate that some transport of copper to these areas has occurred.

The drainage ditch aqueous and sediment samples also suggest off-site transport of copper. Copper was measured in these samples at concentrations of 3,055 to 6,110 ug/l and 409 to 5,805 mg/kg. Mauses Creek aqueous and sediment samples, taken downstream of the confluence with the drainage ditch, revealed 442 ug/l and 422 mg/kg copper, exceeding concentrations generally reported in normal soils and surface waters. (Mean surface water copper concentrations have been reported to be 15 ug/l; maximum levels are about 280 ug copper per liter.²¹)

Although copper is an essential trace element, excessive concentrations in surface waters can be toxic to aquatic life. An AWQC of 5.8 ug/l for the protection of aquatic life has been proposed for copper in soft water. Copper has been reported to be acutely toxic to some aquatic species at concentrations as low as 60 ug/l in soft water.²² The copper concentration measured in Mauses Creek exceeds both these levels and current copper concentrations in the creek may be toxic to some forms of aquatic life.

7.2.2.4 Other Contaminants

Three additional chlorinated aliphatics were each reported at notable concentrations in one monitoring well on the Domino site. Individual contaminants were as follows: trans-1,2-dichloroethylene (trans-1,2-DCE), reported at a concentration of 323 ug/l in the new well; vinyl chloride, reported at a concentration of 21 ug/l in the new well; and methylene chloride, reported at a concentration of 1,080 ug/l in MW 4.

Vinyl chloride is a known human carcinogen, and theoretical long-term daily consumption of 2 liters of water from MW 2 may result in an increased cancer risk of about 2 cases per 100,000 persons so exposed, according to the National Academy of Science.²³ Noncarcinogenic adverse effects would not be expected to occur, as the concentration of vinyl chloride reported in MW 4 is below the AADI of 60 ug/l, even assuming a daily consumption of 2 liters.²⁴ Note that the AADI assumes 100 percent of exposure to vinyl chloride results from drinking water.

Methylene chloride has recently been determined to be carcinogenic in both mice and rats in a National Toxicology Program (NTP) bioassay.²⁵ Risk assessments based on the results of this bioassay are not available, as the NTP Review Committee found uncertainties in the study. It should be assumed, therefore, that use of water from MW 2 as a potable source would result in an increased carcinogenic risk; however, the magnitude of that risk cannot currently be determined. No AADI has been developed for methylene chloride, but, based on the 24-hour and 7-day SNARLs of 35 and 5 mg/l, no noncarcinogenic adverse effects would be expected to result from the concentration of methylene chloride reported in MW 2.²⁶ Limited toxicity information is available for trans-1,2-DCE. Based upon what information is available, an AADI of 350 ug/l/day has been developed.²⁷ The concentration of trans-1,2-DCE reported in the new well approaches this concentration, suggesting that use of water from the new well for potable purposes may not be desirable. Note that the computation of the AADI incorporates a safety factor of 100, and that there is no direct evidence to indicate that daily ingestion of this amount of trans-1,2-DCE would produce adverse effects in humans. No data are available which indicate that trans-1,2-DCE has carcinogenic potential; however, the structurally related compound, 1,1-DCE, has produced increases in tumor incidences in mice and rats following inhalation exposure.

Trace or low levels of vinyl chloride, methylene chloride, and trans-1,2-DCE were reported in a limited number of site samples, including drainage ditch aqueous or sediment samples. The reported concentrations of these contaminants would not be expected to pose significant threats to human health or the environment via likely routes of exposure, but do provide additional evidence of off-site contaminant release.

Other inorganic contaminants reported in 1 or more MW samples at concentrations of potential concern include chromium (131 ug/l in MW 1), aluminum (719, 24,610, and 124,900 ug/l in MW 4, the new well, and MW 1), arsenic (14 ug/l in MW 1), and barium (928 ug/l in MW 1). The concentration of chromium reported in MW 1 exceeds the Primary MCL set for this metal for public water supplies. The concentration of barium reported in MW 1 approaches the MCL of 1,000 ug/l. The concentration of arsenic reported in MW 1 is within the MCL of 50 ug/l; however, there is some indication that ingested arsenic may have carcinogenic potential.

No MCL has been set for aluminum, and the wide exposure of humans to aluminum in food, cosmetics, medicines, and water sources would suggest that aluminum is relatively nontoxic to the majority of the population. Chronic hemodialysis patients may, however, constitute a special population at risk. Aluminum has been shown to accumulate in the serum and tissues of these patients after it is absorbed from the gastrointestinal tract or after parenteral administration of a dialysis fluid containing a high concentration of aluminum.^{28,29}

The concentration of aluminum reported in the new well and MW 1 exceed the 7day and 24-hour SNARLs of 5 and 35 mg/l, suggesting that water from these wells would not be suitable for potable purposes.²⁹ Also note that these SNARLs exceed the solubility of aluminum in nonacidic solutions and therefore have limited usefulness for water supplies that are otherwise acceptable for potable use. Concentrations of aluminum greater than 100 ug/l generally occur only in water with a pH less than 5.3^{30} It is interesting to note that pH measurements obtained from these samples ranged from 6.36 to 8.30.

Environmental samples taken on- and off-site did not reveal remarkable concentrations of chromium, barium, arsenic, or aluminum. Off-site wells (including those used for potable purposes) and the on-site water supply revealed none of the aforementioned contaminants above analytical detection limits.

Several other contaminants were reported in on-site samples at notable concentrations, but did not appear at levels of concern in groundwater samples. These included phthalate acid esters such as bis(2-ethylhexyl) phthalate (DEHP), and di-n-octyl phthalate (DNOP). These ubiquitous plasticizers were reported in disposal pile and lagoon sediment samples at concentrations of 318 to 162,500 mg/kg or 16.2 percent (DEHP) and less than 50 to 32,832 mg/kg or 3.28 percent (DNOP). Lagoon surface waters revealed 45 to 1,143 ug/l (DEHP).

A chlorinated alkane, 1,1,2-trichloroethane (structurally closely related to TCE), was reported in 2 site aqueous samples at concentrations of 34 to 58 ug/l, and in all soil/sediment samples at concentrations of less than 0.011 mg/kg to 97 mg/kg.

The reported phthalate and 1,1,2-trichloroethane concentrations would not be expected to pose significant threats to human health or the environment via probable routes of exposure in this case. Some evidence of carcinogenicity is available for DEHP and 1,1,2-trichloroethane; however, the limited pathways for exposure suggests an equally limited potential for carcinogenic initiation.

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Off-site transport of phthalates and 1,1,2-trichloroethane is indicated by the drainage ditch or creek concentrations of 17 to 80 ug/l and 18 to 19 ug/kg of 1,1,2-trichloroethane and 288 ug/l and 50,750 ug/kg to 418,000 ug/kg of DEHP. DNOP was reported in ditch and creek sediment samples at concentrations of less than 760 to 4,704 ug/kg. DNOP was reported in an aqueous creek sample, but was also reported in a creek sample taken upstream of the site, possibly indicating that its presence in creek aqueous samples may not be site related.

Contaminants of note reported in 3 large storage tanks sampled on site included PCE (42,000 to 4,900,000 ug/kg or 0.49 percent), TCE (about 20,000 ug/kg), benzene (about 1,900 to 3,500 ug/kg), and PCB 1254 (3,260 to 4,150 ug/kg). Significant concentrations of PCE and TCE were reported in on-site samples as discussed previously. No benzene was reliably reported in other on- or off-site samples. No PCB 1254 was reported in any environmental or groundwater samples; however, Aroclor 1248 was reported in drainage ditch and Mauses Creek sediment samples at concentrations of 796 to 5,361 ug/kg. Due to chromatographic similarities, it is difficult to distinguish PCB 1254 and 1248; consequently, it is possible that the Aroclors reported in on- and off-site samples may be identical in this case. PCBs are toxic, potentially carcinogenic, and persistent; however, the low levels and limited pathways for exposure suggest little threat in this case.

Prepared by:

Elizabeth K. Quinn, Toxicologist

Date: December 17,

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APPENDIX A

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COST CENTER:	REM TECHNICAL	I/FIT ZONE CONTRACT DIRECTIVE DOCUMENT (TD))	2. NO. : F3-8311-12
COUNT NO.:				19-0911-12
PRIORITY:	4. ESTIMATE OF TECHNICAL HOURS:	5. EPA SITE ID:	6. COMPLETION DA	TE: 7. REFERENCE INFO
HIGH	130	PA-789		
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			<u>3 wks after Q</u>	<u>A</u>
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2.) Submit samp	pling plan to EPA for appr	oval.		·
3.) Coordinate	Lab analysis.			
1.) Conduct on	and off site inspection and	d sampling.		
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APPENDIX B

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APPENDIX C

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II. INTRODUCTION

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This report presents the results of an investigation by Dunn Geoscience Corporation of the nature, sources, and extent of ground water contamination at the site of the Warehouse 81 Limited Partnership Plant situated northwest of the Village of Mausdale in Valley Township, Montour County, Pennsylvania. The report also presents an inventory and classification of on-site wastes, cost-benefit analysis of remediation options, and a remedial clean-up plan.

The Warehouse 81 plant is engaged in the secondary recover of copper from piles of finely divided metal wire scraps known as "fluff", with plans for future recovery of plastic from the insulation associated with the fluff. The waste fluff piles were generated by the original site operator, the now bankru M. W. Manufacturing Corp. M. W. operated both mechanical and chemical processes for the primary recovery of copper from whol scrap wire. As part of the chemical processes, M. W. Manufacturing Corp., used chlorinated solvents which were apparently dumped on-site when spent. These solvents are the primary contaminants in the site area. Unlike M. W. Manufacturing, Warehouse 81 has operated the plant with mechanical processes only. All ground water contamination in the site area, therefc stems from the activities of the previous operator, M. W. Manufacturing Corp.

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- 14 - 14 - 14 - 14 - 14 - 14 - 14 - 14									TABLE	I-1			i	-	1	ouoy:	3420	2721
	SAMPLE		Summe	ary of s t pH, w	elected hich is	Paramete dimensio	rs from nless,	PAI TRYC and Q	Ground Ka itiles wh	ater Sam Nich are	ples - (F ppb)	aramete	rs all	mg/l		<u> </u>	2065) 2	[10[:
LUCATION	NUMBER	DATE	Hq	Alk	s04	5	A1	H	Zn	Cu	Fe	Mn	TDS	TCE	PCE	- נעסדָנו 2'נ	 - נין - נין י נ'נ	901V
W3(PaDER/1)	0503083	3/24/82		·										>1000	-1000	>200	21	τ
WIS (PableN1)	0203080	3/24/82	7.7	120	15	32	0.13		0.89	0.36	12.58	0.26	216					
W4 (PaDERU2)	0503084	3/24/82												>800	>1000	72	17	•
M4 (PaDEN 2)	0503081 .	3/24/82	7.4	160	20	1 4	0.18		0.22	0.23	1.07	0.08	298					
1.15 (PaDERIA)	0503095-6	4/13/82						2						>3500	>6500	>500	>1000	2.5
I IS (PaDERIA)	0503097	4/13/82	7.3	148	45	16	0.06	< 05	0.04	0.08	1.34	0.26	498					*
i6(PaDEN 3)	0503085	3/24/82												27.	>1000	Ð	13	•
46 (Pateru 3)	0503082	3/24/82	7.6	144	25	11	0.09	فلدويد ورز	0.04	0.07	0.04	0.02	280					f .
Unoccupied House ug Well	0503130	5/20/82	7.8	174	30	12	0.15	<u>ب</u> 0.0185	0.14	0.15	0.10	0.03	302	>400	×100]
Danville Area 'ch./Dist. Well	0503092-3	4/13/82												â	QN	ÛX	Î	E E
Danville Area Sch. Dist. Well	0503094	4/13/82	7.2	142	65	37	0.02	<. 015	0.14	0.04	0.12	0.03	280					
renuDot Trailer Well	0503131	5/20/82	7.6	152	30	198	0.06	0.1585	0.14	0.09	9,81	0.43	758	QN	Q	QN	QN	.
Jope Residence Well	က် ယူ0503139	7/6/82	7.8	110	30	4	1	<. 0ì5	0.03	0.07	0.02	0.02	270	QN	. ^Q	QN	QN	.
spring SE of Cope Residence	0503140	7/6/82	7.6	106	25	28		<. 0 ¹ 5	0.01	0.03	0.02	0.01	304	QX	QN	QN	QN	,
wadside Park Well	1503138	7/6/82	7.5	196	,	22	1	المزمو	•	,	0.21	,	,	s	4		QN	.
farvey Moll Nell So. Roadside Pk.	1 1124944	8/30/82						مثلثة مد:						ossible Trace	4	QN	QN	•
fra Baumr Well So, Roalside PK	1424945	8/30/82												QN	2	QN	ũ	1
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	ameter	, TCI					s	=												
•	- (Par	Mn	1.31	0.85	1.23	•				•										
	nalyses e ppb)	Fe	14.22	20.6	21.24	8.79														
	ample A hich ar	- Cu	20.125	122.5	3.35	0.86														
	E F-2 haste S atiles v	Tu	5.75	2.93	2.8	. 53													 :	-
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	aters fi ionless	A1	1.78	0.98	0.13	•														Ň
	l parame dimensi	ដ	145	74	70	20													1	+
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-	DATE		4/03/19	3/24/8	4/03/79	3/24/8:														
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	SAMPI		05121	0520(05121	0512(2503/													
in the second se	MPLE MPLE		s hate Pool adj. Lif pile ?	s hate Pool adj. 1 f pile	st thate Discharge . Fluff-wetweather tch front of Plant	a-hate Discharge . Eluff-wetweather tsh front of Plant	y wurdaent	ryundment				~		AP			[



LABORATORY ANALYSIS REPORT										
	Lancaster Lab	01At011CS==connonate	D	LLI Sample No	TL 209231					
	Dunn Geoscience Corpora 18 S. 18th Street Camp Hill, PA 17011	ation		Date Reported Date Submitted Discard Date P. O. No. Collected by	11/26/8 11/ 12/2678 Client					
1 - 12. 1	E.P. Toxicity of Warehouse 81 (19	f JRP # 4 "Paper g.pink paper pile	Pile" reproces	sed fluff						
	ANALYSIS	AS RECEIN	/ED ·		LAB CODE					
	Arsenic Barium Cadmium Chromium	0.004 0.1 1 0.044 1 < 0.05	mg/l mg/l mg/l mg/l		245-54-(246-54-(249-54-(251- 54- (
	Copper Lead Mercury	31.5 0.43 < 0.001	mg/l mg/l mg/l		253-54-(255-54-(259-54-(
	Selenium Silver	< 0.2 < 0.01	mg/l mg/l	·	264-54-(266-54-(
	The above analyses were submitted waste prepare	e performed on an ed according to t	EP Toxic	ity leachate o ure specified	f the in					
5	Leachate Preparation: 140.5 grams waste Initial pH = 5.6	2248 ml distill Controlling 1	led water the leacha	te pH at 5.0 du	uring the					
, Taraki	24 hour agitation 0.5 N acetic acid filtared through final volume of i	n period as preso d. The 2259 ml o a 0.45 micron me 2810 ml with dist	ribed ent of this in mbrane fi tilled wat	ailed adding termediate lead lter and brough er to form the	ll ml chate was ht to a					
a	'EP Leachate' on The characteristic of (contaminant concentrat: maxima (100 X's Primar)	which the analys EP Toxicity is de ions (mg/l) in th y Orinking Water	ses were p etermined ne leachat Standards	erformed. by whether any e exceed the fo): Arsenic	of the pllowing 5.0:					
4	Barium 100.0; Cadmium Selenium 1.0; Silver Toxaphene 0.5; 2,4-D	1.0; Chromium 5. 5.0; Endrin 0.0 10.0; 2,4,5-TP 1.	.0; Lead 5)2; Lindan .0	.0 ; Mercury e 0.4; Methoxy	0.2; chlor 10.					
	The above analyses ind : characteristic of EP To : p. 33122 :	icate that the su oxicity as define	ubmitted w ed in Sect	aste DOES NOT (ion 261.24 Fe	exhibit t d Reg 198					
	: 1 COPY TO Dunn Geosc	ience Corporation	n Attn:	Jeff Peffer						
	Samp Prep 125.00			000106						
	INV TO- Dunn Geoscien	ce Corporat 245.0	00 1213 Re La	spectfully sub ncaster Labora	mitted tories, 1					
	MAIN LABORATORY: 2425 New Holland Pike, Lancaster FRANKLIN DIVISION:	r, Pa. 17(AR0001	06 R	BRAF BRISH						
			Rr	Dert F. Beisel	, M.A.,					

		•		12:	10:03- 40800 - 4	- T Z
4	LABORA	TORY	ANAL	YSIS I	REPORT	
Ę	∢} Lancaster Lat	boratori	ESincorporati	ED	LLI Sample No	TL 20922
	Dunn Geoscience Corpor 18 S. 18th Street Camp Hill, PA .17011	ration ,		•	Date Reported Date Submitted Discard Date P. O. No. Collected by	11/26/0 11/26/0 12/26/0 Client
	 E.P. Toxicity e 1171 Composite ANALYSIS)f JRP # 1 Warehous	A large se 81 NS RECEI	.carbon . VED	black pile	
	Arsenic Barium Cadmium Chromium Copper	· · · · · · · · · · · · · · · · · · ·	0.004 0.1 0.005 0.05 54.4	mg/1 mg/1 mg/1 mg/1 mg/1 mg/1	X	245-54-(246-54-(249-54-(251-54-(253-54-(253-54-(253-54-(
	Mercury Selenium Silver	< < <	0.001 0.2 0.01	mg/1 mg/1 mg/1		259-54-1 259-54-1 264-54-1 266-54-1

The above analyses were performed on an EP Toxicity leachate of the submitted waste prepared according to the procedure specified in -Federal Register May 19 1980 p. 33127. Leachate Preparation:

146.0 grams waste / 2336 ml distilled water

Initial pH = 5.0 Controlling the leachate pH at 5.0 during the 24 hour agitation period as prescribed entailed adding 5 ml 0.5 N acetic acid. The 2341 ml of this intermediate leachate was filtered through a 0.45 micron membrane filter and brought to a final volume of 2920 ml with distilled water to form the 'EP Leachate' on which the analyses were performed.

The characteristic of EP Toxicity is determined by whether any of the contaminant concentrations (mg/l) in the leachate exceed the following maxima (100 X's Primary Drinking Water Standards): Arsenic 5.0; Barium 100.0; Cadmium 1.0; Chromium 5.0; Lead 5.0 ; Mercury 0.2; Selenium 1.0; Silver 5.0; Endrin 0.02; Lindane 0.4; Methoxychlor 10. Toxaphene 0.5; 2,4-D 10.0; 2,4,5-TP 1.0

The above analyses indicate that the submitted waste DDES exhibit the characteristic of EPEToxicity as defined in Section 261.24 Fed Reg 198 P. 33122.

1 COPY TO

PY TO Dunn Geoscience Corporation

Attn: Jeff Peffer

Samp Frep 125.00

000107

INV TO- Dunn Geoscience Corporat 245.00 1213 Respectfully submitted

Lancaster Laboratories, I

MAIN LABORATORY: 2425 New Hoiland Pike, Lancaster, Pa. AR000107

Rokeo F Breise

LLI Sample No TL 209	LABORATORY ANALYSIS REPORT											
	25											
Dunn Geoscience CorporationDate Reported11/218 S. 18th StreetDate Submitted11/2Camp Hill, PA17011P. O. No.Collected byClient) 267 :											
E.P. Toxicity of JRP # 2 small Carbon black piles												
ANALYSIS AS RECEIVED LAB C	:OC											
Arsenic < 0.004 mg/l	4- 4- 4- 4-											
Lead 13.3 mg/1 255-5	A-											

The above analyses were performed on an EP Toxicity leachate of the submitted waste prepared according to the procedure specified in Federal Register May 19 1980 p. 33127.

5.0

0.01

<

Leachate Preparation:

Selenium

Silver:

147.0 grams waste / 2352 ml distilled water

Initial pH = 4.4 Controlling the leachate pH at 5.0 during the 24 hour agitation period as prescribed entailed adding O ml 0.5 N acetic acid. The 2352 ml of this intermediate leachate was filtered through a 0.45 micron membrane filter and brought to a final volume of 2940 ml with distilled water to form the 'EP Leachate' on which the analyses were performed.

mg/1

ma/1

The characteristic of EP Toxicity is determined by whether any of the contaminant concentrations (mg/1) in the leachate exceed the following maxima (100 X's Primary Drinking Water Standards): Arsenic 5.0; Barium 100.0; Cadmium 1.0; Chromium 5.0; Lead 5.0 ; Mercury 0.2; Selenium 1.0; Silver 5.0; Endrin 0.02; Lindane 0.4; Methoxychlor 10. Toxaphene 0.5; 2,4-D-10.0; 2,4,5-TP 1.0

The above analyses indicate that the submitted waste DOES exhibit the characteristic of EPEToxicity as defined in Section 261.24 Fed Reg 198 p. 33122

1 COPY TO

Dunn Geoscience Corporation Attn: Jeff Peffer

264-54-

266-54-

Samp Prep 125.00

000103

INV TD- Dunn Geoscience Corporat 245.00 1213 Respectfully submitted

MAIN LABORATORY: FRANKLIN DIVISION:

2425 New Holland Pike, Lancaster,

AR000108

ROBELT F BEISU

Lancaster Laboratories, 3
		•
1	LABORATORY ANALYSIS REPORT	
1	LI_I Sample No TL 2	07225
30	Dunn Geoscience CorporationDate Reported1118 S. 18th StreetDiscard Date12Camp Hill, PA17011P. O. No.Collected byClie	/26/E / 4/E :/26/E
	E.P. Toxicity of JRP # 2 small carbon black piles	,,,,
<u> </u>	11/1 Composite Warehouse 81	
	ANALYSIS AS RECEIVED LAE	
1	Arsenic < 0.004 mg/l 245 Barium < 0.1 mg/l 246 Cadmium 0.016 mg/l 249 Charmium < 0.05 mg/l 251	-54-(-54-(-54-(
	Copper 114. mg/1 253	-54-
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	-54-
	Selenium < 0.2 mg/1 264	-54-
	Silver < 0.01 mg/l 266	-54-
	The above analyses were performed on an EP Toxicity leachate of the submitted waste prepared according to the procedure specified in Federal Register May 19 1980 p. 33127. Leachate Preparation: 147.0 grams waste / 2352 ml distilled water Initial pH = 4.4 Controlling the leachate pH at 5.0 during 24 hour agitation period as prescribed entailed adding 0 m 0.5 N acetic acid. The 2352 ml of this intermediate leachate filtered through a 0.45 micron membrane filter and brought to final volume of 2940 ml with distilled water to form the 'EP Leachate' on which the analyses were performed. The characteristic of EP Toxicity is determined by whether any of t contaminant concentrations (mg/l) in the leachate exceed the follow maxima (100 X's Primary Drinking Water Standards): Arsenic 5.0; Barium 100.0; Cadmium 1.0; Chromium 5.0; Lead 5.0 ; Mercury 0.2; Selenium 1.0; Silver 5.0; Endrin 0.02; Lindane 0.4; Methoxychlor Toxaphene 0.5; 2,4-D 10.0; 2,4,5-TP 1.0	the was a he ing 10
	The above analyses indicate that the submitted waste DOES exhibit t characteristic of EP Toxicity as defined in Section 261.24 Fed Reg p. 33122	he 19(
	2 1 COPY TO Dunn Geoscience Corporation Attn: Jeff Peffer	
	Samp Prep 125.00	1
	INV TO- Dunn Geoscience Corporat 245.00 1213 Respectfully submitte ARAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	d 19,
	MAIN LABORATORY: 2425 New Holland Pike, Lancaster, ROBEL: F BEISU	.

111	I LAE	IOFATO	RY:	
25	New	Holland	Pike,	Lancaster,

		12:11:3(J = 40800 - 4 - 1	7
LABORATO	RY ANAL	YSIS REF	PORT	
'ancaster Labora	tories _{meonpuna}	L	I Sample No TL 2	O .
eoscience Corporation 18th Street 111, PA 17011	n	D D D D C	ate Reported ate Submitted 17 iscard Date 12 . O. No. ollected by Clie	2 2 2
E.P. Toxicity of JRI Warehouse 81 (east s	P # 3 bluish side large c	a salt deposi arbon pile)	t	-
SIS	AS RECEI	VED	LAB	ŀ
i⊂ ຫ ເບຫ ກiບຫ ⊇r	< 0.004 0.2 0.015 < 0.05 203. 15.3*	mg/l mg/l mg/l mg/l mg/l	245 246 249 251 253 253	
ury nium er	< 0.001 < 0.2 < 0.01	mg/1 mg/1 mg/1	259 264 266	-

above analyses were performed on an EP Toxicity leachate of the mitted waste prepared according to the procedure specified in May 19 1980 p. 33127. eral Register chate Preparation:

147.3 grams waste / 2357 ml distilled water

Initial pH = 4.90 Controlling the leachate pH at 5.0 during 24 hour agitation period as prescribed entailed adding 15 ml 0.5 N acetic acid. The 2372 ml of this intermediate leachate filtered through a 0.45 micron membrane filter and brought to final volume of 2946 ml with distilled water to form the 'EP Leachate' on which the analyses were performed.

e characteristic of EP Toxicity is determined by whether any of th ntaminant concentrations (mg/l) in the leachate exceed the followi wima (100 X's Primary Drinking Water Standards): Arsenic 5.01 Parium 100.0; Cadmium 1.0; Chromium 5.0; Lead 5.0 ; Mercury 0.2; Blenium 1.0; Silver 5.0; Endrin 0.02; Lindane 0.4; Methoxychlor Toxaphene 0.5; 2,4-D 10.0; 2,4,5-TP 1.0

The above analyses indicate that the submitted waste DOES exhibit th characteristic of EP Toxicity as defined in Section 261.24 Fed Reg. · P. 33122

1 COPY TO Dunn Geoscience Corporation

Attn: Jeff Peffer

· Robser F BEISU

Samp Prep 125.00

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INV TD- Dunn Geoscience Corporat 245.00 1213 Respectfully submitted Lancaster Laboratories



AROOOIIO MAIN LABORATORY: 2425 New Holland Pike, Lancaster, EDANKE IN DURCHAN

09:09:50- 40685 - B - 1 Y Ì LABORATORY ANALYSIS REPORT Lancaster Laboratories LLI Sample No SW 200096 Date Reported 15/13/8 Date Submitted Dunn Geoscience Corporation 11/ 2/82 Discard Date 1/12/8 18 S. 18th Street P. D. No. Camp Hill, PA 17011 JRP # 6 Dil Sludge Largest of 3 tanks 11/1/82 AS RECEIVED LAB CODE ANALYSIS 0.5 145-54-0 < ppm Arsenic 146-54-0 < 5. ppm Barium 0.2 149-54-0 < ppm Cadmium 1. 151-54-0 ppm Chromium 11.4 PPm 153-54-0 Copper 22.3 ppm 155-54-0 Lead 0.05 PPm 159-54-0 Mercury 0.5 < ppm 164-54-0 Selenium < 0.2 Silver PPM 166-54-0 < 174-70-0 5. PCB'S PPm Sulfuric/Flor. Method < 0.05 % by wt. 195-56-0 Ash see below 430-52-0 Flash Point for Liquids 18820. BTU/16. 999-24-C BTU/1b 999-24-0 0.05 % Organic Chlorine % 999-24-0 50.0 Sulfur

Flashpoint: No Flash observed. Test flame extinguished at 208F. Flashpoint was determined using Pensky Martens closed cup apparatus.

1 COPY TO Dunn Geoscience Corporation Attn: Jeff Peffer

Samp Prep 25.00

MAIN LABORATORY:

INV TD- Dunn Geoscience Corporat 320.85 1213 Respectfully submitted AR000/// Lancaster Laboratories, In

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09:10:45- 40685 - 8 - 1 Y

LABORATORY ANALYSIS REPORT

Lancaster Laboratories Incomponated

LLI Sample No SW 208898

Date Reported 12/13/1 Date Submitted 11/ 7/82 Discard Date 1/12/83 P. D. No.

Dunn Geoscience Corroration 18 S. 18th Street Camp Hill, PA 17011

JRP # 7 Dil Sludge (middle of 3 tanks)

ANALYSIS AS RECEIVED LAB CODE 145-54-028 Arsenic 0.5 PPm 146-54-012 Barium < 5. ppm 149-54-01(< 0.2 Cadmium PPM 1. 151-54-01(PPM Chromium 60.7 153-54-01(Copper PPM 30.1 155-54-01(Lead PPM 0.05 159-54-021 Mercury PPm < 164-54-03 Selenium 0.5 PPm < 0.2 166-54-01(Silver ppm PCB'S < 5. 174-70-06 PPm

Sulfuric/Flor. Method

Ash	< 0.05	% by wt.		195-56-
Flash Point for Liquids			see below	430-52-02
BTU/15 -	19250.	BTU/16.		999-20-01
Organic Chlorine	0.05	% by wt.		999-20-03
Sulfur	0.03	% by wt.		999-20-01

Flashpoint: No Flash observed. Test flame extinguished at 215F. Flashpoint was determined using Pensky Martens closed cup apparatus.

1 COPY TO Dunn Geoscience Corporation Attn: Jeff Peffer

000112

Samp Prep 25.00

and the second supervision and the second second

INV TO- Dunn Geoscience Corporat 320.85 1213 Respectfully submitted Lancaster Laboratories, Inc

MAIN LABORATORY: 2425 New Holland Pike, Lancas' AR000,112

POBRIT F BEISEL

LABORATORY ANALYSIS REPORT

Lancaster L'aboratories Incomponated LLI Sample No SW 208897 Date Reported 12/13/82 Date Submitted 11/ 2/85 Junn Geoscience Corporation Discard Date 1/12/83 18 S. 18th Street P. O. No. Camp Hill, PA 17011 JRP # 8 Dil_Sludge (from smallest of 3 tanks) Warehouse 81 LAB CODE AS RECEIVED ANALYSIS 145-54-028 0.5 < PPM Arsenic 146-54-012 < 5. Barium PPm 149-54-010 < 0.2 Cadmium ppm 1. 151-54-010 < ppm Chromium 153-54-010 87.4 PPm Copper 155-54-010 748. PPM Lead 159-54-028 0.05 Mercury < PPm 164-54-030 < 0.5 ppm Selenium 166-54-010 < 5.0 ppm Silver 174-70-060 < 5. PPm PCB'S Sulfuric/Flor. Method 195-56-006 % by wt. 0.64 Ash 999-20-011 BTU/15. 821. BTU/16 999-20-033 0.43 % by wt. Organic Chlorine < 0.01 % by wt. 999-20-012 Sulfur Attn: Jeff Peffer Dunn Geoscience Corporation 1 COPY TO 000113

Samp Prep 25.00

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INV TD- Dunn Geoscience Corporat 295.85 1213 Respectfully submitted Lancaster Laboratories, Inc

AR000113

MAIN LABORATORY: 2425 New Holland Pike, Lancaster, FRANKLIN DIVISION:

ROSSIG F BRISEL

LABORATOF	RY ANALY	SIS RE	EPORT	
: Lancaster Laborat	OVICS INCOMPOHATES	þ	LLI Sample No S	W 219835
unn Geoscience Corporation E S. 18th Street Camp Hill, PA 17011	ч		Date Reported Date Submitted Discard Date P. O. No.	2/ 8/83 1/27/83 2/15/83
- Warehouse 81 Carbon JRP # 1A JRP # 1B	black pile extra sample	composite		
A ALYSIS	AS RECEIV	ED		LAB CODE
) 1 (Soxhlet Ext.) 7 ichloroethylene Tetrachloroethylene 1 1,2-Trichloroethane	1.47 26. 5.0 1340:	% ppm % by wt. ppm	· · · ·	236-76-03000 418-36-00500 420-36-00500 999-36-00500
Analytical recovery data ar l g of sample was extracted analysis of the extract.	e not availa for 2 hrs.	ble for t with 20 m	his sample matri 1 of methanol fo	ix. Dlowed by
1 COPY TO Dunn Geoscience	Corporation	Attn:	Jeff Peffer	
•		-		-
· · ·				
	•.			
2				
E.				
			0001	14
Samp Prep 15.00 INV TD- Dunn Geoscience Co	prorat 60.0	00 1213 Re	spectfully subm	itted
MAIN LABORATORY: 2425 New Holland Pike, Lancaster, Pa. 17 FRANKLIN DIVISION: P.O. Eox 467, 5424 Buchanan Trail East Waynesboro, PA 17268 • (717) 762-9127	7601 • (717) 655-2301 Å R O O O	La 4 ;J. Ir	Wilson Hershey	B.A. Mgr. ysis Program

09:07:54- 40685 - 8 - 1 Y LABORATORY ANALYSIS REPORT Cancaster Laboratories...componated LLI Sample No SW 208891 Date Reported 12/13/82 Date Submitted Geoscience Corporation • 11/ 2/82 Discard Date 3 3. 18th Street 1/12/83 P. O. No. mp Hill, PA 17011 Collected by Client JRP # 1 Large Carbon Black Pile 11/1 Warehouse 81 Composite JRP # 1A & JRP # 1B AS RECEIVED LAB CODE JALYSIS 145-54-02800 0.9 . enic PPM 146-54-01200 168. PPM arium 149-54-01000 1.0 ppm mium 356. 151-54-01000 ppm omium % by wt. 0.864 153-54-01000 JPPer 7.40 % by wt. 155-54-01000 ad 0.05 ppm 159-54-02800 : CUTY < 1. 164-53-03000 .enium PPm 1.9 PPm 166-54-01000 lver

_ COPY TO

Dunn Geoscience Corporation

Attn: Jeff Peffer

000115

mp Prep 10.00 .

V TO- Dunn Geoscience Corporat 158.00 1213 Respectfully submitted Lancaster Laboratories, Inc.

AR000115

MAIN LABORATORY: 2425 New Holland Pike, Lancaster, Pa. FRANKLIN DIVISION: P.O. Box 467, 5424 Buchapan Trail Fast

FORSAT FILTISEL

Rohert F. Beisel, M.A., Mar.

07:08:16- 40685 - 8 - 1 Y

LABORATORY ANALYSIS REPORT

	Lancaster Laborate	WICS INCOMPOHATED	LLI Sample t	10 SW 208892
	Junn Geoscience Corporation 18 S. 18th Street Camp Hill, PA 17011		Date Report Date Submit Discard Date P. O. No.	ed 12/13/02 ted 11/ 2/82 = 1/12/03
:			Collected b	y LLI#Y
:	JRP # 2 Composite of Warehouse 81 11/1/82	Small Carbon	Black Piles	
}	ANALYSIS	AS RECEIVED		LAB CODE
nang tang	Arsenic Barium Cadmium Chromium	1.6 Pi 146. Pi 1.2 Pi 299. Pi		145-54-0280(146-54-0120 149-54-0100 151-54-0100
	Lead	7.87 🦥 🕺	by wt:	153-54-0100
• •	Mercury Selenium Silver	< 0.05 P < 1. P 0.5 P	Pm Pm Pm	159-54-0280 164-53-0300 166-54-0100
1.44 Y		·		
2	1 CORV TO Dupp Coossigned	Corporation	Attn: Teff Peffer	
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SHEE.				
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	Samp Prep 10.00			
观:	INV TO- Dunn Geoscience Com	rporat 158.00	1213 Respectfully e Lancaster Labo	pubmitted pratories, Inc
S.	MAIN LABORATORY: 2425 New Holland Pike, Lancaster, Pa. 1760	^ν λ ⁽⁷¹⁷⁾ 656-2301	Kerster F. F. F.	·4-
22	FRANKLIN DIVISION:	HILDON110	Robert F. Beis	el, M.A., Mar

09:08:38- 40685 - B - 1 Y

LABORATORY ANALYSIS REPORT

Lancaster Laboratories Incurronmated

Dunn Geoscience Corporation 18 S. 18th Street Camp Hill, PA 17011 LLI Sample No SW 208893

Date Reported 12/13/82 Date Submitted 11/ 2/82 Discard Date 1/12/83 P. D. No. Collected by Client

JRP # 3 Bluish Salt Deposit on Surface Warehouse 81 (eastside large carbon pile)

ANALYSIS	AS RECEIVED	LAB CODE
Arsenic	1.7 ppm	145-54-0280
Barium	157. ppm	146-54-0120
Cadmium	1.4 PPm	149-54-0100
Chromium	357. PPm	151-54-0100
	2.11 % by wt.	153-54-0100
	6.87 % by wt:	155-54-0100
Mercury	< 0.05 ppm	159-54-0280
Selenium	< 1. ppm	164-53-0300
Silver	3.8 PPm	166-54-0100

1 COPY TO

TO Dunn Geoscience Corporation

Attn: Jeff Peffer

000117

Samp Prep 10.00

INV TO- Dunn Geoscience Corporat 158.00 1213 Respectfully submitted Lancaster Laboratories, Inc.

MAIN LABORATORY: 2425 New Holland Pike, Lancaster, Pa. 1 FRANKLIN DIVISION: P.O. Box 467, 5424 Buchagan Trail Fast

AR000117

FOBELF FREISEL

Rohert F. Beisel. M.A.. Mar.

LABORATORY ANALYSIS REPORT 1. Lancaster Laboratories INCORPORATED LLI Sample No SW 208894 Date Reported 15/13/05 Hunn Geoscience Corporation Date Submitted 11/ 2/82 5. 18th Street Discard Date 1/12/83 17011 Camp Hill, PA P. D. No. Collected by LLI#y JRP # 4 "Paper Pile" Warehouse 81(1g. pink paper pile reprocessed fluff H ALYSIS LAB CODE AS RECEIVED : senic 145-54-02800 1.8 PPM J "ium 146-54-01200 272. ppm Cadmium 149-54-01000 4.0 ppm .hromium 103. PPM 151-54-01000 : Der 1:88-me % by ut 153-54-01000 _ead: 3-15 *** % bysut 155-54-01000 lercury 0.17 PPm 157-54-02800 1. 🕴 enium < ppm 164-53-03000 14.1

LI COPY TO Dunn Geoscience Corporation

Attn: Jeff Peffer

09:09:00 - 40685 - 8 - 1 Y

Eamp Prep 10.00

MAIN LABORATORY:

FRANKLIN DIVISION:

P.O. Box 467, 5424 Buchanan Trail East

Waynesboro, PA 17268 • (717) 762-9127

TD- Dunn Geoscience Corporat 158.00 1213 Respectfully submitted Lancaster Laboratories, Inc.

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KOPERT F F. F. F. F. S. S.L.

Robert F. Beisel, M.A., Mgr.

000118

166-54-01000

PPm

2425 New Holland Pike, Lancaster, Pa. 17601 • (717) 656-2301

S_-ver

01	GROUND WATER QUALITY	Y SURVEY			
OSAMPLE	MELL CC	NDUCTIVITY	COMMENT	TEMP.	SAMPLING TECHNIQUE
. DGC 1 (MW7)	New MW PennDot Prop.	560	Sulfide Oder	11°C	podund
DGC 2 (MW2)-	New MW RR tracks & fence corner	420		10.5°C	pumped
DGC 3	PennDot Trailer Well	066	Sulfide Oder	12.0°C	pumped
DGC 4 (MW9)	New MW RR tracks-east of plant	730		12.0°C	pumped
DGC 5 (MW10)	Sp. RR tracks closest to plant	440		10.5°C	grab
9 DGC 6	Sp. RR tracks furthest from plant-large sycamore	390		7°C	grab
DGC 7	Barn Dug Well (at unoccupied house)) 270		8°C	bailed
DGC 8	House dug well(unoccupied house)	490		7.5°C	bailed
DGC 9 (MW1)	Plastic 6" MW prop corner	580		9.5°C	bailed
DGC 10 (MW5)	At plant make up water	780		၁ °6	spigot
DGC 11 (MW6)	Well at hog pen	415		9.5°C	spigot
DGC 12 (MW4)	Well near plant	NR		NR	bailed
DGC 13 (MW3)	Well near pole	NR		NR	bailed
DGC 14	Cope House well	NR		NR	spigot
DGC 15	School	NR		NR	spigot
DGC 16 (MM8)	Well at plant entrance	650		11.5°C	pumped
9					

JANUARY 25-26, 1983

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LABORATORY ANALYSIS REPORT						
	OVIESINCORPORAT	٤٥	LLI Sample No H	W 219819		
in Geoscience Corporation lo S. 18th Street Camp Hill, PA 17011			Date Reported Date Submitted Discard Date P. O. No.	2/ 8/83 1/27/83 2/15/83		
DGC-1 1/25/83 alo	ng road					
ANALYSIS	AS RECEIV	VED		LAB CODE		
<pre>enclphthalein Alk. Total Alkalinity `loride `pper Lead `richloroethylene trachloroethylene t.ans-1,2-Dichloroethene ',1,2-Trichloroethane</pre>	00000. 171. 18. < 0.03 0.15 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	mg/1 mg/1 mg/1 mg/1 mg/1 ppb ppb ppb ppb	•	201-76-00400 202-76-00400 224-76-00700 253-44-01100 255-44-01100 418-36-00500 420-36-00500 999-36-00500		
Sample for lead and copper nple for volatile organic eadspace. Sample C1 and COPY TO Dunn Geoscience	field filte s collected Alk collect Corporatio	red and a in teflo ed in gla n Attr	acidified. on-sealed glass v ass without prese n: Jeff Peffer	ials without rvation.		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
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ない かん しょう			000120			
INV TO- Dunn Geoscience Co MAIN LABORATORY: 2425 New Holland Pike, Lancaster, Pa. 17 FRANKLIN DIVISION:	orporat 57. 1801 • (717) אין 1997 אין 1997 אין 1997	00 1213 1 0 2 0	Respectfully subm Lancaster Laborat J.Willow H	itted ories, Inc.		

14:08:50-44698 - 17 - 1 Y

LABORATORY ANALYSIS REPORT

, Lancaster Laboratories we componing

L n Geoscience Corporation 8 S. 18th Street : p Hill, PA 17011

LLI Sample No HW 219820

Date Reported 2/ 8/83 Date Submitted 1/27/83 Discard Date 2/15/83 P. D. No.

DGC-2 1/25/83 Along tracks

NALYSIS	AS RECEI	VED		LAB CODE
Phenolphthalein Alk. Fotal Alkalinity Loride Jupper ead Lichloroethylene	0. 145. 25. < 0.03 0.09 < 0.5	mg/l mg/l mg/l mg/l mg/l	•	201-76-00400 202-76-00400 224-76-00700 253-44-01100 255-44-01100 418-36-00500
trachloroethylene trans-1,2-Dichloroethene 1,2-Trichloroethane	< 0.5 < 0.5 < 0.5	ььр ьър ьър		420-36-00500 999-36-00500 999-36-00500

Sample for lead and copper field filtered and acidified. mple for volatile organics collected in teflon-sealed glass vials without neadspace. Sample Cl and Alk collected in glass without preservation.

Dunn Geoscience Corporation Attn: Jeff Peffer L COPY TO

MAIN LABORATORY:

2425 New Holland Pike, Lancaster, Pa

000121

J. Wilson Hersley 1 Mar

INV TD- Dunn Geoscience Corporat 57.00 1213 Respectfully submitted Lancaster Laboratories, Inc.

AR00012

LABORATOR	r Anal	1212 K	EPORI	
 Cancaster Laboral 	toriescorporat	ED	LLI Sample No 6	W 219822
nn Geoscience Corporation . 18th Street Hill, PA 17011)		Date Reported Date Submitted Discard Date P. O. No.	2/ 8/83 1/27/83 2/15/83
DGC-4 1/25/83 Alor	ng tracks nea	ar spring		
YSIS	AS RECEI	VED		LAB CODE
<pre>Proof phthalein Alk. t 1 Alkalinity Nuride Poper i i hloroethylene trachloroethylene i 5-1,2-Dichloroethene 2-Trichloroethane</pre>	0. 223. 74. < 0.03 < 0.05 4900. 12000. 6200. 300.	mg/1 mg/1 mg/1 mg/1 mg/1 ppb ppb ppb		201-76-00400 202-76-00400 224-76-00700 253-44-01100 418-36-00500 420-36-00500 999-36-00500 999-36-00500
Le for Lead and Copper Diatile organics collected Dace. Sample for Cl'and Al CUPY TO Dunn Geoscience	field filte i in teflon k collected Corporatio	red and a sealed gla in glass n Attn	cidified. Sample ass vials without without preserva : Jeff Peffer	for thead stion.
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		. *	•	
Numera de la constante			00	0122
MAIN LABORATORY: 2425 New Holland Pike, Lancaster, Pa. 17 FRANKLIN DIVISION: P.O. Box 467, 5424 Buchanan Trail East Waynesboro, PA 17268 + (717) 762-9127	57. 7601 • (717) 656-2301 AROO	00 1213 R L	espectfully subm ancaster Laborat J. Wilson Hershey Instrumental Anal	itted ories, Inc. Herely Joel & B.A. Mgr. ysis Program

14:09:14- 44698 - 17 - 1 Y LABORATORY ANALYSIS REPORT Lancaster Laboratories Incomponanted LLI Sample No WW 219821 Date Reported 2/ 8/83 Date Submitted 1/27/83 -n Geoscience Corporation Discard Date 2/15/83 3 5. 18th Street amp Hill, PA 17011 P. 0. No. DGC-3 1/25/83 Penn Dot Well N. LYSIS AS RECEIVED LAB CODE nolphthalein Alk. Ö. mg/1201-76-00400 229. c al Alkalinity mg/l202-76-00400 217. mg/1224-76-00700 :hloride < 0.03 253-44-01100 mg/l: per 0.08 mg/1255-44-01100 _a d 418-36-00500 0.5 Trichloroethylene < PPD 420-36-00500 0.5 ppb *rachloroethylene < 0.5 999-36-00500 r ns-1,2-Dichloroethene PPb .,,,2-Trichloroethane 999-36-00500 < 0.5 ppb Sample for lead and copper field filtered and acidified. sample for volatile organics collected in teflon-sealed glass vials without adspace. Sample Cl and Alk collected in glass without preservation. -COPY TO Dunn Geoscience Corporation Attn: Jeff Peffer 000123 / TD-Dunn Geoscience Corporat 57.00 1213 Respectfully submitted Lancaster Laboratories, Inc. MAIN LABORATORY: 2425 New Holland Pike, Lancaster, Pa. 100 FRANKLIN DIVISION: P.O. Box 467, 5424 Buchanan Trail East Wayneshorn PA 17268 • (717) 762-9127 Jilson Hershey B.A. Mgr.

.montal Analysis Daal

14:10:03 - 44698 - 17 - 1 Y

LABORATORY ANALYSIS REPORT

1) Lancaster Laboratories INCORPORATED

Dunn Geoscience Corporation 8 S. 18th Street Jamp Hill; PA 17011

DGC-5 1/25/83 Spring # 1

NALYSIS

chloride

Copper

ead

Phenolphthalein Alk.

otal Alkalinity

richloroethylene

Tetrachloroethylene

_,1,2-Trichloroethane

rans-1,2-Dichloroethane

AS RECEIVED

mg/l

ma/1

mg/1

mg/1

mg/1

ppb

ppb

ppb

ppb

0.

138.

24.

110.

970.

0.03

0.05

2.7

24.5

LLI Sample No WW 219823

Date Reported 2/ 8/83 Date Submitted 1/27/83 Discard Date 2/15/83 P. O. No.

> LAB CODE 201-76-00400 202-76-00400 224-76-00700 253-44-01100 255-44-01100

418-36-00500 420-36-00500 999-36-00500 999-36-00500

ample for Lead and Copper field filtered and acidified. Sample for volatile organics collected in teflon sealed glass vials without head -pace. Sample for Cl and Alk collected in glass without preservation.

1 COPY TO Dunn Geoscience Corporation Attn: Jeff Peffer

000124

J. Wilson Hushey/120

24. Wilson Hershey B.A. Mgr. mimontal Analiata

VV TO-Dunn Geoscience Corporat 57.00 1213 Respectfully submitted Lancaster Laboratories, Inc.

MAIN LABORATORY: 2425 New Holland Pike, Lancaster, Pa. 17601 + (717) 656-2301 1 fefter hu FRANKLIN DIVISION: P.O. Box 467, 5424 Buchanan Trail East Waynesboro, PA 17268 • (717) 762-9127

LABORATORY ANALYSIS REPORT

() Lancaster Laboratories MCORFORATED

Nunn Geoscience Corporation 18 S. 18th Street Camp Hill, PA 17011

LLI Sample No WW 219824

Date Reported 2/ 8/83 Date Submitted 1/27/83 Discard Date 2/15/83 P. D. No.

DGC-6 1/25/83 Spring # 2

ANALYSIS AS RECEIVED LAB CODE Phenolphthalein Alk. 201-76-0040 Ö. ma/1Total Alkalinity 114. ma/1202-76-0040 Chloride 26. mq/1224-76-0070 Copper 0.03 253-44-0110 mq/1Lead 0.05 mq/1255-44-0110 418-36-0050 Trichloroethylene 0.6 ppb 7.4 420-36-0050 Tetrachloroethylene PPb trans-1,2-Dichloroethane < 0.5 999-36-0050 PPb < 0.5 1.1.2-Trichloroethane ppb 999-36-005C

Sample for Lead and Copper field filtered and acidified. Sample for volatile organics collected in teflon sealed glass vials without head space. Sample for Cl and Alk collected in glass without preservation.

1 COPY TO Dunn Geoscience Corporation Attn: Jeff Peffer

000125

14:10:30 - 44698 - 17 - 1 Y

2425 New Holland Pike, Lancaster, Pa FRANKLIN DIVISION

AR000125 MAIN LABORATORY:

INV TO- Dunn Geoscience Corporat 57.00 1213 Respectfully submitted Lancaster Laboratories, Inc.

J wilcon Heroley

LABORATORY ANALYSIS REPORT								
Cancaster Laborat	OVICS INCOMPORATE	• LL	I Sample No W	W 219825				
n Geoscience Corporation 5. 18th Street amp Hill, PA 17011		Da Da Di P.	te Reported te Submitted scard Date O. No.	2/ 8/83 1/27/83 2/15/83				
DGC-7 1/25/83 Dug	well at barn	ו						
LYSIS	AS RECEIV	VED		LAB CODE				
nolphthalein Alk. al Alkalinity hloride - per d richloroethylene =+rachloroethylene ns-1,2-Dichloroethene ,1,2-Trichloroethane	0. 74. 8. < 0.03 0.05 1.5 43. < 0.5 0.9	mg/l mg/l mg/l mg/l mg/l ppb ppb ppb		201-76-0040C 202-76-0040C 224-76-0070C 253-44-0110C 255-44-01100 418-36-00500 420-36-00500 999-36-00500				
ple for Lead and Copper olatile organics collected ce. Sample for Cl and Al	field filte I in teflon k collected	red and acid sealed glass in glass wi	ified. Sample vials withou thout preserv	for t head ation				
COPY TO Dunn Geoscience	· Corporatio	n Attn: J	eff Peffer					

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000126

57.00 1213 Respectfully submitted Dunn Geoscience Corporat 1 TO-Lancaster Laboratories, Inc.

MAIN LABORATORY: 2425 New Holland Pike, Lancaster, Pa. 17601 • (717) 656-2301 AR000126

FRANKLIN DIVISION: P.O. Box 467, 5424 Buchanan Trail East Wayneshorn PA 17268 • (717) 762-9127

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ry 6 J. Wilson Hershey B.A. Mgr.

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		14:1	1:20- 44698 - 1	7 - 1 Y
LABORATO	RY ANAL	YSIS F	REPORT	
, Cancaster Labora	tories incompose	TED	LLI Sample No	WW 219826
 Geosciénce Corporation S. 18th Street P Hill, PA 17011 	ז		Date Reported Date Submitte Discard Date P. D. No.	2/ 8/83 d 1/27/83 2/15/83
DGC-8 1/25/83 Dug	well at hse	•	· .	
ALYSIS	AS RECEI	VED		LAB CODE
<pre>>lphthalein Alk. >tal Alkalinity ride >a ar ad ichloroethylene : achloroethylene rans-1,2-Dichloroethene l,2-Trichloroethane</pre>	0. 180. 11. < 0.03 < 0.05 420. 160. 3.5 5.2	mg/1 mg/1 mg/1 mg/1 mg/1 ppb ppb ppb		201-76-00400 202-76-00400 224-76-00700 253-44-01100 255-44-01100 418-36-00500 420-36-00500 999-36-00500
I tile organics collected e. Sample for Cl and Al COPY TO Dunn Geoscience	d in teflon lk collected e Corporatic	sealed g i in glass on Att	lass vials witho s without preser n: Jeff Peffer	ut head vation.
		·		
			•	
				000127
NV TO- Dunn Geoscience C	orporat 57	.00 1213	Respectfully sub Lancaster Labora	omitted atories. Inc.
MAIN LABORATORY: 11: 2425 New Holland Pike, Lancaster, Pa. 1 FRANKLIN DIVISION:	7601 • (717) 666 2361	00127	J. Wilson Herste	m terchy/mga

14:11:47- 44698 - 17 - 1 Y

LABORATORY ANALYSIS REPORT

Lancaster Laboratories INCOMPORATED

unn Geoscience Corporation 18 S. 18th Street Camp Hill, PA 17011 LLI Sample No WW 219827

Date Reported 2/ 8/83 Date Submitted 1/27/83 Discard Date 2/15/83 P. O. No.

DGC-9 1/25/83 Well at fence cor.

	••••••	VED .	
Phenolphthalein Alk. Total Alkalinity Chloride Copper Lead Trichloroethylene fetrachloroethylene trans-1,2-Dichloroethene 1.1,2-Trichloroethane	0. 248. 7. < 0.03 < 0.05 6.1 470. 21. < 0.5	mg/l mg/l mg/l mg/l mg/l ppb ppb ppb	201-76-00400 202-76-00400 224-76-00700 253-44-01100 255-44-01100 418-36-00500 420-36-00500 999-36-00500 999-36-00500

Sample for Lead and Copper field filtered and acidified. Sample for volatile organics collected in teflon sealed glass vials without head space. Sample for C1 and Alk collected in glass without preservation.

1 COPY TO

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Dunn Geoscience Corporation

Attn: Jeff Peffer

000128

INV TD- Dunn Geoscience Corporat 57.00 1213 Respectfully submitted Lancaster Laboratories, Inc.

00128

MAIN LABORATORY: 2425 New Holland Pike, Lancaster, Pa. 17601 • (717) 6 FRANKLIN DIVISION:

J. Wilson Hershey B.A. Mgr

14:12:11 - 44698 - 17 - 1 Y

LABORATORY ANALYSIS REPORT

Cunn Geoscience Corporation 18 S. 18th Street Camp Hill, PA 17011

LLI Sample No WW 21982

Date Reported 3/8/1 Date Submitted 1/27/8 Discard Date 2/15/8 P. O. No.

DGC-10 1/25/83 Plant make up

Lancaster Laboratories meonsonated

ANALYSIS AS RECEIVED LAB CODE Phenolphthalein Alk. 0. mg/l201-76-(Total Alkalinity 146. mg/1202-76-(Chloride 80. mg/1224-76-(Copper < 0.03 mg/l253-44-(Lead 0.09 mg/1255-44-(Trichloroethylene 4000. PPD 418-36-(23000. Tetrachloroethylene PPb 420-36-(trans-1,2-Dichloroethene 400. ppb 999-36-(1,1,2-Trichloroethane 1350. PPb 999-36-(

Sample for Lead and Copper field filtered and acidified. Sample for volatile organics collected in teflon sealed glass vials without head space. Sample for Cl and Alk collected in glass without preservation.

1 COPY TO Dunn Geoscience Corporation Attn: Jeff Peffer

000129

Wilson Herony

INV TD- Dunn Geoscience Corporat 57.00 1213 Respectfully submitted Lancaster Laboratories, Inc

MAIN LABORATORY: 2425 New Holland Pike, Lancaster, Pa. FRANKLIN DIVISION:

A CONTRACTOR OF A CASE OF

Filter AR000129

14:12:35- 44698 - 17 - 1 Y

000130

T. Wilson Herehov R A

LABORATORY ANALYSIS REPORT

Lancaster Laboratories HINCORPORATED

Dunn Geoscience Corporation 18 S. 18th Street Camp Hill, PA 17011

P.O. Box 467, 5424 Suchanan Trail East

LLI Sample No WW 219829

Date Reported 2/ 8 Date Submitted 1/27/83 Discard Date 2/15/83 P. O. No.

DGC-11 1/25/83 Well at hog pen

ANALYSIS

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Phenolphthalein Alk. 00. mg/1201-76-00-Total Alkalinity 158. 202-76-00 mg/lChloride 10. mg/1224-76-00 Copper 0.03 253-44-01 mg/lLead 255-44-01 0.05 mg/1Trichloroethylene 418-36-00 29. ppb Tetrachloroethylene 420-36-00 1200. ppb trans-1,2-Dichloroethene 0.6 PPD 999-36-00 1,1,2-Trichloroethane 22. PPb 999-36-00!

AS RECEIVED

Sample for Lead and Copper field filtered and acidified. Sample for volatile organics collected in teflon sealed glass vials without head space. Sample for Cl and Alk collected in glass without preservation.

1 COPY TO Dunn Geoscience Corporation Attn: Jeff Peffer

INV TO- Dunn Geoscience Corporat 57.00 1213 Respectfully submitted Lancaster Laboratories, Inc. MAIN LABORATORY: MAIN LABORATORY: 2425 New Holland Pike, Lancaster, Pa. 17601 (717) 656 1291000130 Willen & FRANKLIN DIVISION:



LABORATOR	Y ANAL	14:1 YSIS F	2:59- 44698 - 17 REPORT	· - 1 Y · ·
' Lancaster Laborato	MICS MICON PORAT	ED	LLI Sample No	WU 219830
S. 18th Street Camp Hill, PA 17011			Date Reported Date Submitted Discard Date P. O. No.	2/ 8/83 1/27/83 2/15/83
DGC-12 1/25/83 Well	near plan	t		
LALYSIS	AS RECEI	VED		LAB CODE
<pre>inclphthalein Alk. ital Alkalinity Chloride imper id Trichloroethylene ins-1,2-Dichloroethene i,i,2-Trichloroethane i</pre>	0. 91. 14. 1.77 0.13 750. 860. 43. 11.	mg/l mg/l mg/l mg/l ppb ppb ppb ppb	-	201-76-00400 ² 202-76-00400 ² 224-76-00700 ² 253-44-01100 ² 255-44-01100 ² 418-36-00500 ² 420-36-00500 ² 999-36-00500 ²
ce. Sample for Lead and Copper wa ce. Sample for Cl and Alk COPY TO Dunn Geoscience C	as field a in teflon s collected Corporation	cidified. sealed gl in glass n Attn	Sample for ass vials withou without preserv : Jeff Peffer	t head _ ation.
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maging to			•	
			۱۵	0131
1			01	A C T C T
TD- Dunn Geoscience Corr	porat 57.(00 1213 R L	espectfully subm ancaster Laborat	itted ories, Inc.
MAIN LABORATORY: 2425 New Holland Pike, Lancaster, Pa. 17601 FRANKLIN DIVISION: P.O. Box 467, 5424 Buchanan Trail East	• (717) 6 46 17:00 0	0131+	g. Wilson the	r shey /men

14:13:23- 44698 - 17 - 1 Y LABORATORY ANALYSIS REPORT LLI Sample No WH 219831 If In Geoscience Corporation Ib S. 18th Street Camp Hill, PA 17011 DGC -13 1/25/83 Well near pole

AS RECEIVED ANALYSIS LAB CODE 201-76-00400 Include that a short that a 0. mq/1202-76-00400-Total Alkalinity 131. mq/1224-76-00700 mg/1^hloride 13. 253-44-01100-: pper 0.54 ma/1255-44-011007 · 0.08 mg/1Lead 418-36-00500⁰ 200. ppb Trichloroethylene 420-36-00500) 150. ppb trachloroethylene 999-36-00500) .17. . ans-1,2-Dichloroethene ppb 999-36-00500) 1,1,2-Trichloroethane Э.О PPD

Sample for Lead and Copper field acidified. Sample for 'latile organics collected in teflon sealed glass vials without head ace. Sample for C1 and Alk collected in glass without preservation.

1 COPY TO Dunn Geos

Dunn Geoscience Corporation Attn: Jeff Peffer

000132

LIVY TO- Dunn Geoscience Corporat 57.00 1213 Respectfully submitted Lancaster Laboratories, Inc.



J. Wilson Hershey B.A. Mgr.

14:14:49- 44698 - 17 - 1 Y

LABORATORY ANALYSIS REPORT

Lawcaster Laboratories Incomponated LLI Sample No WW 219834

Dunn Geoscience Corporation 18 S. 18th Street Camp Hill, PA 17011

Date Reported 2/ 8/8 Date Submitted 1/27/8 Discard Date 2/15/2 P. O. No.

DGC-16 1/26/83 Well at pump test

ANALYSIS

LAB CODE

Phenolphthalein Alk.	0.	mg/l	201-76-C
Total Alkalinity	151.	mg/l	202-76-0
Chloride	69.	mg/l	224-76-C
Copper	< 0. 03	mg/l	253-44-0
Lead	< 0.05	mg/1	255-44-C
Trichloroethylene	4600.	PPD ·	418-36-C
Tetrachloroethylene	6600.	ppb	420-36-C
trans-1,2-Dichloroethene	2700.	PPD	999-36-0
1,1,2-Trichloroethane	1100.	PPD .	999-36- C

AS RECEIVED

Sample for Lead and Copper field filtered and acidified, Sample for volatile organics collected in teflon sealed glass vials without head space. Sample for Cl and Alk collected in glass without preservation.

1 COPY TO

Dunn Geoscience Corporation Attn: Jeff Peffer

000133

INV TO- Dunn Geoscience Corporat 57.00 1213 Respectfully submitted Lancaster Laboratories, In

2425 New Holland Pike, Lancaster, Pa. 17601 • (717) 656-2301 FRANKLIN DIVISION: P.O. Box 467, 5424 Buchanan Trail East

MAIN LABORATORY:

J. Wilson Hersky/ 33. Wilson Hershey B.A. Mar

LABORATOF	RY ANAL'	YSIS R	EPORT - 17	- 1 Y
: Lancaster Laborat	OVICS INCORPORATI	٤D	LLI Sample No W	W 219833
Geoscience Corporation , 18th Street amp Hill, PA 17011			Date Reported Date Submitted Discard Date P. O. No.	2/ 8/83 1/27/83 2/15/83
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TO- Dunn Geoscience Corporat 57.00 1213 Respectfully submitted Lancaster Laboratories, Inc.

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J. Wilson Hershey B.A. Mgr.

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,	DEPARTMENT OF ENVIRONMENTAL RESOURCES	Core Received 4/5/83
	SUREAU OF LABORATORIES	
	SPECIAL ANALTSES REPORT	
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NB-121 .	COMMONWEALTH OF PENNSYLVANIA	Lab Number
	DEPARTMENT OF ENVIRONMENTAL RESOURCES	Date Received 4/C/8
	SPECIAL ANALYSES REPORT	
	FACILITY	COLL NUMBER
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ر. ۱۳ مله ۱۵	COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES BUREAU OF LABORATORIES SPECIAL ANALYSES REPORT	Lab Number <u>13029</u> Date Received <u>4/5/8</u>
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COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES BUREAU OF LABORATORIES SPECIAL ANALYSES REPORT

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 1 تا کنی	COMMONWEALTH OF PENNSYLVANIA	Lab Number 11509
	DEPARTMENT OF ENVIRONMENTAL RESOURCES BUREAU OF LABORATORIES	Date Received 4/7/83
۰	SPECIAL ANALYSES REPORT	
Domino Saluage	CASE MW Mfg Co Dug Will	AT Form House 0403
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WATER AND HASTEHATER REPORT SAMPLE WEMBER - SELLOS2 COLLECTOR - MARTHA H KERN - 4544 COLLECTOR NO - 040319) ESTAS - DOMINE SALVAGE CARE NAME - M-4 MFG CO INC FACILITY - MW 4 10 CODE - SENE WEN STATION NUMBER - 000 SEAL INTACT SAMPLING LATE - 4/04/83 TIME - 13:00 LAT - 00:00:00.0 LONG - 00:00:00.0 TYPE - 01 STARCE - 03 STD ANAL - 500, RECEIVED ON - 4/05/83 · SEAL MO(E) 99405 99406 7 CU 1 PEPORT REVIEWED BY DATE - 4/22/83 11. STERET HERIPTION RESULT JONG VERIEY BY VERIFY DATE COMM CODE LABERATIR' ANALYSIS : CCC PI LEVEL 40.0000 +3/L RLS 4/21/83 00340 G 00403 23 JAB 7.1000 6 883 4/05/83 60410 7 4LX CACO3 24,0000 +34L h¥S. 4705783 G **⇔**515 3 RE3 DIS3/105 244.0000 #3/1 UE : 4/05/83 60-746 CHLIPIDE 103 15.0000 *6/L 9 4/05/83 9773 द्धः ।स 25.0000 +3/1 e £:_F 4/07/83 01027 11 TET UB/L 1:271 345 0.2000 9 u/06/83 27 TET US/L 9 *ះព្ 10.0000 83.5 91034 < 4/11/83 \$10+2 CE TOT UB/L 100.0000 121 ç 49.0 4/11/83 FE TOT 0:0-3 1280.0000 897L 3 880 4/08/83 01051 FB, TOTAL 12.2000 UG/L G BHL 4/06/93 UG/L 01055 TUTAL 150.0000 6 MRO 4/11/83 01037 SI-TOTAL 20.0000 UG/L KRG 4/11/83 9 EX. TOT US/L 40.0000 UG/L 01072 4/11/93 S. HRO 01105 4L. TOTAL 320.0000 99/L 5 MRO 4/11/83

SAMPLE COMMENTS

TOTAL ACTER TEST FOR THIS SAMPLE 15

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 WATER AND WASTEWATER REPORT

 SAMPLE WUMPER - BUILDONG

 OMLEDTOF - WARTHA H YEAN WUMPER - BULLEDTOR HE - 0403183

 EST43
 - DOWING BAL/AGE

 EST43
 - DOWING BAL/AGE

 EAST 44-FE - WW FG

 F4CILITY - 44-2

 ID CDDE - NOAE

 VON STATION WUMBER - 000

 SAMPLING JATE - 4/04/33

 TIME - 10:20

 LAT - 00:00:00.0

 LONG - 00:00:00.0

 VON - 4/05/07

TYPE - 01 SOURCE - 03 STD ANAL - 500 RECEIVED 04 - 4/05/93 SEAL MI(S) 79401 99402 7 CCC REFORT REVIEWED 3Y DATE - 4/22/83

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STORET	MEGRIPTICH		RESULT	0040	VERIEY	ΞY	VERIFY DATE	00HH.	œx
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<b>\$</b> 7340	XI HI LEVEL	<	10.0000	¥9/1	9	RLS	4/21/83		
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VT-10	7 411 04003		138.0000	<del>5</del> 3/1	9	22.5	4/05/93		
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\$\$.9K/}	CALAINE		23.0009	-:/:_	6	ICB	4/05/93		
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01245	fe tot		1350.0000	US/L	9	<u>89</u>	4/08/83		
01051	FRATOTAL	<	5.0000	US/L	G	<u>941</u>	4/06/83		
01055	M TOTAL		80.0000	1971	G	<u>HSO</u>	4/11/93		
91967	NE FETAL		40.0000	θA.	5	MRO	4/11/83		
01092	ZN. TOT UGAL		70.0000	UG/L	G	MRO	4/11/83		
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SAMPLE COMMENTS

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TOTAL WARER TEST FOR THIS SAMPLE :5

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AR000155 000155

WATER AND WATER REPORT SAMPLE NO+BER - 8311084 COLLECTOR - HARTHA H KERN - 4044 COLLECTER NO - 0403137 - TOHING SALVASE 597*4*2 CATE BANE - M.W. MED FACILITY - MA-1 10 CONE - 104E WEN STATION NUMBER - 000 SEAL INTACT SARPLINE LATE - 4/04/83 TIME - 9:40 LAT - 05:00:00.0 LENG - 00:00:00.0 TYPE - 01 SOURCE - 03 STD ANAL - 500 RECEIVED ON - 4/05/93 SEAL #3(S) 99143 99414 7 CV DATE - 4/22/83 REPORT REVIEWED BY - (1) DESCRIPTION RESIDIT CONC VERIFY BY VESIFY DATE STRET 2003 HK00 LASIGATOP: AVALYSIS : CTO HI LEVEL 17.0000 80/1 60340 3 <u>81</u>3 4/21/83 00:03 PH 143 7.4000 4/05/83 G 분별응 40010 - +L+ CAC03 259.0000 H0/L 243 G 4/05/83 ¥0/l 00515 3EB DIBS/105 352.0000 - 6 28.1 4705783 00940 0-1-09105 7.0000 -9/1 ICB 4/05/93 G 00935 924 TOT 35.0000 MC/L 01 0 4/07/83 ē 01027 CD TOT US/L 0.6000 49/1 ЪЦ. 4/06/93 G 19 707 69/6 01034 139.0003 ING/L 9 4/11/93 09 737 9872 10.0000 89/5 01642 < 6 **#**R0 4/11/83 01445 72 TOT 820.0000 -06/L 22.5 4/03/83 9 >01051 50.0000 UG/L 361 FB.TOTAL 4/05/83 6 01055 HY TOTAL 470.0000 UG/L 6 HRO 4/11/83 01067 NI-TOTAL 30.0000 UB/L 4/11/93 6 01072 ZN-TOT US/L 70.0000 UG/L G HRO 4/11/83 01105 AL, TOTAL 310.0000 US/L 6 590 4/11/83

SAMPLE COMMENTS NO SAMPLE COMMENTS

TOTY HAVER TEST FOR THIS SAMPLE 15



AR000156

WATER AND WASTEWATER REPORT SAMPLE NUMBER - SEILOST COLLECTOR - MARTHA H KERN MOMMU COLLECTOR NO - 0405189 ESTAB - DIALNO SALVAGE CASE NAME - MARTHA H KERN MOMMU SER - 0405189 SALUTION - MARTHA H KERN MOMMU SER - 0405189 SALUTION - MARTHA H KERN MOMMU SER - 0405189 SALUTION - MARTHA H KERN MOMMU SER - 0405189 SEAL INTACT SAMPLING FATE - 4/04/83 TIME - 10:50 LAT - 00:00:00.0 LONG - 00:00:00.0

TYPE - 01 SOURCE - 03 STD ANAL - 500 RECEIVED GN - 4/05/83 SEAL MO(S) 99410 99411 JULIU REPORT REVIEWED BY DATE - 4/22/83

STORET MERIPTION RESULT CONC LERIEY BY VERIFY DATE 2090 8+03 LARGATCE · ANALYSIS : DI HI LEVEL 57,0000 60343 <u>8375</u> 3 4/21/83 RLS 24 1.48 응말령 4/05/83 444.43 7.9000 9 T 42K CASO3 44113 423 122.0000 32.2 8 4/05/83 **WS15** FEE 0/39/105 210.0000 •3/2_ 월달 : 9 4/05/83 (09°C) CHLIXIDE **1**50 ICS 16.0000 S 4/05/63 11- TH 44945 - 30.3003 4/07/93 *3/1 3 55 TOT UG/L 29 TOT UG/L 01027 0.7900 :<u>19</u>/2 540 9 4/06/83 22 01034 830 10.0000 3 < 4/11/83 TOT 197 19974 .34 11042 ¥90 50.0000 9 4/11/83 FE TOT 61045 610.0000 113/L XRO 4/02/33 S PB, TETAL ≥0:051 7.2000 19/1 BHL 9 4/06/83 61055 "N TOTAL 210.0000 調儿 HRD 9 4/11/83 \$1067 NI. TOTAL 10.0000 19/1 HRC 9 4/11/83 01092 ZH, TOT USAL 20.0000 US/L MRO 4/11/83 9 01105 E, TOTAL 199.0000 08/1 9 HR0 4/11/33

SAMPLE COMMENTS

TOTAL WARKER TEST FOR THIS SAMPLE 15



000157 Arooo157

WATER AND HARTEPATER REPORT 64M212 #08559 - 6311068 DEFECTION - MOLEMA A REAM REAM CILLECTER NO - 0403191 EFT4E - 17+145 941446E 0418 x448 -FACILITY - +2-5 10 0055 - +045 WER STATION HIMSER - 000 SEAL INTACT S4+PLING MATE - 4/04/33 TIME - 13:30 LAT - 00:00:00.0 LONG - 00:00:00.0 TYPE - 41 EDERCE - 03 STD 444L - 500 RECEIVED 04 - 4/05/83 SEAL (C(S) 96440 96441 FERENT FEVERED BY DATE - 4/22/83 ΞŦ 12102107103 15:47 COND VERIEN BY VERIEN DATE COMPACTION LARTIATOR ANALYSIS : (07-0 14.0000 +5/1 - G <u> 115</u> 4/21/83 Q443 7.5000 4/05/83 8 843 44. 44 97 - 19 7 4LX CASS3 149.0000 #97t ŝ HES 4/05/63 ME13 ·EE 2163/105 - <del>1</del>15- 1 HH.I 442.0000 ÷ 4/05/83 (;;÷...) a and 47,9000 NG/L 103 6 4/05/33 304 707 60945 83/5 45.0000 3 E! F 4/07/83 12 TT 63/L 73 TT AA \$1027  $\langle$ 6.2000 -03/L 3 SHL 4705783 91174 123/AL < 10.0000 -9 330 4/11/83 CE TOT SEAL FE TET FB. TOTAL 011-2 • 20.0000 09/1 3 **#**30 4/11/83 ::.-: 6350.0000 U57L 6 ARO 4/03/83 01651 ۲. 5.0000 UG/L 6 BHL 4/05/83 01055 IN TOTAL 40.0000 UG/L G MRO 4/11/83 01267 < 10.0000 05/L HRO 4/11/33 3 010?2 DALTOT US/L ۲ 10.0000 UG/L G HRO 4/11/83 01125 41.00742 40.0000 UG/L G KRO 4/11/83

SAMPLE COMMENTS --

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TOTAL MUMBER TEST FOR THIS SAMPLE 15

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S. EN O. Bot	VIRONMENT	AL PROTECTION AGENCY Adria, Virginia 22313 - 703/55	- CLP Si 57-2490	umpie blanage	ment Of	fice	· .	Sample Numb C-4297	er
			ORGAN	ICS ANALYS	S DATA	SHEET	1		
.hoant	ary Names	FAL CORPORATIO	N		Case N	lo.	242	0	
IDOFAU ab Sam	ory Name:	2920- 1-3	··			nort No:			
mote i	Matrivi	WATER			Contra	ct No.:	68-01-68	54	
ita Re	lease Author	ized By: BAT			Date S	ample Receiv	ed:	2-17-84	
		CONCE DATE EX DATE AN	SE NTRATK (TRACTE	MIVOLATILE ON: LOV M ED/PREPARE	Compos IEDIUM D:	UNDS HIGH (circ) 2-2 3-7	e one) 2-84 - 84	•	
			FRCENT	MOISTURE					
		CON	C./DILU	TION FACTO		1			
P#	CAS #		 («	ur/l or ur/kg circle one)	PP #	CAS #	-		or up/1 (circle one
1A)	88-06-2	2,4,6- trichlorophenol	_	200	(52B)	87-68-3	hexachlorobu	tadiene	200
(22A)	59-50-7	p-chloro-m-cresol		40U	(53B)	77-47-4	hexachlorocy	clopentadiene	200
4A)	95-57-8	2- chlorophenol		20U	(54B)	78-59-1	isophorone		200
(AI.)	120-83-2	2,4-dichlorophenol		200	(558)	91-20-3	naphthalene	•	20U
(34A)	105-67-9	2,4-dimethylphenol	132	20000	(568)	98-95-3	nitrobenzene		- 200
7A)	\$8-75-5	2- nitrophenol		400	(61B)	62-73-9	N-nitrosodim	ethylamine	200
(AS	100-02-7	4-nitrophenol		1000	(628)	86-30-6	N-nitrosodiph	enylamine	200
(39A)	51-28-5	2,4-dinitrophenol		1000	(63B)	621-64-7	N-nitrosodipr	opylamine	40U
) <u>A)</u>	534-52-1	4,6-dinitro-2-methylphenol		40U	(66B)	117-81-7	bis (2-ethylhe	xyl) phthalate	1127 200
(64A)	\$7-86-5	pentachlorophenol		40U	(67B)	\$5-62-7	benzyi butyi p	hthalate	200
(65 <u>A)</u>	108-95-2	phenol	183	200 GAT	(688)	84-74-2	di-n-butyl phi	halate	20U
	65-85-0	benzoic acid		2000	(69B)	117-84-0	di-n-octyl phi	haiate	200
	95-48-7	2-methylphenol		200	(70B)	84-66-2	diethyl phthal	ate	200
	108-39-4	4-methylphenol	428	200 64	(71B)	131-11-3	dimethyl phth	alate	200
	95-95-4	2,4,5-trichlorophenol		2000	(728)	56-55-3	benzo(a)anthr	acene	200
(18)	\$3-32-9	acenaphthene		20U	(738)	50-32-8	benzo(a)pyren	e	40U
(*9)	92-87-5	benzidine		80U	(748)	205-99-2	benzo(b)fluor	Inthene	40U
)	120-82-1	1,2,4-trichlorobenzene		200	(758)	207-08-9	benzo(k)fluora	anthene	40U
9B)	118-74-1	hexachlorobenzene		200	(768)	218-01-9	chrysene		200
· ^B)	67-72-1	hexachloroethane		20U	(778)	208-96-8	acenaphthyle	NE	20U
B)	111-44-4	bis(2-chloroethyl)ether		20U	(78B)	120-12-7	anthracene		20U
20B)	91-58-7	2-chloronaphthalene		20U	(79B)	191-24-2	benzo(ghi)per	ylene	400
B)	95-50-1	1,2-dichlorobenzene		20U	(\$08)	86-73-7	fluorene		200
B)	541-73-1	1,3-dichlorobenzene		20U	(\$18)	\$5-01-\$	phenanthrene		20U
27B)	106-46-7	1,4-dichlorobenzene		200	(82B)	53-70-3	dibenzo(a,h)a	hthracene	40U
8)	91-94-1	3,3'-dichlorobenzidine		<u>40U</u>	(83B)	193-39-5	indeno(1,2,3-c	:d)pyrene	40U
<u>B)</u>	121-14-2	2,4-dinitrotoluene		400	(\$48)	129-00-0	pyrene	44. 44	200
36B)	606-20-2	2,6-dinitrotoluene		400		62-53-3	aniline		200
<u>B)</u>	122-66-7	1,2-diphenylhydrazine		_40U		100-51-6	benzyl alcoho	1	<u>40U</u>
<u>B)</u>	206-44-0	fluoranthene		20U		106-47-8	4-chloroanilin	¢	<u> 100U</u>
+08)	7005-72-3	4-chlorophenyl phenyl ether	•	200		132-64-9	dibenzofuran	CONTRO	200
8)	101-55-3	4-bromophenyl phenyl ether	•	200		91-57-6	2-methyinaph	thalene	40U
_3)	39638-32-9	bis (2-chloroisopropyl) ether	r	40 <del>U</del>		88-74-4	2-nitraniline		2000
(18)	111-91-1	bis (2-chioroethoxy) methan		40U		99-09-2	3-nitre	ROODISC	2 2000

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	nto 171 Maria	2920-1-3		QC Report Nor
т Ма 1	in an in an an			Centract No. 68-01-6854
- 1476 - 14 A	lease Authori	and Byr OK		Date Sample Received: _2/17/84
· •••				
		VOLATELES		PESTICIDES
<b>.</b>	· .			CONCENTRATION: LOT MEDIUM HIGH (circle me)
- <b>N</b>				DATE EXTRACTED/PREPARED
AIG DATE	ANALY77D	2/22/84		DATE ANALYZED:
- 20	ENT MOISTU	RE:		PERCENT MOISTURE:
<b>- )</b>	CAS #		(circle one)	PP / CAS / (circle or
	107-02-8	acrolein	1000	(197) 309-00-2 aldrin (0.10
(Jv)	107-13-1	acrylonitrile	1000	(70F) 60,57-j dieidrin / 0,111
<u>^ }</u>	71-43-2	benzene	50	(91P) 57-78-9 chiordane / 0,10
<u>5V)</u>	54-23-5	carbon tetrachloride	<u>511</u>	(72P) 50-25-3 6,4-DOT / 0.10
<u>(77)</u>	108-90-7	chlorobenzene	<u>5U</u>	( <b>33P</b> ) 72-35- <b>Y 4,4-DDE</b> / 0,10
<u> </u>	107-06-2	1,2-dictionesthane	511	
<u>(VII.</u>	71-55-6	1,1,1-trichloroethane	<u> </u>	
(1.11)	75-34-3	I,I-dichioroethane	SII	
<u>(V)</u>	79-00-5	1,1,Z-trichloroethane		(9/P) 1051-07-8 execution suitate/ 0.10
<u>(15V)</u>	79-34-5	1,1,2,2-tetrachioroethane	<u> </u>	
<u>sv)</u>	75-00-3	Chioroethane	<u></u>	(100B) 76 44 8 herearthing (1.11)
<u>97)</u>	110-73-8	Z-chioroethyivinyi ether	<u></u>	(1018) 1026-57-3 bentachlor expride - 0.111
(23V)	67-66-3		14 orhis	
<u>(77)</u>	73-33-4	1,1-diction de thene	142 47 24	(101P) 11-RL7 A-BHC 0.10
(10V)	170-00-7	1.2. dichlosocococo	STT ST	(104P) 319-84-8 6-BNC 0.1U
<u>0277</u>	10061-02-6			(105P) SE-89-9 -BHC (Lindane) 0.1U
<u> </u>	10001-02-0		1.001	(106P) 53469-21-9 PCB-1/242 0.1U
(141)	100-41-4	ethylbenzene	511	(107P) 11097-69-1 PCB/1254 0.1U
(AAV)	75-09-2	methylene chloride	Stt	(108P) 11104-28-2 PC4-1221 0.1U
(45V)	76.17.3	chiaromethene	SU	(109P) 11141-16-5 PCB-1232 0.10
(46V)	74.129	bromomethane	Str	(110P) 12672-29-6 PCB-1208 0.10
(474)	75-25-2	bromotorm	Sti	(111P) 11096-82-5 /PCB-1260 0.1U
(457)	75-27-4	bromodichloremethane	50	(112P) 12674-11-2 / PCB-1016 0.10
(49V)	. 75-69-4	Eluerotrichloromethane	511	(113P) 8001-35-2 texaphene 0.10
(JOV)	75-71-8	Schlorodifiuoromethane	<u>SU</u>	
(VIV)	124-48-1	chlorodibromomethane	511	
(151)	127-18-4	tetrachiorse thene	179 2000	
(86Y)	106-88-3	taluane	50	CONCENTRATION LOT MEDRUM HIGH (circle one)
(17V)	79-01-6	trichiersethene	57 500	DATE EXTRACTED/PREPARED
(SEV)	75-01-4	vinyi chieride	14 50 657	DATE ANALYZED
	67-64-1	acrime	1000 0	PERCENT HOISTURE
-	71-93-3	2-butanone	200U	
	75-15-0	carbondisulfide	100	
	519-78-6	2-hexanone	1000	
-	105-10-1	4-methyl-2-pentanene	1000	(1296) 1766-01-6 2,3,7,1-tetrachiorodiben 20-9-610211
مردون <u>الأل</u> امي	100-42-5	styrene	50	. / Stary
-	108-05-4	vinyl ecetate	100	
-	1330-20-7	total sylenes		ARAAA \$20160
				ma000160

LOW WATER

# U.S. ENVIRONMENTAL PROTECTION AGENCY - CLP Sample Management Office P.O. Box \$15, Alexandria, Virginia 22313 - 703/557-2190

Se	mple Number	-
С	4297	

			O	RGANICS ANALYS	IS DATA	SHEET
	Laborat	ory Namet _	EAL CORPORATION		Case N	×
1	Lab Sarr	pie ID Not	2920-1-3	· · · · · · · · · · · · · · · · · · ·	QC Rep	ort No:
	Sample	Matrix:	WATER		Contrac	t No.1
	Data Re	lease Author	ized Bys BAT		Date Se	imple Re
	how	SNTP ATION	HOW MEDILIA HICH (ein	ria	CON	CENTDA
	DATE	FYTRACTE	D/PREPARED		DAT	SEITRA F Fytda
	DATE	ANALYZED		+	DAT	E ANALY
	PERG	ENT MOISTL	JRE:		PERG	CENT MO
	CONC	DILUTION	FACTOR:		CON	C./DILU
		$\backslash$				
	PP #	ÇAS#		(circle one)	<b>27 /</b>	CAS
	(2V)	107-02-8	acrolein	/1000	(89P)	309-00
	<u>(3V)</u>	107-13-1	acrylonitrile	<u>100u</u>	(90P)	60-57
	<u>(4V)</u>	71-43-2	benzene	<u>5U</u>	(91P)	57-74
	<u>(6V)</u>	56-23-5	carbon tetrachloride	<u>5U</u>	<u>(92P)</u>	50-21
	(7V)	108-90-7	chlorobenzene	<u> </u>	(93P)	72-55
	(10V)	107-06-2	1,2-dichloroethane	50	<u>(94P)</u>	72-54
	<u>(11V)</u>	71-55-6	1,1,1-trichloroethane	50	(95P)	115-25
	<u>(13V)</u>	75-34-3	I)I-dichloroethane	<u>50</u>	(96P)	115-29
	<u>(14V)</u>	79-00-5	1,1,2-trichloroethane	<u>5u</u>	<u>(97P)</u>	1031-07
	<u>(15V)</u>	79-34-5	1,1,2,2-tetrachioroethane	<u> </u>	<u>(98P)</u>	72-20
)	<u>(16V)</u>	75-00-3	chiordethane	<u> </u>	(99P)	7421-93
	<u>(19V)</u>	110-75-8	2-chlorbethylvinyl ether	50	(100P)	76-44
	(237)	67-66-3	chioroform	<u> </u>	(101P)	1024-57
	(29V)	75-35-4	1,1-dichlokoethene	50	(102P)	319-84
	(30V)	156-60-5	trans-1,2-dichloroethene	<u> </u>	(103P)	319-85
	<u>(32V)</u>	78-87-5	1,2-dichloropropane	<u> </u>	(104P)	319-84
	<u>(33V)</u>	10061-02-6	trans-1,3-dichloropropene	<u>50</u>	(105P)	58-89
	1	0061-01-05	cis-1,3-dichloropropene	100	(106P)	53469-21
	(38V)	100-41-4	ethylbenzene	50	(107P)	11097-69
	(44V)	75-09-2	methylene chloride	<u> </u>	(108P)	11104-21
	(45V)	74-87-3	chloromethane	<u> </u>	(109P)	11141-10
	(46V)	74-83-9	bromemethane	50	(110P)	12672-2
	(47V)	75-25-2	bromotorm	<u> </u>	(111P)	11096-82
	(48V)	75-27-4	bremodichloromethane		(11ZP)	12674-11
	(499)	73-69-6		50	(1138)	8001-33
	(50V)	75-71-8	dichlorodifluoromethane			
	(51V)	124-48-1	Chlorodibromomethane	50		
		127-13-4/	tetrachioroethene			
	(367)	108-88-0		517	CON	CENTRA
					DAT	E EXTR/
	(	<u>(7)-91-4</u>			DAT	E ANAL
			2.h.daeee		PER	CENT MO
		72120	contraction of the		CON	C./DILU
•	•=====	1910.70 6	7_heranen	100		
		108-10-1	A methyl ? and and	204 Etr	-	P14
		100.49 #		UC	<b></b>	1746 0
		108-06 ->		<u> </u>	(1270)	1/46-01
	<del>_/</del> _		VIIII ACELETE			

Case N	a <u>142</u>	0	
QC Rep	port No:		
Contra	ct No.a 🛛	68-01-6854	
Date Se	imple Receive	di <u>2-17-84</u>	
60N		PESTICIDES	
	CENTRATION	NI LOW MEDIUM HK	H (circle one)
DAT	E EAIRACIE E ANALVZED	D/PREPAREDI	2-21-87
95 2/	e arali 260 Cent Moisti	·DE	01
CON			
CON		PACIOR:	
27 /	CAS /		(circle on
(89P)	309-00-2	aldrin	0.10
(90P)	60-57-1	dieldrin	0.10
(91P)	57-74-9	chlordane	0.10
(92P)	50-29-3	4,4'-DDT	0.10
(93P)	72-55-9	4,4'-DDE	0.10
(94P)	72-54-8	4,4'-DDD	0.10
(95P)	115-29-7	≪-endosulfan	0.10
(96P)	115-29-7	B -endosulfan	0.10
(97P)	1031-07-8	endosulfan sulfate	0.10
(98P)	72-20-8	endrin	<u> </u>
(99P)	7421-93-4	endrin aldehyde	0.10
(100P)	76-44-8	heptachlor	0.10
(101P)	1024-57-3	heptachlor epoxide	0.10
(102P)	319-84-6	K-BHC	0.10
(103P)	319-85-7	B-BHC	0.10
(104P)	319-86-8	5-BHC	0.10
(105P)	58-89-9	7-BHC (lindane)	0.10
(106P)	53469-21-9	PCB-1242	<u>0.20 <del>0.1</del></u>
(107P)	11097-69-1	PCB-1254	0,50 0.10
(108P)	11104-28-2	PC8-1221	0.30 0.10
(109P)	11141-16-5	PCB-1232	0.40 0.10
(110P)	12672-29-6	PCB-1248	0.30 0.10
(111P)	11096-82-5	PCB-1260	0.70 0.10
(112P)	12674-11-2	PCB-1016	0.20 0.18
(113P)	8001-35-2	toxaphene	4.00 0.10

CON	CENTRATIC	DIOXINS M: (LOV) MEDIUM HIGH (c	ircle ane)
DATI DATI PERC	E EXTRACT E ANALYZE CENT MOIST	ED/PREPARED: <u>2-2.</u> D: <u><u>3-8-8</u> FURE:</u>	4
		. 000161	(circle on tiavin 0.10
12701	1/4-01-6	AR000161	Duromhar 19

U.S. ENVIRONMENTAL PROTECTION AGENCY - CLP Sample Management Office P.O. Box 818, Alexandria, Virginia 22313 - 703/557-2490

:	Ser	np.	Le:	Number
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			ORGANICS ANALYS	SIS DATA	SHEET			
Laborat	ory Name:	EAL CORPORATION		Case N	× <u>242</u>	0		
Lab Sam	ple ID Not _	2920- (-2		QC Rep	ort No:			
Sample	Matrix:	WATER		Contrac	t No.s	68-01-6854		
Data Re	lease Author	ized By:Bfl	······································	Date Se	mple Receiv	ed: <u>2-17-</u>	84	
ι.		VOLATILES				PESTICID	ES	
gonc		NEDIUM HIGH (c	ircle one)	CON	CENTRATIO	N: LOW MEDIUL	A HIGH (circle o	ne)
DATE	EXTRACTE	D/PREPARED:	/	DAT	EEXTRACT	D/PREPARED:	2-21-64	-•
DATE	ANALYZED	t		DAT	E ANALYZE	Dı	3-8-84	
PERQ	ENT MOISTU	RE:		PERC	ENT MOIST	URE:		
CONC	VDILUTION	FACTOR:		CON	C./DILUTIO	NFACTOR:		
	$\backslash$							(1)
			of GULLS					
PP #	CAS /		(circle one)		CASI			(circle c
(2V)	107-02-8	acrolein		(87P)	309-00-2	aldrin		0.10
(3V)	107-13-1	acrylonitrile	<u> </u>	(90P)	60-57-1	dieldrin		<u>0.1U</u>
(4V)	71-43-2	benzene	<u> </u>	(91P)	57-74-9	chlordane		0.10
<u>(6</u> V)	56-23-5	carbon tetrachloride	<u>5U</u>	(92P)	50-29-3	4,4'-DDT		0.10
(7V)	108-90-7 \	chlorobenzene	<u>50</u>	(93P)	72-55-9	4,4'-DDE		0.10
(10V)	107-06-2	1,2-dichloroethane	<u> </u>	(94P)	72-54-8	4,4'-DDD		0.10
(11V)	71-55-6	V,I,I-trichloroethane	50	(95P)	115-29-7	-endosulfan	······	0.10
<u>(13V)</u>	75-34-3	Il-dichloroethane	<u>50</u>	<u>(96P)</u>	115-29-7	<b>B</b> -endosulfan	•	0.10
(14V)	79-00-5	1,1,2-trichloroethane	<u> </u>	<u>(97P)</u>	1031-07-8	endosulfan súlfat	le	0.10
(15V)	79-34-5	1,1,2,2-tetrachioroethane	50	<u>(98P)</u>	72-20-8	endrin		0.10
(16V)	75-00-3	_chlordethane /	<u> </u>	(99P)	7421-93-4	endrin aldehyde		
(19V)	110-75-8	2-chlorbethylvinyl ether	<u> </u>	(100P)	76-44-8	heptachlor		0.10
<u>(23V)</u>	67-66-3	chloroform	<u> </u>	(101P)	1024-57-3	heptachlor epoxi	de	0.10
(29V)	75-35-4	1,1-dichlokoethene	<u> </u>	(102P)	319-84-6	≪-BHC		0.10
(30V) ·	156-60-5	trans-1,2-dichloroethene	<u> </u>	(103P)	319-85-7	A -BHC		0.10
(32V)	78-87-5	1,2-dichloropropane	<u>50</u>	(104P)	319-86-8	S-BHC		0.11
<u>(33V)</u>	10061-02-6	trans-1,3-dichloropropene	<u>50</u>	(105P)	58-89-9	7-BHC (lindan	e)	0.10
1	0061-01-05	cis-1,3-dichloropropene	100	(106P)	53469-21-9	PCB-1242	0.20	<del>0.1(</del>
(38V)	100-41-4	ethylbenzene	<u>50</u>	(107P)	11097-69-1	PCB-1254	0.50	<del>0.1</del>
(44V)	75-09-2	methylene chloride	<u>50</u>	(108P)	11104-28-2	PCB-1221	0.30	<del>9.11</del>
(45V)	74-87-3	chloromethane	<u>50</u>	(109P)	11141-16-5	PCB-1232	0.30	0.1
(46V)	74-83-9	bromomethane	<u>50</u>	(110P)	12672-29-6	PCB-1248	0.30	1 <del>0.11</del>
(47V)	75-25-2	brometerm	50	(111P)	11096-82-5	PCB-1260	0.71	, <del>0.11</del>
(48V) ·	75-27-4	bremodichloromethane	50	(112P)	12674-11-2	PCB-1016	0.21	J <del>0.11</del>
(49V)	75-69-4	fluorotrichloromethane	<u>5U</u>	(113P)	8001-35-2	toxaphene	4.00	-0-11
(50V)	75-71-8	dichlorodifluoromethane	50					
(51V)	124-48-1	chlorodibromomethane	50					-
(\$5V)	127-18-4/	tetrachioroethene	<u>50</u>			DIOXINS	00016	2
(86V)	108-88-5	toluene	50	CON			M MIGH /circle	~~~)
(87V)	79-01-6	trichloroethene	50	DAT	F FYTRACT	ED/DEEABED	2 - 2 - 8	4
(88V)	75-91-4	vinyl chloride	50	0A1	5 EA IRAGI 8 ANAI 478	D.	7-0-84	4
	67-64-1	acetone	<u>50</u>		e anti loisi		5-0 01	
	72-93-3	2-butanone	50	CON		NEACTOR.		
	/75-15-0	carbondisulfide	\5U	CUN				
	/ 519-78-6	2-hexanone	5ប					
	108-10-1	4-methyl-2-pentanone	50	PP /	CAS #			(circle o
=7	100-42-5	styrene	5U\	(1296)	1746-01-6	2,3,7,8-tetrachic	xodibenzo-p-diox	in 0.11
	108-05-4	vinyl acetate	5U· \	الأسطانيينية		ARAAA	162	
7			511 \				Dec	amber 1

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**1/1** UL KE (circle one

us	ENVERONMENTAL	PROTECTION	AGENCY	- CLP Sample	Management Office
20	Box \$15, Alexandri	a, Virginia 2201		N2470	

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Ser	whe Number
C	-4295
LOW	WATER

ORGANICS ANALYSIS DATA SHEET

Laboratory Names FAL CORPORATION		Case No: 2420
Lab Sample D Nos 2920-/-2		OC Report Nor
Samie Matrix		Contract No. 68-01-6854
Data Release Authorized Byt OVT		Date Sample Received:
<u> </u>		
VOLATELES		PESTICIDES
CONCENTRATION OF HEDRIN HIGH CITCH	• • • • • •	CONCENTRATIONS OF MEDRING MICH (single and)
DATE BYTEACTED/DEFRARED	/	TATE EXTRACTED / BUFPARED
DATE ANALYZED: 2/22/84		DATE ANALYZED:
BERCENT HOISTURF		BERCENT MOISTURE
	$\mathcal{O}\mathcal{O}$	
PPI CASI	(circle one)	PP / CAS / (circle
(2V) 107-02-8 acrolein	1000	(29P) 309-00-2 aldrin / 0.1U
(3V) 107-13-1 acrylonitrile	1000	(90P) 60,57-1 dieldrin 0.11
(4V) 71-43-2 benzene	<u></u>	(91P) 57-24-9 chiordane / 0.10
(6V) 56-23-5 carbon tetrachloride	511	(92P) 50-23-3 0,0'-DDT / 0.11
(7V) 108-90-7 chlorobenzene	<u>SU</u>	(93P) 72-55-9 4,4'-DDE / 0.1U
(10V) 107-06-2 1,2-dichloroethane	SU	(94P) 72-54-8 0,4'-DDD / 0.11
(11V) 71-55-6 1,1,1-trichloroethane	511	(95P) 115-29-7 C -endosulfan 0.10
(13V) 75-34-3 1,1-dichloroethane	511	(96P) 115-29-7 G-endosulfan 0, 11
(14V) 79-00-5 1,1,2-trichloroethane	511	(97P) 1031-07-8 endosulfan sulfate/ 0.10
(15V) 79-34-5 1,1,2,2-tetrachioroethane	511	(98P) 72-20-8 endrin _ 0.11
(16V) 75-00-3 chloroethane	511	(99P) 7421-93-4 endrin aldehyde/ 0.11
(19V) 110-75-8 2-chloroethylvinyl ether	50	(100P) 76-48-8 heptachior / 0.11
(23V) 67-66-3 chloroform	511	(101P) 1024-57-3 heptachlor epoxide 0.11
(29V) 75-35-4 1,1-dichloroethene	50	(102P) 319-34-6 C-BHC / 0.10
(30V) 156-60-5 trans-1,2-dichloroethene	70 solt	(103P) 319-85-7 &-BHC 0.10
(32V) 78-87-5 1,2-dichloropropane	50	(104P) 319-86-8 6 -BHC/ 0.1U
(33V) 10061-02-6 trans-1,3-dichloropropene	511	(105P) 58-89-9 -BHC (lindane) 0.11
10061-01-05 cis-1,3-dichloropropene	100	(106P) 53469-21-9 PCB-1242 0.11
(36V) 100-41-4 ethylbenzene	50	(107P) 11097-69-1 PCB-1254 0.1U
(44V) 75-09-2 methylene chloride	Str	(108P) 11104-28-2 PC8-1221 0.11
(45V) 74-87-3 chloromethane	511	(109P) 11141-16-5 PCB-1232 0.11
(46V) 74-83-9 bromomethane	511	(110P) 12672-29-6 PCB-1248 0.11
(67V) 75-25-2 bromolorm	SU	(111P) 11096-82-5 /PCB-1260 0.11
(48V) 75-27-4 bromodichloromethane	50	(112P) 12674-11-2 / PCB-1016 0.10
(49V) 75-69-4 Elugrotrichloromethane	511	(113P) 8001-35-2 toxaphene 0.11
(SOV) 75-71-8 dichlorodifluoromethane	50	
(SIV) 129-48-1 chlorodiaromomethane	511	
(ESV) 127-18-4 tetrachioroethene	236 506	DIOXING \
(1447) 106-18-3 toluana	SU V	CONCENTRATION LOW MEDRIN HIGH (circle me)
(17V) 79-01-6 Tichlerorthene	56 m 15	DATE EXTRACTED/PREPARED
(22V) 75-01-4 vinyi chieride	<u>50</u>	DATE ANALYZED
67-64-1 scenare	1000	PERCENT HOISTURE
78-93-3 2-butanene	2000	
75-15-0 carbondisulfide	100	
519-78-6 2-hezanone	1000	TT CASI (circle
106-10-1 4-methyl-2-pentanone	1000	(1298) 1746-01-6 2,3,7,5-tetrachiorodibenzo-p-dioxin (), )
100-42-5 styrene	50	July Suly
106-05-4 vinyl acetate	100	'AR000163 000163
1330-20-7 total xylenes	5U	

U.S. ENVIRONMENTAL PROTECTION AGENCY - CLP Sample Management Office 3.0. Box \$15, Alexandria, Virginia 22313 - 703/557-2490							
			GANICS ANALYS	TS DATA	SHEET	<u> </u>	
- 1	Mar 63-	FAT. CODDODATION		C		2420	
aborati	ory Name: _	2020 L-1	······································		wi	0/Q V	
Lab Sam	pie ID No: _	<u> </u>		, VC Rep	NOT 1 NOL	68-01-6854	
sample i	matrixi	ized Bus AAT		, contrak		N: 1_17.011	
ata Re.	uease Author			, wate Si	unple Keceiv		
					INDS	•	
				, wardt			
		CONCENTI	RATION: LOV A	MEDIUM	HIGH (circk	e one) 7 G4/	
		DATE EXTR.	ACTED/PREPARE	ED:	2-2:	4-07	
		DATE ANAL	YZED:		3-7-8	7	
	•	PER	CENT MOISTURE:	`			
		CONC./1	DILUTION FACTO	)R: <u>X</u>	1.4	-	
							_
			( WY				(W)
99 #	CAS #		(circle one)	PP /	CAS #		circle one
<u>21 A)</u>	88-06-2	2,4,6- trichlorophenol	200	(52B)	87-68-3	hexachlorobutadiene	200
(22A)	<b>59-50-7</b>	p-chloro-m-cresol	400	(53B)	77-47-4	hexachlorocyclopentadiene	200
'24A)	95-57-8	2- chlorophenol	200	(54B)	78-59-1	isophorone	200
31A)	120-83-2	2,4-dichlorophenol	20U	(55B)	91-20-3	naphthalene	200
34A)	105-67-9	2,4-dimethylphenol	200	(568)	98-95-3	nitrobenzene	200
17A)	88-75-5	2- nitrophenol	400	(61B)	62-75-9	N-nitrosodimethylamine	222
i8A)	100-02-7	4-nitrophenoi	1000	(62B)	\$6-30-6	N-nitrosodiphenylamine	
<u>59</u> A)	51-28-5	2,4-dinitrophenol	1000	(638)	621-64-7	N-nitrosodipropylamine	40U
(A)	534-52-1	4,6-dinitro-2-methylphenol	40U	(66B)	117-81-7	bis (2-ethylhexyl) phthalate 2	1 200.
.4A)	\$7-86-5	pentachlorophenol	400	(67B)	\$5-68-7	benzyi butyi phthalate	2011
65A)	108-95-2	phenoi	20U	(68B)	\$4-74-2	di-n-butyl phthalate	200
	65-85-0	benzoic acid	2001	(69B)	117-84-0	di-n-octyl phthalate 4	18 200
	95-48-7	2-methylphenol	200	(70B)		diethyl phthalate	2011
	108-39-4	4-methylphenol	200	(718)	_131-11-3	dimethyl phthalate	200
	95-95-4	2,4,5-trichlorophenol	2000	(728)	56-55-1	benzo(a)anthracene	200
. <del>B</del> )	83-32-9	acenaphthene	200	(73B)		benzo(a)pyrene	4011
5B)	92-87-5	benzidine	800	(748)	205-99-2	benzo(b)fluoranthene	40U
B)	120-82-1	1,2,4-trichlorobenzene	200	(758)	207-02-9	benzo(k)fluoranthene	401
.B)	_118-74-1	hexachlorobenzene	200	(768)	218-01-9	chrysene	200
128)	67-72-1	hexachioroethane	200	(77B)	208-96-8	acenaphthylene	200
8B)	111-44-4	bis(2-chloroethyl)ether	200	(78B)	120-12-7	anthracene	200
.0B)	91-58-7	2-chloronaphthalene	200	(79B)	191-24-2	benzo(ghi)perylene	400
25B)	95-50-1	1,2-dichlorobenzene	200	(808)	\$6-73-7	fluorene	20U
58)	541-73-1	1,3-dichlorobenzene	200	(818)	85-01-8	phenanthrene	20U
:/8)	106-46-7	1,4-dichlorobenzene	200	(828)	53-70-3	dibenzo(a,h)anthracene	40U
28B)	91-94-1	3,3'-dichlorobenzidine	40U	(838)	193-39-5	indeno(1,2,3-cd)pyrene	<u>40U</u>
5B)	121-14-2	2,4-dinitrotoluene	400	(84B)	129-00-0	pyrene	200
6B)	606-20-2	2,6-dinitrotoluene	400		62-53-3	eniline UUU154	20 <u>U</u>
178)	122-66-7	1,2-diphenylhydrazine	40**		100-51-6	benzyi alcohol	4
)B)	206-44-0	fluoranthene	200		106-47-2	4-chioroaniline	1000
0B)	7005-72-3	4-chiorophenyi phenvi ether	200		132-64-9	dibenzofuran	200
(8)	101-55-3	4-bromophenyl phenvi ether	200		91-57-4	2-methyinaphthaiene	40U
:B)	39638-32-9	bis (2-chloroisopropyl) ether	400		<b>88-74-4</b>	2-nitre ADODAL	2000
38)	111-91-1	bis (2-chloroethoxy) methane	40U		99-09-2	3-nim HIUUUI64	2001
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U.S. ENVIRONMENTAL PROTECTION AGENCY - CLP Sample Management Office Sample Number P.O. Box \$18, Alexandria, Virginia 22313 - 703/557-2490 C-4293 ORGANICS ANALYSIS DATA SHEET 2420 EAL CORPORATION Laboratory Name: Case No: 2920-1-1 Lab Sample ID No: QC Report No: WATER 68-01-6854 Contract No.: Sample Matrix: BAT 2-17-84 Jata Release Authorized By: ____ Date Sample Received: SEMIVOLATILE COMPOUNDS CONCENTRATION: (LOW) MEDIUM HIGH (circle one) 2-22-84 DATE EXTRACTED/PREPARED: 3-7-84 DATE ANALYZED: PERCENT MOISTURE: CONC./DILUTION FACTOR: PP # CAS (circle one) PP 4 CAS # (circle one 21A) 88-06-2 2,4,6 trichlorophenol 20U (52B) 87-68-3 hexachlorobutadiene 200 (22A) 59-50-7 40U (538) 200 p-chloro-m-cresol 77-47-4 hexachiorocyclopentadiene 20U 20U 95-57-1 (Z4A) 2- chiorophenol (548) 78-59-1 isophorone 20U 31A) 120-13-2 2.4-dichlorophenol (55B) 91-20-3 20U naphthalene 20**U** 105-67-9 200 (34A) 2,4-dimethylphenol (568) 94-95-3 nitrobenzene 40U 20U '57A) 82-75-5 62-75-9 2- nitrophenol (618) N-nitrosodimethylamine 200 58A) 100-02-7 100U 4-nitrophenol (62B) 86-30-6 N-nitrosodiphenylamine 1000 40U 59A) 51-28-5 2.4-dinitrophenol (63B) 621-64-7 N-nitrosodipropylamine 40U 2002 (66B) 50A) 534-52-1 4,6-dinitro-2-methylphenol 117-\$1-7 bis (2-ethylhexyl) phthalate 1657-40U 54A) 87-86-5 pentachiorophenoi (67B) \$5-61-7 benzyl butyl phthalate 200 20U 108-95-2 (638) 20U (65A) phenol-84-74-2 di-n-butyl phthalate 23 200U (69B) 117-84-0 200 65-85-0 benzoic acid di-n-octyl phthalate 95-48-7 2-methyiphenol 20U (70B) 84-66-2 diethyl phthalate 20U 20U 200 (718)108-39-4 4-methylphenol 131-11-3 dimethyl phthalate 20U 200U 95-95-4 2,4,5-trichlorophenol (728) 56-55-3 benzo(a)anthracene 20U benzo(a)pyrene (738) 40**U** B) 83-32-9 acenaphthene 50-32-8 80U 40U (**5B**) 92-87-5 benzidine (748) 205-99-2 benzo(b)fluoranthene 20U **B**) 120-82-1 1,2,4-trichlorobenzene (75B) 207-08-9 benzo(k)fluoranthene 40U 20U 20U .18) 115-74-1 (768) 218-01-9 hexachlorobenzene chrysene 200 20U 12B) 67-72-1 (778) 208-96-8 hexachloroethane acenaphthylene 20U \$8) 111-44-4 bis(2-chloroethyl)ether 20U (71B) 120-12-7 anthracene 40U 20U _0B) 91-58-7 2-chloronaphthalene 191-24-2 (798) benzo(ghi)perylene 20U 25B) 200 (20B) \$6-73-7 95-50-1 1,2-dichlorobenzene fluorene 20U 20U 6B) 541-73-1 1.3-dichlorobenzene (81B)85-01-8 phenanthrene 200 40U 27B) 106-46-7 (82B) 53-70-3 dibenzo(a,h)anthracene 1.4-dichlorobenzene 40U 288) 91-94-1 (\$38) 193-39-5 indeno(1,2,3-cd)byrene 40U 3,3'-dichlorobenzidine 400 20U 58) 121-14-2 (\$4B) 129-00-0 2,4-dinitrotoluene Pyrene 20U ×6) 40U 62-53-3 606-20-2 aniline 2,6-dinitrotoluene 37B) 122-66-7 40U 100-51-6 40U 1,2-diphenylhydrazine benzyi alcohol 1000 8 206-44-0 200 106-47-8 4-chloroanilline fluoranthene 20U 10B) 7005-72-3 4-chlorophenyi phenyi ether 200 132-64-9 dibenzofuran 40U 41B) 101-55-3 4-bromophenyi phenyi ether 20U 91-57-6 2-methyinaphthaline ( 1 200U 4011 28) 39638-32-9 bis (2-chloroisopropyl) ether 22-74-4 2-nitroaniline 40U AKUUUI (3B) 111-91-1 2001 bis (2-chloroethoxy) methane 99-09-2 3-nit

			US DATA	CHEET		243
Laboratory Nati	EAL CORPORATION		Case No	x 24	120	
Lab Sample ID I	Nos 2920-1-1		OC Rep	ort No:		
Sample Matrix:	WATER		Contrac	t No.s	68-01-6854	
Data Release A	uthorized By: BLT		Date Sa	mole Receiv	edi 2-17-84	
		<u> </u>				
<u>۱</u>	VOLATILES	,			PESTICIDES	
GONCENTRA	ATION: OV MEDIUM HIGH (circl	le one) /	CON	CENTRATIO	N: (LOV) MEDIUM HI	GH (circle one)
DATE EXTRA	ACTED/PREPARED:		DATE	EXTRACT	ED/PREPARED:	2-21-84
DATE ANAL	YZED:	<u>/</u>	DATE	ANALYZEI	Di 3 .	-8-84
PERGENT	DISTURE:	/	PERC	ENT MOIST	URE:	
CONCYDILU	TION FACTOR:	/	CON	C./DILUTION	NFACTOR:	······································
	c 4		-	C 1 4 4		at ut/kg
		/1000	(14D)		aldaia	
			(80P)	207-00-2	dialdaia	0.10
			(707)		dielarin	0.10
		/ 50	(717)	<u> </u>		0.10
	Carpon tetracruoride	<u> </u>	(722)	70-27-3		0.10
(70) 108-9	Chiorobenzene	50	(73P) (9) D)	/2-33-9	4,4'-DDE	0.10
(104) 107-0		517	(74)	/2-74-8	4,4-000	0.10
(IIV) 71-3	y a li dichiance		(7)(7)	11>-29-7		0.10
(13V) 75-3	34-3 Ill-dichioroethane	<u> </u>	(762)	115-25-7	p -endosultan	0.10
(14V) 79-0	0-5 1,1/2-trichloroethane	<u>5U</u>	(97P)	1031-07-8	endosultan sultate	- 0.10
(ISV) 79-3	14-5 1,1,2,2-tetrachioroethane	50	(78P)	72-20-8	endrin	0.0
(16V) 75-0	0-3 chierdethane	<u> </u>	(999)	7421-93-4	endrin aldehyde	0.10
(19V) 110-7	2-8 2-chiorbethylvinyl ether		(100P)	76-44-8	heptachior	0.10
(Z3V) 67-6	6-3 chloroform	50	(101P)	1024-57-3	heptachlor epoxide	0.10
(29V) 75-3	13-4 1,1-dichiotoethene		(1029)	319-84-6		0.10
(30V) 156-6	0-5 trans-1,2-dichloroethene	50	(103P)	319-85-7	A -BHC	0.10
( <u>32</u> V) 78-8	7-5 I,Z-dichloropropane	50	(104P)	319-86-8	0 -BHC	0.10
(33V) 10061-0	72-6 trans-1,3-dichloropropene	50	(105P)	58-89-9	7 -BHC (lindane)	0.10
10061-01	-05 cis-1,3-dichloropropene	100	(106P)	53469-21-9	PCB-1242	
(38V) 100-4	I-4 ethylbenzene	50	(107P)	11097-69-1	PCB-1254	0.40 410 0
(44V) 75-0	79-Z methylene chloride	50	(108P)	11104-28-2	PCB-1721	0.30 0.10
(45V) 74-1	7-3 chloromethane	<u> </u>	(109P)	11141-16-5	PCB-1232	8.30 0.10 1
(46V) 74-1	3-7 bromemethane	50	(110P)	12672-29-6	PCB-1248	0.30 0.188
(47V) 75-7	25-2 bromeform	<u> </u>	(111P)	11096-82-5	PCB-1260	0,70 0.10 1
(48V) 75-2	27-4 bremodichloromethane	50	(112P)	12674-11-2	PCB-1016	0.20 0.10
(49V) 75-4	57-4 Elucrotrichloromethane	<u> </u>	<u>(113P)</u>	8001-35-2	toxaphene	9.00 0.100
(SOV) 75-7	1-8 dichlorodifluoromethane	50				000166
(51V) 124-4	14-1 / chlorodibromomethane	50				000200
(85V) 127-1	18-4/ tetrachioroethene	<u>50</u>			DIOXINS	
(86V) 108-1	13-8 toluene	50	CON	CENTRATIC	N: LOW MEDIUM H	IGH (circle one)
(87V) 79-0	01-6 trichloroethene	50	DAT	E EXTRACT	ED/PREPARED	2-21-84
(38V) 75-	11-4 vinyl chloride	50	DAT	E ANALYZE	Dt	8-84
67/-1	64-1 acetone	<u> </u>	PERC	CENT MOIST	URE	
72-9	73-3 2-butanone	<u> </u>	CON	C./DILUTIO	+ FACTOR:	
/75_1	15-0 carbondisulfide	<u>\50</u>				
/ 519-3	78-6 2-hezanone	<u> </u>				
	10-1 4-methyl-2-pentanone	50	P <b>P /</b>	CAS#	BROOOL	(circle one)
	2-5 styrene	50\	(1296)	1746-01-6	2,3,7,5-tetractioned	tehżo-p-dioxin U.IU
	05-4 vinyl acetate	<u>50</u> . /				

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CONCENTRATION: CO	MEDIUM HIGH (circle one) PARED:	
DATE ANALYZED	2/22/84	
BERCENT MOISTURE		

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Date Sa	mple Receiv	d <u>2/17/</u>	84
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		PLSTICED	LS .
CONC		NI LOW MEDIUM	HIGH (circle one)
DATE	EXTRACT	D/PREPARED	/
DATE	ANALYZE	):	• /
PERC	ENT MOIST	URE:	/
\	\		16
	CAS		(circle
(877)	309-00-2		/ 0.10
(707)	60, 37-1		/ 0.1V
(919)	3/- 14-7	Cruordane	
(727)	20-27-3	•,•-001	
	72-32-9	4,4-002	
(919)	114.30.7		0.10
(96.2)	115-29-7		0.10
(978)	1031-07-9		
(912)	77-70-8		0.10
(992)	7471-91-4	andrin aldebuder	- 0.10
(100P)	76-44-8	heatachiar	0.10
(1017)	1024-57-3	heptachlor empire	
(102P)	319-24-6	C-BHC	0.10
(103P)	319-85-7	A-BHC	0.10
(104P)	319-86-8	6-BHC	0.10
(105P)	58-89-9	-BHC (lindane	) <b>0.1</b> U
(106P) 5	3469-21-9	PCB-1212	0.10
(107P) 1	1097-69-1	PCB/1254	0.10
(108P) 1	1104-28-2	PC1-1221	0.10
(109P) 1	1141-16-5	PCB-1232	0.10
(110P) 1	2672-29-6	PC8-1248	0.10
(111P) 1	1096-82-5	PCB-1260	0.10
(112P) 1	2674-11-2 /	PCB-1016	0.10
(113P)	8001-35-2	tezaphene	0.11
	/		
	/	DIOXING	

CONCENTRATION: LOW MEDIUM HIGH (circle one)

1746-01-6 2,3,7,8-tetrachiorodibenzo-p-dioxin 0,

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ORGANICS ANALYSIS DATA SHEET - PAGE 2 BASE/NEUTRAL AND AGID COMPOUNDS

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	117-81-7	STREETENHYLPE (YL)PHT)	HALATE	3000 U
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	-13-01-2	H-FLANTHRENE		5000 U
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CASE	#/SAS #:	-/9820	
DATE	PEC 'D:	03/06/84	
DATA	RELEASE	AUTHORIZED	BY:

LABORATORY' IT/WCTS CONTRACT #: SAS SAMPLE #: LAB BLANK % MOISTURE, NA

9826-10

ORGANICS ANALYSIS DATA SHEET VOLATILE COMPOUNDS

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		LEVEL: MEDIUM	
		MATRIX: OIL	
		GC REPORT #: 5A5 4932 C-1	
		SPL>EXTRACT: BASED ON	1. 0G: 5MLS 50UL: 5MLS
		STANDARD ID: VOA467	
		SENSITIVITY ID: BFD379	
		LABORATORY ID: 28893N1	
		DATE ANALYZED: 03/08/84	
		UNITS: UG/KG	
PP #	CAS #		CONC
====	****		****
27	107-02-8	ACROLEIN	5000. U
37	107-13-1	ACRYLONITRILE	5000. U
4∨	71-43-2	BENZENE	500. U
6V	56-23-5	CARBON TETRACHLORIDE	500. U
7V	108-90-7	CHLOROBENZENE	500. U
107	107-06-2	1, 2-DICHLOROETHANE	500. U
11V	71-55-6	1, 1, 1-TRICHLORDETHANE	500. U
137	75-34-3	1, 1-DICHLORDETHANE	500. U
14V	79-00-5	1, 1, 2-TRICHLORDETHANE	500. U
157	79-34-5	1, 1, 2, 2-TETRACHLOROETHANE	500. U
16V	75-00-3	CHLORDETHANE	500. U
17V	542-88-1	BIS(CHLOROMETHYL)ETHER	500. U
197	110-75-8	2-CHLOROETHYLVINYL ETHER	5000. U
237	67-66-3	CHLOROFORM	500. U
297	75-35-4	1, 1-DICHLORGETHENE	500. U
307	156-60-5	TRANS-1, 2-DICHLORDETHENE	500. U
327	78-87-5	1, 2-DICHLOROPROPANE	500. U
33VT	10061-02-6	TRANS-1, 3-DICHLOROPROPENE	500. U
33VC	10061-01-5	CIS-1, 3-DICHLOROPROPENE	500. U
387	100-41-4	ETHYLBENZENE	500. U
44V	75-09-2	METHYLENE CHLORIDE	2400. A
450	74-87-3	CHLOROMETHANE	500. U
46V	74-83-9	BROMOMETHANE	500. U
47V	75-25-2	BROMOFORM	500. U
48V	75-27-4	BROMODICHLOROMETHANE	500. U
49V	75-69-4	TRICHLOROFLUOROMETHANE	500. U
50V	75-71-8	DICHLORODIFLUOROMETHANE	500. U
51V	124-48-1	CHLORODIBROMOMETHANE	500. U
85V	127-18-4	TETRACHLORDETHENE	500. U
96V	108-88-3	TOLUENE	500. U
87V	79-01-6	TRICHLORDETHENE	500. U
83V	75-01-4	VINYL CHLORIDE	500. U
	67-64-1	ACETONE	5000. U
	78-93-3	2-BUTANONE	5000. U
	75-15-0	CARBON DISULFIDE	500. U
	519-78-6	2-HEXANONE	500. U 🗸
	108-10-1	4-METHYL-2-PENTANONE	500. U
	100-42-5	STYRENE	500. U
	108-05-4	VINYL ACETATE	500. U
	95-47-6	TOTAL XYLENES	500. U

U - ANALYZED FOR BUT NOT DETECTED (REPORTED VALUE IS DETECTION LIMIT - DL) A - DETECTED BELOW QUANTITATION LIMIT (QUANTITATION LIMIT AS 000 170

9820 #: -/9820 £010. 03/06/94 RELEASE AUTHORIZED BY.

LABORATORY: IT/WOTS CONTRACT #: SAS

SAMPLE #: C4889 % MOISTURE: 4,767.

ORGANICS ANALYSIS DATA SHEET - PAGE 2 BASE/NEUTRAL AND ACID COMPOUNDS

LEVEL:	MEDIUM		
MATRIX:	OIL		
QC REPORT #: JAS*	9820-)		
SPL>EXTRACT:	2. 10G: 10ML	1:20	DIL
STANDARD ID:	BNAZ445		
SENSITIVITY ID:	SENS50		
LABORATORY ID:	28893F6		
DATE EXTRACTED:	03/10/84		
DATE ANALYZED:	03/27/84		
UNITS:	UG/KG		

PP #	CAS #		CONC
****	52222		2222
62B	86-30-6	N-NITROSODIPHENYLAMINE	100000, U
63B	621-64-7	N-NITROSODIPROPLYAMINE	100000. U
66B	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	100000. U
67B	85-68-7	BUTYL BENZYL PHTHALATE	100000. U
68B	84-74-2	DI-N-EUTYL PHTHALATE	100000. U
69B	117-84-0	DI-N-OCTYL PHTHALATE	100000. U
70B	84-66-2	DIETHYL PHTHALATE	10000Ó. U
71B	131-11-3	DIMETHYL PHTHALATE	100000. U
72B	56-55-3	BENZO(A)ANTHRACENE	100000. U
73B	50-32-8	BENZO(A)PYRENE	100000. U
74B	205-99-2	BENZO(B&K)FLUORANTHENE	100000. U
75B	207-08-9	BENZO(K)FLUORANTHENE	100000. U
768	218-01-9	CHRYSENE	100000. U
778	208-96-8	ACENAPHTHYLENE	100000. U
78B	120-12-7	ANTHRACENE	100000. U
79B	191-24-2	BENZO(GHI)PERYLENE	100000. U
80B	86-73-7	FLUORENE	100000. U
81B	85-01-8	PHENANTHRENE	100000. U
828	53-70-3	DIBENZO(A,H)ANTHRACENE	100000. U
83B	193-39-5	INDENO(1,2,3-CD)PYRENE	100000. U
84B	129-00-0	PYRENE	1000 <b>00</b> . U
	62-53-3	ANILINE	1000 <b>00</b> . U
	100-51-6	BENZYL ALCOHOL	100000. U
	106-47-8	4-CHLOROANILINE	100000. U
	132-64-9	DIBENZOFURAN	100000. U
	91-57-6	2-METHYLNAPHTHALENE	100000. U
	88-74-4	2-NITROANILINE	100000. U
	99-09-2	3-NITROANILINE	100000. U
	100-01-6	4-NITROANILINE	100000. U

U - ANALYZED FOR BUT NOT DETECTED (REPORTED VALUE IS DETECTION LIMIT - DL) A - DETECTED BELOW QUANTITATION LIMIT (QUANTITATION LIMIT IS 10 X DL)

	LE * - U OD LEAGE AUT	4821 - LABORATORY I 205734 CONTRACT #: S HORIZED BY: Jhome J	Tructs	eample = 04ee % moisture: 47 >	- 6 [6
		ORGANICS ANALYSIS Base/Neutral and ac	DATA SHE	ET NDS	
		LEVEL: ME MATRIX: DI QC REPORT #: JAJ [#] 98 SPL>EXTRACT: 2. STANDARD ID: BN SENSITIVITY ID: SE LABORATORY ID: 26 DATE EXTRACTED: 03 DATE ANALYZED: 03 UNITS: UG	DIUM L 10G:10ML 142445 NS50 893F6 3/10/84 3/27/84	1:20 DIL	
PP #	CAS #			CONC	
21A 22A 31A 34A 57A 58A 59A	88-06-2 59-50-7 95-57-8 120-33-2 105-67-9 88-75-5 100-02-7 51-28-5 524-57-1	2, 4, 6-TRICHLOROPHENOL 4-CHLORO-3-METHYLPHENOL 2-CHLOROPHENOL 2, 4-DICHLOROPHENOL 2, 4-DIMETHYLPHENOL 2-NITROPHENOL 4-NITROPHENOL 2, 4-DINITROPHENOL 4. 6-DINITRO-2-METHYLPHE	- 	100000. U 100000. U 100000. U 100000. U 100000. U 100000. U 100000. U 100000. U	
64A 65A	87-86-5 108-95-2 65-85-0 95-48-7 108-39-4 95-95-4 83-32-9	PENTACHLOROPHENOL PHENOL BENZOIC ACID 2-METHYLPHENOL 4-METHYLPHENOL 2, 4, 5-TRICHLOROPHENOL ACENAPHTHENE		100000. U 100000. U 100000. U 100000. U 100000. U 100000. U 100000. U	-
58 88 98 128 188 208 258 258 248	92-87-5 120-82-1 118-74-1 67-72-1 111-44-4 91-58-7 95-50-1 541-73-1	BENZIDINE 1, 2, 4-TRICHLOROBENZENE HEXACHLOROBENZENE HEXACHLOROETHANE BIS(2-CHLOROETHYL)ETHEF 2-CHLORONAPHTHALENE 1, 2-DICHLOROBENZENE 1, 3-DICHLOROBENZENE	२	100000. U 100000. U 100000. U 100000. U 100000. U 100000. U 100000. U 100000. U	
278 288 358 368 378 378	106-46-7 91-94-1 121-14-2 606-20-2 122-66-7 206-44-0	1,4-DICHLOROBENZENE 3,3'-DICHLOROBENZIDINE 2,4-DINITROTOLUENE 2,6-DINITROTOLUENE 1,2-DIPHENYLHYDRAZINE FLUORANTHENE 4-CHLOROPHENYL RHENYL	FT4ED	100000. U 100000. U 100000. U 100000. U 100000. U 100000. U	
418 428 428 528 538 548	101-55-3 39638-32-9 111-91-1 87-68-3 77-47-4 78-59-1	4-BROMOPHENYL PHENYL E BIS(2-CHLOROISOPROPYL)E BIS(2-CHLOROETHOXY)METH HEXACHLOROBUTADIENE HEXACHLOROCYCLOPENTADIE ISOPHORONE	THER THER TANE ENE	100000. U 100000. U 100000. U 100000. U 100000. U 100000. U	
55B 56B 61B	91-20-3 98-95-3 62-75-9	NAPHTHALENE NITROBENZENE N-NITROSODIMETHYLAMINE		100000. U 100000. U 100000. U	000172

, 1000AA



CASE #/SHD #. -/PSEC DATE REC D: 03/06/84 DATA RELEASE AUTHORIZED BY:

LABORATORY: IT/WCTS CONTRACT #: SAS

SAMPLE #: C4889 % MOISTURE. 4.76 76

D

9820-10

ORGANICS ANALYSIS DATA SHEET VOLATILE COMPOUNDS

		LEVEL:	MEDIUM		
		MATRIX:	OIL		
		QC REPORT #: JAS	9820-1		
		SPL>EXTRACT: Loig	1ML: 5ML I	MECH SOUL: SML	H20
		STANDARD ID:	V0A469		
		SENSITIVITY ID:	BFD381		
		LABORATORY ID:	28893N16		
		DATE ANALYZED:	03/09/84		
		UNITS:	UGIKG		
PP #	CAS #		two	CONC	
====					ł
20	107-02-8	ACRULEIN		5000. U	
30	107-13-1	ACRYLUNIIRILE		5000. U	
40	/1-43-2	BENZENE		1900. A	
6V	56-23-5	CARBUN TETRACHLURIDE		500. U	
	108-90-7			500. 0	
100	10/-08-2	1, 2-DICHLURUEIHANE		500. 0	•
				500. 0	
	75-34-3			500. 0	
147	79-00-5			500. U	_
1.5V	79-34-3		HANE	500. U	-
170			-	500. U	
100				500.0	
177	47-44-7	CULOBOCODM	HER	5000. 0	
230	75-06-3			500.0	
277	154-40-5	TRANG-1 2-DICHLORDETH	SNE	500.0	
300	130-00-3		ENC	500.0	
SZV			DENE	500.0	
2201	10061-02-8			500.0	
3940	10081-01-5	ETHVI BENZENE		500.0	
	75-09-2	METHYLENE CHLORIDE		9400	
	74-97-2	CULIDOMETUANE		500 11	
440	74-87-9	BROMOMETHANE		500.0	
470	75-25-2	BROMOFORM		500.0	
480	75-27-4	BROMODICHLOROMETHANE		500 U	
490	75-69-4			500 U	
50V	75-71-8	DICHLORODIELUOROMETHAI		500 U	
51V	124-48-1	CHLORODIBROMOMETHANE		500 U	
854	127-18-4	TETRACHLOROETHENE		48000	
867	108-88-3	TOLUENE		500 U	
870	79-01-6	TRICHLORDETHENE		500 U	
887	75-01-4	VINYL CHLORIDE		500 4	
~~.	67-64-1	ACETONE		5000 U	
	78-93-3	2-BUTANONE		15000 A	
	75-15-0	CARBON DISULFIDE		500. U	
	519-78-6	2-HEXANONE		500 U	
	108-10-1	4-METHYL-2-PENTANONE		500 U	
	100-42-5	STYRENE		500 U	6001479
	108-05-4	VINYL ACETATE		500. U	UUUT ( )
	95-47-6	TOTAL XYLENES		500 M	

- ANALYZED FOR BUT NOT DETECTED (REPORTED VALUE IS DETECTION AROOO173 - DETECTED BELOW QUANTITATION LIMIT (QUANTITATION LIMIT I

SAS #: -/9820 REC1D: 03/06/84 RELEASE AUTHORIZED BY:

I

LABORATORY: IT/WOTS CONTRACT #: SAS SAMPLE #: C4887 % MOISTURE: 11.597.

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ORGANICS ANALYSIS DATA SHEET - PAGE 2 BASE/NEUTRAL AND ACID COMPOUNDS

•				
	·	LEVEL: MATRIX: GC REPORT #: SAS SPL>EXTRACT: STANDARD ID: SENSITIVITY ID: LABORATORY ID: DATE EXTRACTED: DATE ANALYZED: UNITS:	MEDIUM DIL 2.45G:10ML 8NAZ445 SENS50 28893F8 03/10/84 03/27/84 UG/KG	1:50 DIL
2P #	CAS #			CONC
				2223
6EB	86-30-6	N-NITROSODIPHENYLAMI	NE	250000. U
53B	521-54-7	N-NI RUSUDIPROPLYAMI	NE	250000.0
205			MALAIL	250000.0
ು/೮ .ವಾ	83-68-7	DINE BENZYE PHIMALA		250000.0
689	* 84-74-2	DI-N-BUIYL PHIHALATE	•	250000.0
070 700	9/-44-0	DIETUVI BUTUALATE	•	250000.0
713	101-11-0	OTHETUVI BUTUALATE		250000.0
7.38	54-55-3	BENIZO (A) ANTHRACENE		250000.0
720	50-32-3	DENZO (A) AVAENE		250000.0
74B	205-99-2	BENZO (B&K) EL UORANTHE	NF	250000 U
758	207-08-9	BENZO (K) FLUORANTHENE		250000. U
768	218-01-9	CHRYSENE		250000, U
779	208-96-8	ACENAPHTHYLENE		250000, U
788	120-12-7	ANTHRACENE		250000. U
79B	191-24-2	BENZO(GHI)PERYLENE		250000. U
80B	86-73-7	FLUORENE		250000. U
81B	95-01-9	PHENANTHRENE		250000. U
82B	53-70-3	DIBENZO(A, H)ANTHRACE	NE	250000. U
83B	193-39-5	INDENO(1,2,3-CD)PYRE	INE	250000. U
84B	129-00-0	PYRENE		250000. U
	62-53-3	ANILINE		250000. U
	100-51-6	BENZYL ALCOHOL		250000. U
	106-47-8	4-CHLOROANILINE	· ·	250000. U
	132-64-9	DIBENZOFURAN		250000. U
	91-57-6	2-METHYLNAPHTHALENE		250000. U
	88-74-4	2-NITROANILINE		250000. U
	99-09-2	3-NITROANILINE		250000. U
	100-01-6	4-NI FROANILINE		250000. U

U - ANALYZED FOR BUT NOT DETECTED (REPORTED VALUE IS DETECTION LIMIT - DL) A - DETECTED BELOW QUANTITATION LIMIT (QUANTITATION LIMIT IS 10 X DL)

000174

AR000174

	AS 40 -0	9820 LABURATORY	: 17, WOTS	1 WOLE # 04837	·
	ELEASE AUT	HORICED BY: 1	NRI -		<b>D</b>
	/	Inone	4 Acumo-	r	
		ORGANICS ANALY Base/Neutral and	SIS DATA SHS ACID COMPOU	eet Inde	_
		LEVEL: MATRIX:	MEDIUM		
/		QC REPORT #: JAJ ^A SPL>EXTRACT: STANDARD ID: SENSITIVITY ID: LABORATORY ID: DATE EXTRACTED: DATE ANALYZED: UNITS:	- 732C- \ 2.450:10ML BNAZ445 GENS50 28873F8 03/10/84 03/27/84 UG/KG	1:50 DIL	·
2P #	CAS #			CONC	
		2. 4. A-TRICHLOBORHEND			
224	59-50-7			250000.0	
244	95-57-8	2-CHLOROPHENOL		250000.0	
31A	120-33-2	2, 4-DICHLOROPHENGL		250000. U	
34A	105-67-9	2, 4-DIMETHYLPHENOL		250000. U	
57A	88-75-5	2-NITROPHENOL		250000. U	
58A	100-02-7	4-NITROPHENOL		250000. U	
59A	51-28-5	2,4-DINITROPHENOL		250000. U	
60A	534-52-1	4,6-DINITRO-2-METHYL	PHENOL	250000. U	
64A	87-86-5	PENTACHLOROPHENOL		250000. V	
65A	108-95-2	PHENOL		250000. U	
	. 65-85-0	BENZOIC ACID		250000. U	
	75-48-/ 108-38-4			250000. U	
	108-39-4		1	250000.0	
18	83-32-9	ACENAPHTHENE		250000.0	-
58	92-87-5	BENZIDINE		250000.0	
88	120-82-1	1,2,4-TRICHLOROBENZE	NE	250000 U	
9B	118-74-1	HEXACHLOROBENZENE		250000, U	
12B	67-72-1	HEXACHLORDETHANE		250000. U	
18B	111-44-4	BIS(2-CHLOROETHYL)ET	HER	250000. U	
20B	91-58-7	2-CHLORONAPHTHALENE		250000. U	
25B	95-50-1	1, 2-DICHLOROBENZENE		250000. U	
26B	541-73-1	1, 3-DICHLOROBENZENE		2500 <b>00</b> . U	
27B	106-46-7	1, 4-DICHLOROBENZENE		250000. U	
28B	91-94-1	3, 3'-DICHLOROBENZIDI	NE	250000. U	
35B	121-14-2	2, 4-DINITROTOLUENE		250000. U	
366	606-20-2	2, 6-DINITROTOLUENE	~	250000. U	
3/6	122-00-1	1, 2-DIPHENYLHYDRAZIN		250000. U	
37B 40B	7005-72-3	ALCULOBOBLENVI BLENVI	FTUSO	250000.0	
418	101-55-3		FTHER	250000.0	
428	39638-32-9	BIS (2-CHI ORDISOPROPY	DETHER	250000.0	
433	111-91-1	BIS(2-CHLORDETHOXY)M	ETHANE	250000. U	
52B	87-68-3	HEXACHLOROBUTADIENE	-	250000. U	
53B	77-47-4	HEXACHLOROCYCLOPENTA	DIENE	250000. U	
548	78-59-1	ISOPHORONE		250000. U	
55B	91-20-3	NAPHTHALENE		250000. U	A A A MA
568	78-75-3	NITROBENZENE		250000. U	000175
- 618	62-75-9	- N-NITROSODIMETHYLAMI	NE	250000. U	-

AR000175

CASE ///SAS #: -/9820 DATE REC'D: 03/06/84 DATA RELEASE AUTHORIZED BY:

> CAS # -----

PP #

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27

3V

4V

6V

77

107

11V

13V

14V

157

16V

LABORATORY: IT/WCTS CONTRACT #: SAS

SAMPLE #: C4887 % MOISTURE: 11.59%

982C-10

ORGANICS ANALYSIS DATA SHEET VOLATILE COMPOUNDS

LEVEL: MEDIUM MATRIX: OIL SAS 9820-1 QC REPORT #: SPL-->EXTRACT: 1. 000G+5ML MEOH---50UL: 5ML H2 STANDARD ID: V0A467 SENSITIVITY ID: **BFD379** LABORATORY ID: 28893N6 DATE ANALYZED: 03/08/84 UNITS: UG/KG CONC **** ACROLEIN 5000. U 107-02-8 ACRYLONITRILE 5000. U 107-13-1 71-43-2 BENZENE 3500. A CARBON TETRACHLORIDE 56-23-5 500. U 108-90-7 CHLOROBENZENE 500. U 107-06-2 1,2-DICHLOROETHANE 500. U 1, 1, 1-TRICHLORDETHANE 71-55-6 500. U 1,1-DICHLORDETHANE 500. U 75-34-3 1, 1, 2-TRICHLOROETHANE 500. U 79-00-5 1, 1, 2, 2-TETRACHLOROETHANE 500. U 79-34-5 CHLOROETHANE 500. U 75-00-3

17V	542-88-1	BIS(CHLOROMETHYL)ETHER	500. U
197	110-75-8	2-CHLOROETHYLVINYL ETHER	5000. U
237	67-66-3	CHLOROFORM	500. U
297	75-35-4	1, 1-DICHLORDETHENE	500. U
VOE	156-60-5	TRANS-1, 2-DICHLORDETHENE	500. U
327	78-87-5	1,2-DICHLOROPROPANE	500. U
TVEE	10061-02-6	TRANS-1, 3-DICHLOROPROPENE	500. U
33VC	10061-01-5	CIS-1, 3-DICHLOROPROPENE	500. U
38V	100-41-4	ETHYLBENZENE	500. U
4 <b>4</b> V	75-09-2	METHYLENE CHLORIDE	25000.
45V	74-87-3	CHLOROMETHANE	500. U
46V	74-83-9	BROMOMETHANE	500. U
47V	75-25-2	BROMOFORM	500. U
48V	75-27-4	BROMODICHLOROMETHANE	500. U
49V	75-69-4	TRICHLOROFLUOROMETHANE	500. U
50V	75-71-8	DICHLORODIFLUOROMETHANE	500. U
51V	124-48-1	CHLORODIBROMOMETHANE	500. U
85V	127-18-4	TETRACHLOROETHENE	42000.
86V	108-88-3	TOLUENE	770. A
87V	79-01-6	TRICHLOROETHENE	500. U
88V	75-01-4	VINYL CHLORIDE	500. U
	67-64-1	ACETONE	5000. U
	78-93-3	2-BUTANONE	15000. A
	75-15-0	CARBON DISULFIDE	500. U
	519-78-6	2-HEXANONE	500. U
	108-10-1	4-METHYL-2-PENTANONE	500. U
	100-42-5	STYRENE	500. U
	108-05-4	VINYL ACETATE	500. U
	95-47-6	TOTAL XYLENES	500. U

U - ANALYZED FOR BUT NOT DETECTED (REPORTED VALUE IS DET A -DETECTED BELOW QUANTITATION LIMIT (QUANTITATION LIMIT

AR000176



TO: USEPA Region III NUS Corporation 992 Old Eagle School Road Suite 916 Wayne, PA 19087 Attn: Russell Sloboda

DATE REPORTED: PROJECT CODE: ORDER NUMBER:

Rec'd:

September 12, 1984 SAS # 982C 28893A Page 1 of 2

March 6, 1984

Results of Re-analysis of Pesticide Fractions Of Samples C4887 and C4889 for PCB's Original Data Submitted April 3, 1984

#### Enclosures

Enclosed are results for samples in SAS # 982C. Samples analyzed under this SAS are associated with samples in Case # 2420.

The results enclosed are for the re-analyzed Pesticide fractions of samples numbered C4887 and C4889. Results of the re-analysis of sample C48885 will be sent as soon as they are completed.

The copy of this data sent to SMO includes an extra set of the Case Summary and Data Summary sections of this Case Data Package.

Approved by:

Linda R. Krokenberger Assistant Lab Manager

Domino Sat Gall

Data Receipt Acknowledgement - Please Sign, Date and Return in envelope provided.

Signature ____

Deta

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000177 AR000177

Accredited by the American Industrial Hygiene Association



360 V.est 11th Street / New York, New York 10014 (212)255-2100

Note to SAS 982C

Samples were oxidized using Schoniger combustion into a nitric acid matrix. Dilution factor was 1: 200.

The preparation blank contained some metals above detection levels and lead, well above. This may be due to contamination and the lead results are not reported. although they do appear on the raw data.

The sample chosen to perform a duplicate analysis (MC 3751) resulted in widely varying results for some of the metals. We feel, therefore, that there was incomplete combustion in one and are reporting the results for the hither one. The "duplicate" was the sample spiked.

D. Hessemer 8/14/84

Demino Scilu 8311-12



APPENDIX E

000179 AR000179

## Detection Limits Results

Exceptions: Detection limits were less than or equal to the required detection limits specified in $WA 83 - A196$ . Yes $V$ No Exceptions:
Detection limits were less than or equal to the required detection limits specified in $WA83-A196$ . Yes $V$ No Exceptions:
Detection limits were less than or equal to the required detection limits specified in $WA 83 - A196$ . Yes $V$ No Exceptions:
Detection limits were less than or equal to the required detection limits specified in $WA 83 - A196$ . Yes $V$ No Exceptions:
Detection limits were less than or equal to the required detection limits specified in $WA 83 - A196$ . Yes $V$ No Exceptions:
Exceptions:
Exceptions:
- -
· · ·
Instrument Sensitivity Reports
Instrument sensitivity reports were documented for all parameters:
YesNo_
comments. Detection lineite mene de munertel in particientes mistanes
Sensitivity must have been adequate.
Other Remarks Concerning this Case:
Although Task I metals where reported as LCRDL, the dot of with
Not affected since there were no unquestioned results
that were within CRDL - All results above 5x CRDL could either
be questioned by blanks on not questioned. However all results
within 5X CRDL were questioned by blanks above CRDL.
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AR000180

• 11111
## NUS CORPORATION SUPERFUND DIVISION

QA PROJECT NOTES

CASE NUMBER SAS 982C										
	I.D. I	CSB IN 3/15/84	171AL 15:15	ID 3	56 FINA 115 16	:10	ID			<u></u>
METALS	FOUND	TRUE	% Rec	Former	True	% Rec	Found	TRUE	% Rec	
Aluminum	236			234						
Boron	.478	.500	96	475	,500	95				
BARIUM	.453	.500	91	.452	.500	90				
Bocyllium	.491	.500	98	.490	,500	97				
Calcium	219			216						
Chromium	.451	,500	90	.448	.500	90				
Cobalt	.411	.500	82	.406*	.500	81*				
Cooper	.574	,500	115	.580	.500	116*				
IRON	212			210						
Maanesium	228			226					-	
MANGANESE	.429	<i>。50</i> 0	86	.419	.570	34				
Nickel	.435	.500	87	.431	.500	36	•			
Silver	.459	.500	92	.458	.500	92				
Sodium	205			203						
VANADium	.450	.500	90	.447	,500	87				
Zinc	.506	.500	101	.504	.500	101				
* Asterisked	value	s outs	ide co	NTROL	RANGE	•				
Comments:	CONTR	ol RAN	ze ad	opted -	Forre	view (	purpo	ser E	35-115	70
Asterisked	value	o not	- Camn	nented	UDON	are	NOT	suff	iciently	
out of RA	wal to	QUEST	ion s	ample	Result	· · · · · · · · · · · · · · · · · · ·			ð	
	- J	U		<u></u>				<u></u>		
	······									,
	<u></u>	<u> </u>			·· <b>b</b>					
Lan <u>a (a. 19</u> 76). 1997 - December J. (a. 1997).										
5 443A 58 1182								گریما و مصنوع می می می اور		
			:		A	R00(	181	0(	0181	

## Initial Calibration Verification and Continuing Calibration Verification

Yes 🗸 N

Documentation indicates calibrations were performed and checked every ten samples:	Y es 🗸
Exceptions:	

Calibrations and	verifications	were all	within the	he control	limits specified i	n
WA 83-A196	:				-	

Outliers are listed below:

	Acceptable	Calibration	% of	
Parameter	Range (%)	Identifier	True Value	Comments
		· · · · · · · · · · · · · · · · · · ·		
		•		
				· · · · · · · · · · · · · · · · · · ·
		· · · · · · · · · · · · · · · · · · ·		
A DESCRIPTION OF A DESC	······································			

## Interference QC Results.

Documentat	ion indicates int	erference QC :	samples were ru	n before an	d after every	/ ten samples:	NA
Exceptions:	INterference	samples Ruy	v at beginnin	a b end	of sample	RUN as per	IF.
			0	9	у с		

Interference QC results were all within the control limits specified in Those adopted for review purposes of 85-115%. See next page for results. Yes_ No

Exceptions:

Parameter	Acceptable Range (%)	Calibration Identifier	% of True Value	Comments
				000182
	÷,			
	<u> </u>			HILUUU102

# Duplicate Analysis Results

The applicable duplicate pairs are:

sample no.	MC-3751	Synthetic VStd.		
Field duplicate				
Lab duplicate				
sample level				
sample matrix				
Fraction	ALL Except TR, Sn	Tl, sn		

The relative percent difference (RPD) for each parameter group was evaluated. The duplicate analysis RPD acceptance criteria should be:

<u>maximum acceptable</u><u>Fraction</u><u>Percent Difference</u>Oils40%ADOPTED for<br/>review purposes.

The RPD's exceeding the maximum acceptable percent difference were: •

Comparison Fraction Compound Actual RPD Sample | conc. conc. (resulto BDL) 121.6% MC-3751 Aa 10 41 mg 11 (1)41.2% TT SN 27 41 I 11 Ni 176.7% 167 2710 11 (I)200% I MN 19 <10 11 I 161.3% 225 2100 ZN 11 I 111.9% AL 492 139 n I Cu 176.4 % 2660 167 h. T Fe 153 % 1510 201

(1) NOT SUfficiently out of range to question sample results (for MN becaus of low kerel conc. (2) LAB NARRATIVE started "The sample chosen to perform a duplicate quality is (MC- 3751) <u>Resulted</u> in widely ugaying results for some of the metals. We feel, therefore, <u>that there was incomplete combustion</u> in one and are reporting results for the comments: higher one." As anexist the reported results for the constituents in sample MC-3757 may not reflect the average conc. actually present. ARTUUUT83 000183

#### MATRIX SPIKE RECOVERIES

Sample No.	MC - 3751	MC-3750			
Field Spike			· ·		
Lab Spike	:/	1			-
Matrix	OIL	OIL			-
Conc. Level	MeD	MED			
Method Std.	· · · · · · · · · · · · · · · · · · ·		·		1
Fraction	ALL SNICH	SN,Cd		1	

All matrix spike recoveries were within the established control ranges specified in; IFB WA83-A196, Exhibit E, Table 2.

Exception(s):

Parameter	Accepted Range (%)	Actual <u>% Rec.</u>	Sample <u>Number</u>	Org. <u>Result</u>	Spike Added	Spike <u>Result</u>	Units
							-
	•						
			· · ·				

Comments:

AR000184 000184

No

			BLA	NK ANAL	YSIS RESULTS
TASK	TYPE CONC	MATRIX	SAMPLE #	SOURCE OF H20	CONTAMINANTS (CONCENTRATION / DETECTION LIM
ALL	Lab L Prep.	●/AQ	D-814 1	Chennech	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
ALL	LAB LO	frq	D-BLK II	Chentech	B(2/44412 / 100) Cr(454412 / 10)1 Al (9/4412 / 200)2 Sb(84412 / 20)2 Su(1/64414 / 20)2
	Prep.				Cd (10. Gug/L/I)1 Pb (Lab reported "hi" / 5)4
ALL	Lab Lo/F	R	<i>R-вц</i> к (З)	Chemtech	
· · ·				-	
		•			

LABORATORY REPORTED FIELD BLANK DATA IS COMPARED WITH THE SAMPLE DATA IN A TABULATION FORM WITH SAMPLE ANALYTICAL DATA SUMMARY. <u>COMMENTS:</u> MULTIPLY Aqueons results by 250 to get solid units X5 For questioning

(1) RESULT REPORTED BY LABORATORY AND CONFIRMED BY REVIEWER.

(2) RESULT INFERRED FROM RAW DATA

(3) Several reagent blanks listed, highest R. Buc Result tabulated

(4) detection LAG NARRATIUS The oreparation blank CONTRINED above Stated nd the los be Q well This may above ANIC Reporter resi NO паат **N** OMDUNO Unkarowe to this SAmple RIN 1.46 did NOT in all LOOM Assal dre CANFid 40 ه د ا this REVIEW tion RŸ 'evel 000 000185

ARUUU185

DATA				r												
COMPLETENES	S CONC./ MATRIX	Moil	M/OIL	m/oil												Γ
	TRAFFIC REPORT # MC	3749	3750	3751												
	LAB I.D. #62-182A	01	02	03												
FIELD QC	BLANK											-				
	DUPLICATE		JAN	J												
	SPIKE		1 Cd 1 54	1												F
TASK I :	RAW DATA	<b>√</b> -														
ICAP OR AA. METALS	TAB. RESULTS	/-														Γ
	TAB. D.L.'s	V -														Γ
	QA FORM	<b>/</b> -														
	ICAP INTER. QC	✓-														
	INSTR. SENS.	M5-														
TASK II :	RAW DATA	1-														
AA:	TAB. RESULTS	1-		<u> </u>		L					ļ					
METALS	TAB. D.L.'s	<u>v</u> -		<u> </u>												
	QA FORM	<u>/-</u>		<u> </u>										<u> </u>		
	INSTR. SENS.	MS-														
TASK II:	RAW DATA	/-														
AA:	TAB. RESULTS	<u> /-</u>		<u> </u>										-		
MERCURY	TAB. D.L.'s	1-														
	QA FORM	<u>/-</u>														
•	INSTR. SENS.	MS-		<u> </u>												
TASK III :	RAW DATA	NA		<u> </u>								<u> </u>				
CIANIDE	TAB. RESULTS	NA-					<u> </u>				ļ	<u> </u>	<u> </u>	<u> </u>	ļ	$\downarrow$
	TAB.D.L.'s	NA-		<u> -</u>												
	QA FORM.	NA									L					
	INSTR. SENS.	NA-		<u> </u>					L					<u> </u>		
OTHER (SPECIFY):	RAW DATA			<u> </u>						<u> </u>	ļ	<u> </u>	<u> </u>	<u> </u>	ļ	_
	TAB. RESULTS	<u> </u>	<u> </u>		<u> </u>		ļ		<u> </u>	ļ	<u> </u>	ļ		<u> </u>		<u> </u>
	TAB. D.L.'s		<u> </u>	<u> </u>	ļ	ļ	ļ	<u> </u>	ļ	ļ	ļ		<u> </u>		<u> </u>	+
	QA FORM			ļ					<u> </u>			<u> </u>	1	ļ	ļ	_
	INSTR. SENS.					<u> </u>			Ļ	ļ	-	<u> </u>			ļ	<u>_</u>
OTHER (SPECIFY);	RAW DATA	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	ļ	ļ	<u> </u>	<u> </u>	<u> </u>				4
7	TAB. RUSULTS	<u> </u>	<u> </u>	<u> </u>	<u> </u>	ļ	<u> </u>	<b></b>	ļ	ļ	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	┿
	TAB. D.L.'s	<u> </u>		ļ			ļ	<u> </u>		-	<u> </u>		<u> </u>	<u> </u>	ļ	╄
	QA FORM	<b> </b>	ļ	<u> </u>	ļ	<b>_</b>	<u> </u>	ļ	<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>		+
INSTR. SENS.								ģ.								
COMMENTS:	<del> </del>							ر ان است میں								
													<u>66</u>	<del>n 1 (</del>	<del>. t</del>	

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<u>ACCEPTABLE</u>: Data is within established control limits, or the data which is outside established control limits does not affect the validity of the analytical results.

ACCEPTABLE WITH EXCEPTION(S): Data is not completely within established control limits. The deficiences are identified and specific data is still valid, given certain qualifications which are listed below.

<u>QUESTIONABLE</u>: Data is not within established control limits. The deficiences bring the validity of the entire data set into question. However, the data validity is neither proved nor disproved by the available information.

<u>UNACCEPTABLE</u>: Data is not within established control limits. The deficiences imply the results are not meaningful.

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IDD NO:F3-8311-12	EPA SITE NO.: REGION:								
QUALITY ASSURANCE REVIEW OF INORGANIC ANALYTICAL DATA PACKAGE									
ase No.: SAS 982C / 2420 Contract No.: 168-01-6829 for LAS Contract Laboratory: Chemtech . pplicable IFB No.: WA83-A196 * Reviewer: Atwood F. Davis eview Date: 12/7/84	Applicable Sample No's.: MC-3749, MC-3750, and MC-3751								

he inorganic analytical data for this case has been reviewed. The quality assurance evaluation is summarized in the following table:

eviewer's Evaluation*		Fraction		
	TASK I ICP or AA METALS	TASK II FURNACE AA METALS	TASK II COLD VAPOR AA MERCURY	TASK III CYANIDE [I]
Acceptable		<u> </u>	1	N/A
cceptable with exception(s	1(3,4)	V(3,4)	· ·	
Questionable				-
nacceptable				

* Definitions of the evaluation score categories are listed on next page.

is evaluation was based upon an analysis of the review items indicated below:

DATA COMPLETENESS

BLANK ANALYSIS RESULTS

MATRIX SPIKE RESULTS

DUPLICATE ANALYSIS RESULTS

INITIAL CALIBRATION VERIFICATION

CONTINUING CALIBRATION VERIFICATION

- INTERFERENCE QC RESULTS
- DETECTION LIMITS RESULTS
- INSTRUMENT SENSITIVITY REPORTS

(1) STANDARD ADDITIONS RESULTS

Data review forms are attached for each of the review items indicated above.

+No errors noted, no form attached.

Spot Check performed.

- mments: * IFB Adapted for review purposes for recoveries, RPD, 2 Other QA RANges. LINOT ANALYZED in Oil Samples.

[") Not ADDI CABLE all results within control ranges for matrix spike

۳.

1.) See OLANK ANALysis results.

(U) de duplicate analysis result

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Detection Limits Results

Excentions	
<u></u>	
<u></u>	
Detection limit	s were less than on equal to the required detection limits
specified in	WA 83 - A196 Yes / No
Exceptions	
	Instrument Sensitivity Reports
instrument sens	Itivity reports were documented for all parameters:
	YesNo
Somerta Silve	· CEDI (contract paging of Det limite)
comments: Since	e CRDL (contrast required Det. limits) were met e
comments: Since cumented in a	e CRDL (contract required Det. limits) were met e all Analyses, sensitivity is assumed to have been adequired the data should not be affected.
comments: Since commented in a and as a res	e CRDL (contract required Det. limits) were met e all Analyses, sensitivity is assumed to have been adequ rult the data should not be affected.
Comments: Since <u>cumented in a</u> ud As A res Other Remarks C	e CRDL (contract required Det. limits) were met e <u>all Analyses, sensitivity is assumed to have been ad</u> equ rult the data should not be affected.
Comments: Since cumented in a nd As A res Other Remarks C	e CRDL (contract required Det. limits) were met e <u>all Analyses, sensitivity is assumed to have been ad</u> equ rult the data should not be affected. <u>Concerning this Case</u> :
Comments: Since cumented in a nd As A res Other Remarks C	e CRDL (contranct required Det. limits) were met e <u>all Analyses, sensitivity is assumed to have been ad</u> equ rult the data should not be affected. <u>Concerning this Case</u> :
Comments: Since <u>cumented in a</u> ud As A res Other Remarks C	e CRDL (contract required Det. limits) were met e all Analyses, sensitivity is assumed to have been adequ ruit the data should not be affected. Concerning this Case:
Comments: Since cumented in a nd As A res Other Remarks C	e CRDL (contract required Det. limits) were met e all Analyses, sensitivity is assumed to have been adequ ruit the data should not be affected.
Comments: Since cumented in a nd As A res Other Remarks C	e CRDL (contract required Det. limits) were met e all Analyses, sensitivity is assumed to have been adequ ruit the data should not be affected.
Comments: Since cumented in a nd As A res Other Remarks C	e CRDL (contranct required Det. limits) were met e all Analyses, sensitivity is assumed to have been adeque ruit the data should not be affected.

NUS CORPORATION SUPERFUND DIVISION

QA PROJECT NOTES

	I.D.	1-25-24	Thrank	ID 2-		10:18	ID 2.	F. MA-	4.03	
Metals	FOUND	True	% Rec	Found	True	× Rec	Found	Teue	% Rec	
Aluminaum	-14			421			4 C			
BORON		<u>,5</u> 90	89	.475	.500	95	,47F	.500	95	
Barium	.467	.507	9/2	.437	.500	87	.431	.500	86	
Bocyllium	.4100	.500	A2	<u>~490</u>	.500	98	.509	.500	172	
Calcium	426		/	477			412			
Cheomum	:45%	1.523	91	.4/01	<i>_</i> 500	92	.452 .	.590	92	
Cobalt	·0131	(En) /	19.K	.382	,500	765	.382	.57)	7.6×	
Copper	.557	.3) 2/	ţ;:	.605	,500	12.1×	.609	.570	122	
TRON		<u> </u>		388			377			
Maquesium	4-17			47/3		ļ	429		-	
MANGANESE	:420	1500	34	.433	,500	37	-4.3	.555	23	
Nickel	.207	1.500	61*	.438	505	્સ	.444	.500	29	
Silver	.47.2	.517	86	ج لن	.520	34*	.4.1	.500	82*	
Sodium	:7			312			338			
VANADium		.500	87	.457	.570	97_	oH 51	.570	70	
Zinc	int?	.500	8/8	فالمناب	.500	81	,47,	.Д)	94	
+ 14-11		Iluzu ?	אני אנור	e cr	NGC C	Adop-	1 For	12010	w 85	-115
Comments:	<u>(1) IC</u>	5B NJ	5 11:2	Q 50	hiples (	CORNEDO	nding to	, et	that has a	
RE-RUN DY	<u>s 3/2/2.</u>	1- 20	1, 2 SA	mulai	1196.2	166 21	116-270	21.		
ICSB 16:	18 RUN	Bizhau	" Dring A.	nitra.	N2CAL!	622.00	x)		···	
incient see	c ija Ingi ti	126 AD 2 - 2/1-25	D) (0 (7)3 M	SARAY)	te j	1 JON -	. <u>Nor</u>	5 1/2 1/1	Fican	- í., 

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NUS CORPORATION SUPERFUND DIVISION

QA PROJECT NOTES

INTERF	IRENCE	Stan	daeds	(ICP)	)					
CASE 1	JUMBER	<b>L</b>	1				•			
	<b>I</b> .D. 3	2-84	1.49	ID 3.	ID 3-2-87 9:58			ID 3-2-81 21 12		
METALS	FOUND	TRUE	%Rec	Found	True	% Ra	Found	True	% Rec	
Aluminum	424			419			437			
Boron	.447	.500	89	.445	.500	89	.486	.500	9.7	
BARIUM	.436	.500	87	.432	.500	86	.456	.500	21	
Beryllium	.45%	,500	91	-4156	,500	93	.511	.500	177_	
Calcium	379			381			422			
Chromium	.47.7_	.500	84:₩	.427	.500	85	.465	.500	22	
Cobalt	.352	.500	70*	,358	.500	72*	.400	.500	80K	<del></del>
Copper	.617_	.500	122*	591	-500	1187	.600	.500	120*	
IRON	357			358			400			
MAQUESIUM	415			476			439		-	<u> </u>
MANGANESE	.386	.500	77*	.387	,500	1:3*	.428	.500	215	
Nickel	.393	.500	79*	.401	.500	·)*	.454	.500	12.	
Silven	.39%	.500	7.7*	.396	.500	14×	.418	.500	844	
Sodium	37'			361	•		36)			
VANADium	,405	,500	81*	.417	.500	82+	<i>7 د.</i> ن.	.500	27	
Zinc	,424	.500	85	0422-	- 500	84 *	24.03	,500	97_	
XA: MALICE	1/2/ 120	247 2	RANDY	اليا مرد لمن	for 1	20.en)	24-10	5 33		
Comments:	He ten.	shed 1	<u>171 m.</u>	po	DATARA	+3 21	10 m - 1	NOT 11	aNIFICA	Livet .
DUT OF RAI	use to	GUP :-	20 51	mple	125.1-1	· · · · · · · · · · · · · · · · · · ·			<u> </u>	<i>v</i>
<b></b>		V		•						-
			······							

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## Initial Calibration Verification and Continuing Calibration Verification

Documentation indicates calibrations were performed and checked every ten samples: Exceptions:



#### Outliers are listed below:

	Acceptable	Calibration	% of	
Parameter	Range (%)	Identifier	True Value	Comments
······································				

#### Interference QC Results

Documentat	ion inc	licates ir	nterferen	nce QC sa	mples v	vere ru	n befo	re ar	nd after	every ten sar	nples:	<u>NA</u>
Exceptions:	120.	IFB	CUN	@ 020;	NNING	5 2	Nd	08	RUN	MINUTAL	twice	207
shift.	Hour	een Z-	25-85	final 1	un à	hrs. 1	AK	0	2-16 4	(·07		1

Interference QC results were all within the control limits specified in adopting for review pure  $\frac{32}{85-115} = \frac{85-115}{72}$ :

Exceptions:

Parameter	Acceptable Range (%)	Calibration Identifier	% of True Value	Comments	
					000192
			-	A	R000192



Yes / N

# Duplicate Analysis Results

sample no.	MC-2969	MC-3732	MC-3747		т 2. Х.Х.		and a state of the
Field duplicate	•		5 BM			÷.	
Lab duplicate						ı	a de la composición d
sample Tevel	Lo	Lo	Lo	1 <u>1</u>		,	
sample matrix	AQ	AQ	AQ				
Fraction	CN-	ALC	T.T.				

The applicable duplicate pairs are:

VALU2S LIZOT KOM MPAISE

The relative percent difference (RPD) for each parameter group was evaluated. The duplicate analysis RPD acceptance criteria should be:

• • • • • •		maximum accepta	ble and the second second
	action	Percent Differe	nce · · · · · · · · ·
ALL	AQUROUS	20%	ADOPTE: FOR
ALL	Socia	407	Review purposes

The RPD's exceeding the maximum acceptable percent difference were:

Comparison Fraction Compound Actual RPD Sample conc. conc. T ~~~ (1) 5.8 U.S M2-3-33 CADMI IW. I MC-3732 379 41 LEAD 4.5.7 51  $\Xi$ 110-375 TiN 35.3 30 u 2.00 rk-3741 10.10 35.1 475 ., MARINGTUN 25.2 سے من 58: Ш Tin AR000193 000193 Comments: RPD S.AN. Fich. 112 NOT to sul SAM R15117.

Significanth,

kange to gues HON

RESULT:

## MATRIX SPIKE RECOVERIES

Sample No.	MC. 2969	MC -2737_	MC .3747			 \
Field Spike						
Lab Spike		1	]			
Matrix	. 12		0.2		 	
Conc. Level	1_2	10	60			
Method Std.	l .			· · ·	 	· ·
Fraction	CN-	ALL	T.T		 	{

All matrix spike recoveries were within the established control ranges specified in; IFB WA83-A196, Exhibit E, Table 2.

Exception(s):

Parameter	Accepted Range (%)	Actual <u>% Rec.</u>	Sample <u>Number</u>	Org. <u>Result</u>	Spike Added	Spike <u>Result</u>	<u>Units</u>
	· · · · · · · · · · · · · · · · · · ·	· ·					<b></b> .
					•		
	<u> </u>		· ·		}		[
			 				<b></b>
	<u> </u>						
					······		
	<u>}</u>						

.

Comments:

000194 Arooo194

No

	BLANK ANALYSIS RESULTS											
TASK	TYPE CO	C MATRIX	SAMPLE #	SOURCE OF H20	CONTAMINANTS (CONCENTRATION / DETECTION LI							
I	R.BLK		RALK	CHEMICLE	Be (.002 mg 1- 1.505 2							
	LAG	-7.172	3-02-84									
I	LAB L	OJAR	D-OLL	CHENGELSE	NONE FOINE							
	3-02	-84	D-BLK-Z	CHEMERA	NON-2 FOALL							
I	LAGL	0.4 x	RELA	C14607-51-	NONE FOUND							
Ĩ	LAB LO	'A Q	D-BUKI	CHEMP 200	NONE FOUND (T2 KYONHO & THE FIFT.							
-	2-15	-31	D-BLKI	CHR. MACLAN	Made Founds ( )							
I	R LAB	LOIAR	R-BLC	CHEMTSCH	AI (132 mal 1.05) ~ Ca. ( 205 mal 1.00) -							
	2 15-3	4 16:47	<u> </u>	ļ	E2(.002Ma - 1005 = F2 ( 03- pa - 1.02) 2							
II -	FILLD	/	MC-3754	NUS	Cu(.05.701/1.02)							
	0	INX		]	te Calibra 12/02/1							
					Se la sente Legos L							
	T. P. D.		110 3-11-12	11:15	LC (3) m ka (5) 12 Ph/ 55 m/c 12							
	1 - 1 - 1 - 1	SAL	PIC+3755	1.0.2	(4 (1.5 million / 1.0))							
					Fe (5 2 me 1 ca 11.0 ) .							
					ZN(1.1ma Ka/.5)							
Ħ.	LAB	-01A0	R.Bik	CHEMTEL	5N (010mgTL/.02)2							
					50 (.0014 migic 1.01)2							
	1											
			T B. C	CHENTROM	$\sum m_{i} = 1 + 1 + 0 + 1 + 2 + 2 + 1 + 2 + 2 + 2 + 2 + 2 + 2$							
12	LAB LO	AR			135 10 mar 1 1.00 5 2							
· ·					COCCOMPTING TO DE T							
11	LAK 1		BBLKI	CHEMTERN	SN (01- maj = 1.02)2							
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LABORATORY REPORTED FIELD BLANK DATA IS COMPARED WITH THE SAMPLE DATA IN A TABULATION FORM WITH SAMPLE ANALYTICAL DATA SUMMARY.

#### COMMENTS:

(1) RESULT REPORTED BY LABORATORY AND CONFIRMED BY REVIEWER.

(2) RESULT INFERRED FROM RAW DATA

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COMPLETENES	S CONC./ MATRIX	4/H	L/A	LIA	UA.	1/1-	11/2	LA	1/A	1_1	1/5	ĹΑ	4A	14	 
	TRAFFIC	7727	1.17	3752	3753	3754	7.765	27:6	2013	3720	277	33/10	37:24	2775	
	LAB I.D. #62-122	20	21	22	23	2:4	25	26	27	13	2.7	3.)	37	28	07
FIELD QC	BLANK	√ _{τ.α}				$\checkmark$	$\checkmark$								
	DUPLICATE	4					-*								
	SPIKE				1							_			
TASKI: ICAP OR AA: METALS	RAW DATA	1/-													
	TAB. RESULTS	1.													
	TAB. D.L.'s	./-			[										
	QA FORM	./-													
	ICAP INTER. QC	/ -													
	INSTR. SENS.	w.s.													
TASK II : FURNACE AA: METALS	RAW DATA	<i>J</i> -													
	TAB. RESULTS	./-													
	TAB. D.L.'s	<i>J</i> -													·
	QA FORM	/ -				<u></u>									
	INSTR. SENS.	MS-		· · · · · · · · · · · · · · · · · · ·										ļ	
TASK II: COLD VAPOR AA: MERCURY	RAW DATA	./-			<u> </u>										
	TAB. RESULTS					<u> </u>					<u></u>				
	TAB. D.L.'s		<u> </u>	<u> </u>	<u> </u>						<u> </u>			<u></u>	
	QA FORM	/-				<u> </u>			<u> </u>		<u> </u>	<u> </u>		 	
	INSTR. SENS.	19.5.				• 									
TASK III: CYANIDE	RAW DATA	./-	<u> </u>	<u> </u>	<u> </u>								<u></u>		
	TAB. RESULTS	<u>/-</u>			<u> </u>	<u> </u>			<u> </u>		<u> </u>	<u> </u>		<u> </u>	
	TAB.D.L.'s	./-	<u> </u>		<u> </u>	<u> </u>							<u> </u>		
	QA FORM.	<u>/-</u>	<u> </u>						<u> </u>	<u> </u>	<u> </u>	<u> </u>		+	<u> </u>
	INSTR. SENS.	M5-				<u> </u>	<u> </u>				<u> </u>				
OTHER (SPECIFY):	RAW DATA		ļ	<u> </u>		<u> </u>	ļ		ļ	ļ	<u> </u>	<b> </b>	ļ	<u> </u>	ļ
	TAB. RESULTS	ļ	<u> </u>	<b> </b>	<b></b>	ļ	<u> </u>		ļ	ļ	ļ	<b>_</b>		<u> </u>	
	TAB. D.L. s	<b> </b>	<u> </u>	<u> </u>	<u> </u>	<b> </b>		<u> </u>	<u> </u>	<u> </u>	<u> </u>		<b>_</b>	+	<b> </b>
	WA FORM	<b> </b>	<u> </u>				<u> </u>							╂	<b></b>
	INSTR. SENS.	<b> </b>		<b> </b>					<u> </u>	<u> </u>		<u> </u>	<u> </u>	+	<b></b>
OTHER (SPECIFY);	TAB DUCULTO						<del> </del>				<u> </u>			+	<del> </del>
	TAB. RUSULTS		<u> </u>			<u> </u>								<u> </u>	+
	148. U.L. S	<b> </b>			+	<u> </u>			┼						╄━━━
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	1131 R. SENS.	<u> </u>	L	1				<u> </u>	1	1	1		1		

COMMENTS:

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COMPLETENESS TASK I: ICAP OR AA: METALS TASK II: FURNACE AA: METALS TASK II: FURNACE AA: TASK II: FURNACE AA: TASK II: FURNACE AA: TASK II: TASK II: FURNACE AA: TASK II: TASK II: TASK II: FURNACE AA: TASK II: TASK II: FURNACE	CONC./	14				_		the second se						•	1
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TASK I: ICAP OR AA: METALS T/ Q/ IC IC IN TASK II: FURNACE AA: METALS T/ Q/ IN	UPLICATE				10N										
TASK I: ICAP OR AA: METALS T/ Q. IC IN TASK II: FURNACE AA: METALS T/ Q/ IN	SPIKE				VCN.	$\checkmark$						_			
METALS T/ METALS T/ G. IC IN TASK II: FURNACE AA: METALS T/ G/	RAW DATA	V-													
TASK II: FURNACE AA: METALS TA GJ	TAB. RESULTS	1-													
G. IC IN TASK II: FURNACE AA: METALS TZ GJ	TAB. D.L.'s	<i>.</i> -													
TASK II: FURNACE AA: METALS TA QJ		./-													
IN TASK II: RA FURNACE AA: TA METALS TA QA	CAP INTER. QC	J _													
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#### DATA EVALUATION SCORE CATEGORIES

<u>ACCEPTABLE</u>: Data is within established control limits, or the data which is outside established control limits does not affect the validity of the analytical results.

<u>ACCEPTABLE WITH EXCEPTION(S)</u>: Data is not completely within established control limits. The deficiences are identified and specific data is still valid, given certain qualifications which are listed below.

<u>QUESTIONABLE</u>: Data is not within established control limits. The deficiences bring the validity of the entire data set into question. However, the data validity is neither proved nor disproved by the available information.

<u>UNACCEPTABLE</u>: Data is not within established control limits. The deficiences imply the results are not meaningful.

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