41.0814



# ecology and environment, inc.

CLOVERLEAF BUILDING 3, 6405 METCALF, OVERLAND PARK, KANSAS 66202, TEL. 913/432-9961

International Specialists in the Environment

### **MEMORANDUM**

SUPERFUND RECORDS

TO:

Paul Doherty, EPA/DPO

FROM:

Andrea Finger, E & E/TATM

THRU:

Joe Chandler, E & E/TATL

DATE:

October 28, 1992

SUBJECT:

Trip Report: South Mound Pesticides, South Mound, Kansas

TDD#: T07-9210-054 PAN#: EKS0361SBA EPA/OSC: Carl Bailey

#### INTRODUCTION

The Ecology & Environment, Inc., Technical Assistance Team (E & E/TAT) was tasked by the U.S. Environmental Protection Agency (EPA) Emergency Planning and Response (EP&R) Branch under Technical Direction Document (TDD) T07-9210-054 to conduct a removal assessment at the South Mound Pesticides site, South Mound, Kansas. TAT's responsibilities included performing an inventory, collecting samples from containerized products, and providing photo documentation of on-site activities. TAT members Buck Brooks and Andrea Finger were tasked to assist EPA On-Scene Coordinator (OSC) Carl Bailey.

## **BACKGROUND**

The site is located in South Mound, Kansas, which is an unincorporated town in the southeastern part of the state. South Mound is located in the southeastern comer of Neosho County, Township 30 south. Range 20 east and section 16 (Figure 1). South Mound is a sparsely populated rural area and the land surrounding the site is used primarily for agriculture. The building housing the products that were inventoried consisted of five open-ended stalls, with the products located in the center stall (Figure 2).

Ownership of the site is unclear at this time. The property that the building is on was condemned in the 1800's by the Kansas, Texas, and Missouri Railroad, which was later bought out by Missouri Pacific, part of the Union Pacific Railroad. In June 1992, Union Pacific relinquished all rights to the land and released it for county ownership. The building was owned by Jay McMillan, who also owned Strauss Grain Company, Inc. In 1984, the building ownership was transferred by a corporate deed for joint tenancy with Strauss Elevator, Inc. In 1987, Strauss Elevator, Inc. ceased operations and was sold to Beachner Grain, St. Paul, Kansas, who is currently paying the taxes.

AF/LD

EKS0361SBA/9210054/F

The Kansas Department of Health and Environment (KDHE) assessed the site and determined that the chemicals that remained represented a potential threat to human health and the environment. KDHE requested that EPA conduct a removal assessment of the site to determine the feasibility of a removal under Superfund. A site visit was made by Carl Bailey and Bill Towery, KDHE, on August 20-21, 1992. Bailey and Towery interviewed McMillan and also conducted a site reconnaissance. McMillan told Bailey and Towery that the products in the building belonged to him.

### SITE ACTIVITIES

TATMs Brooks and Finger arrived at the site with OSC Bailey on September 2, 1992, at 0820 hours. TAT conducted an inventory of the products located in the building and nine 55-gallon drums located near a smaller, old shed (Figure 2). Ninety-two products were inventoried in the building, including five that TAT was unable to identify because of missing or unreadable labels (Attachment 3: Inventory Sheets). For each item, the container type, condition, size, content amount, material state, chemical name and manufacturer were recorded. TAT marked the nine drums near the shed with identifying numbers (#1 thru #9). For each drum, its size, type, label information, and any other pertinent comments were recorded (Attachment 4: Drum Inventory Sheets). Two of the drums were found to be empty (#3 and #6). TAT's inventory was submitted to the Kansas State Board of Agriculture for determination of those chemicals which would be listed as materials banned for use by the State of Kansas. No samples were submitted from the products found in the building.

Six samples were collected from drums #1-9, near the old shed, by the sampling team (Table 1). Container headspaces were screened with a Foxboro Model 128 Organic Vapor Analyzer (OVA) prior to sample collection. Sample collection was achieved by using thieving rods to transfer samples of the drum contents into 16-ounce glass jars. Thieving rods were dedicated to each drum and outer gloves were replaced prior to the collection of each sample to reduce the possibility of cross contamination.

TABLE 1
SIX SAMPLES COLLECTED FROM CONTAINERIZED PRODUCTS
AT THE SOUTH MOUND PESTICIDES SITE

SAMPLE #	DRUM #	PRODUCT NAME	ANALYSES	CHARACTERISTICS/DESCRIPTION
NBX14001	1	2,4-D	Herbicides	dark brown liquid OVA = 545 ppm
NBX14002	2	Unknown	Flashpoint	Oily liquid with clear phase OVA = 195 ppm
NBX14003	4	Unknown	Flashpoint	Amber colored paraffin-like material
NBX14004	5	Unknown	Flashpoint Volatile Organics	Cream colored liquid OVA = 1,000 ppm
NBX14005	7	Unknown	Plashpoint Perticides	Top phase - watery amber liquid Bottom phase - solid OVA = 500 ppm
NBX14006	8,9	Unknown	Volatile Organics Flashpoint	Cream colored liquid OVA = 1,000 ppm

Sampling activities were completed by 1420 hours on September 2, 1992. TAT delivered the samples to the Region VII EPA Laboratory for selected pesticide, herbicide, volatile organics, and flashpoint analyses on September 3, 1992, under activity number NBX14 (Table 1). Data results were received by OSC Bailey and will be evaluated by EPA.

### **SUMMARY**

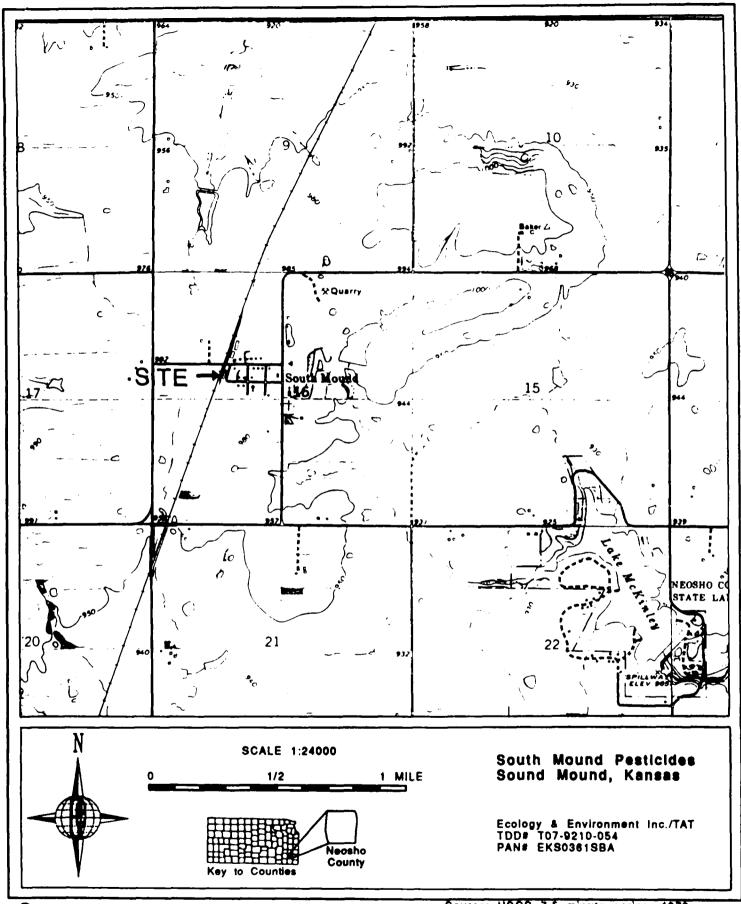
TAT was tasked to conduct a removal assessment at the South Mound Pesticide site, South Mound, Kansas. TAT inventoried, sampled, and documented site conditions. Six samples were collected for submittal to Region VII EPA laboratory for selected pesticide, herbicide, volatile organic, and flashpoint analyses. OSC Bailey received the data transmittal on October 7, 1992. Following evaluation of the analytical results by EPA, a determination concerning potential removal activities will be made. TAT will remain available for assistance pending the initiation of any removal activities.

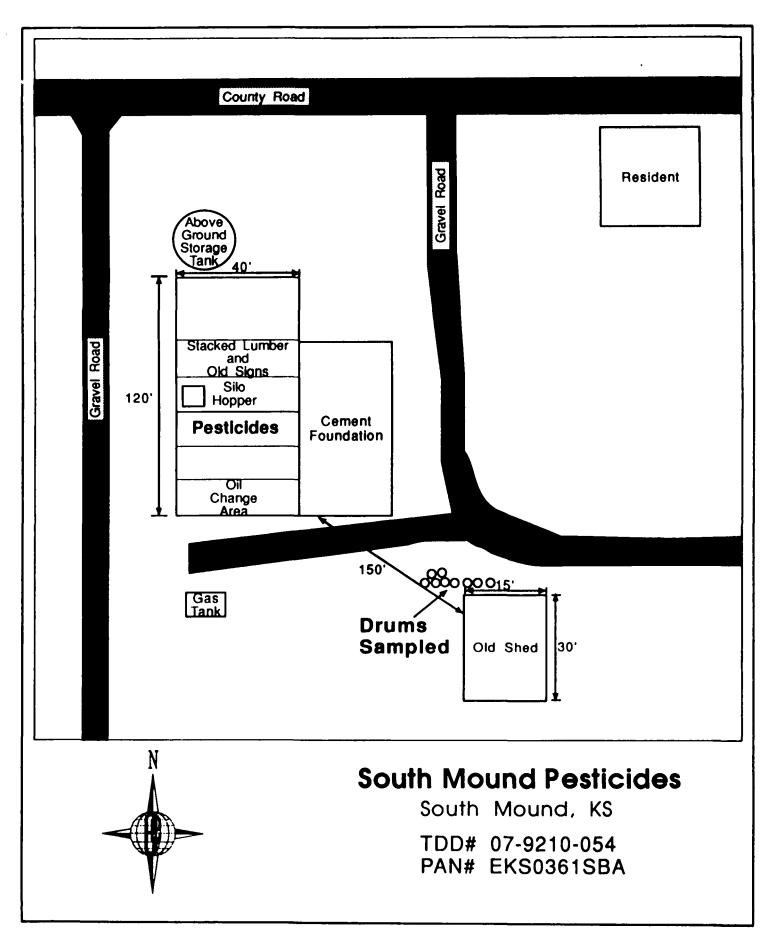
### **ATTACHMENTS**

Figure 1: Site Location Map Figure 2: Site Sketch Map

Attachment 3: Pesticide Inventory Sheets
Attachment 4: Drum Inventory Sheets

Photographic Record





## SOUTH MOUND PESTICIDES INVENTORY

MOCAP MOBIL CHEMICAL	700 LBS	MILOGARD 80W CIBA-GEIGY	60 LBS
WEED BEADS DOW CHEMICAL	60 LBS	TETRAKOTE DOUGLAS CHEMICAL	2 GAL
MODOWN MOBIL CHEMICAL	10 LBS, 2.5 GAL	BALAN HERBICIDE ELANCO	5 GAL
BHC 12-W STAUPFER CHEMICAL	36 LBS	SORBA-SPRAY ZNP LEFFINGWELL CHEMICA	
ORTHENE 755 CHEVRON CHEMICAL ORTHO DIVISION	10 LBS	DISINTEGRATING SULF YELLOWSTONE SULPHUR MONTANA SULPHUR & C	
ORTHENE INSECTICIE CHEVRON CHEMICAL ORTHO DIVISION	DE 10 LBS	ATRAZINE 4L HEBICION SHELL CHEMICAL CO	DE 67.5 GAL
KARMEX DUPONT	4 LBS	WEED RHAP HEBICIDE HERCULES	100 LBS
PARAQUAT CL CHEVRON CHEMICAL ORTHO DIVISION		AMIBEN PREEMERGENCE AMCHEM PRODUCTS, IN	
BELT 33.3 G VELSICOL CHEMICAL		FURADAN MOBAY CHEMICAL CORE	
SPENCER CLOBBER GULF OIL CORP	30 GAL	ALDRIN 4 LFE SHELL CHEMICAL CO	10 GAL
FARM BIN SPRAY THOMPSON HAYWARD C	12 GAL CHEMICAL CO	SEMIMOL 4 CARBARYL UNION CARBIDE CORP	INSECTICIDE 5 GAL
TENORAN 50 WP HEBI CIBA AGROCHEMICAL		FLAT GARD PUNCTURE	COMPOUND 5 GAL
LOROX LINURON WEED EI DUPONT DEMOURS	KILLER 144 LBS & CO INC	DYBAR FENURON WEED/ DUPONT	BRUSH KILLER 14 LBS
MO BAIT LOVELAND INDUSTRIE		DORMANT SPRAY CHEVRON CHEMICAL ORTHO DIVISION	1 GAL
PYDRIN INSECTICIDE SHELL CHEMICAL CO	1 GAL	SK SUREKILL BRAND HIGHLAND PRODUCTS I	
LOROX L WEED KILLE BI DUPONT DEMOURS		BLITZ CONCRETE REMO	VER 1 GAL

DITHANE M-45 24 LBS	WOUND HEALER 5 OZ
ROHM & HAAS	ANCHOR LAB INC
COOPER-TOX EXTRA 3 QTS COOPER	TREAT-N-MARK 28 0Z ANCHOR LAB INC
P-2 AG DYE MARKER 2 QTS	FOOT ROT REMEDY 70 OZ
AGMARK, LAN PRODUCTS INC	ANCHOR LAB INC
GRUB KILLER 1 QT	BLUE WOUND DRESSING 35 OZ
COOPER & NEPHEWS INC	EAGLES BACON PRODUCTS CO INC
PEST-B-GONE WETTABLE 1 LB CALIFORNIA SPRAY-CHEM CORP	ORTHOTROL 4 QTS CHEVRON CHEMICAL ORTHO DIVISION
GOLDEN MALRIN FLY BAIT 4 LB	HONEY-PAC 240 OZ
STARBAR	MUNICHEM CORP
GOLDEN MALRIN SUGAR BAIT 10 LB STARBAR	3% CLODRIN INSECTICIDE 1 LB SHELL CHEMICAL CO
SCREW WORM & EAR TICK KILLER 40 OZ COOPER USA INC	HOME ORCHARD SPRAY 1 LB CHEVRON CHEMICAL ORTHO DIVISION
CATTLE PURGE 42 OZ	DED-WEED 1.25 GAL
ANCHOR LAB INC	THOMPSON HAYWARD CHEMICAL CO
SUTAN 5 GAL	SORBA-SPRAY MIP 1 GAL
STAUFFER CHEMICALS	LEFFINGWELL CHEMICAL CO
SUPRACIDE 2E 5 GAL	RAPID-KILL WEED KILLER 1 GAL
CIBA-GIEGY CORP	DEL CHEMICAL CORP
NUDRIN 1.8 5 GAL SHELL CHEMICAL	PANOGEN 15 LIQUID SEED DISINFECTANT PANOGEN INC 2 QTS
KLEAN KROP 5 GAL THOMPSON HAYWARD CHEM CO	SLICK SPREADER STICK WETTING AGENT STARBAR 152 OZ
MOCAP EC 5 GAL MOBIL CO	FLIPO MANGE TREATHENT 64 OZ BACON PRODUCTS CO INC
ERIK 80W 96 LBS GEIGY	LIVESTOCK SPRAY 12 OZ PFIZER, AGRICULTURAL DIVISION
AGROX 3-WAY 180 OZ	KIL-ZAL ROACH GUARD 1 PT
ICI AMERICA INC	NATIONAL LABORATORIES
ISOTOX 25 SEED TREATER 9 OZ	KILL-KO ROACH POWDER 48 OZ
CALIFORNIZ SPRAY-CHEMICAL CO	RIGO CHEMICAL CO

BASAGRAN 1 GAL BASF WYANDOTTE CORP	REAL KILL BUG KILLER 1 PT COOK CHEMICAL CO REAL KILL PRODUCTS DIVISION
GOLDEN MALDRIN LIQUID 3 GAL STARBAR	RAVAP 4 QTS SHELL AG DIVISION
ATGARD SWINE WORMER 1632 GR SHELL CHEMICAL CO	KILL-KO 144 OZ RIGO CO
SUPERSWEET MANGE & LICE CONTROL INTERNATIONAL MULTIFOODS CORP 80 OZ	KILL-KO CYGON 2-E 9 PT RIGO CO
AGRA LABS TECH II 1 GAL AGRA LABS INC	ROACH & ANT KILLER 360 OZ CHEMICAL INDUSTRIES INC
AGRA LABS TECH I 12 QTS AGRA LABS INC	PATTERSONS BHC EMULSION CONCENTRATEFERGUSON CHEMICAL CO 2 QTS
CYGON 267 1 GAL AMERICAN CYANAINID CORP	BASF REBEL 1 GAL BASF WYANDOTTE CORP
DE-FEND E-267 5 GAL THOMPSON HAYWARD CHEMICAL CO	BEXTON 4L 5 GAL DOW CHEMICAL CO
THIS 10 GAL STOLLER CHEMICAL COMPANY INC	LIQUID ATRAZINE 5 GAL TECHNE CORP
ALANAP-L 50 GAL UNIROYAL CHEMICAL CO	TOXAPHENE 6 EC 40 GAL USS AGRICHEMICALS
PREFOX 60 GAL GULF OIL CHEMICALS CO	MALATHION GRAIN PROTECTOR 375 LBS LOVELAND INDUSTRIES INC
TREFLAN HERBICIDE 1 QT ELANCO PRODUCTS CO	FORAGE PRESERVATIVE 200 LBS TRIPLE F FEEDS

TEN 1-QT PLASTIC CONTAINERS WITH NO MARKINGS WERE FOUND IN A BOX THAT WAS LABELED WITH THE FOLLOWING INFORMATION: FMC CORPORATION; ACTIVE INGREDIENTS: 2,3-DIHYDRO-2,2-DIMETHYL-7-BENZOFURARYL METHYLCARBAMATE, CARBOFURAN. ALL TEN OF THE CONTAINERS WERE FULL OF A LIQUID SUBSTANCE.

ON THE FOLLOWING ONE POUND PLASTIC CONTAINER, THE NAME HAD FADED BUT THE ACTIVE INGREDIENTS AND MANUFACTURER WERE LEGIBLE. THE MANUFACTURER WAS MOBAY CHEMICAL COMPANY AND THE ACTIVE INGREDIENTS WERE: 4-AMINO-6-(1,1-DIMETYLETHYL)-3-(METHYLTHIO)-1,2,4, TRIAZIN-5(HH)-ONE. THE MATERIAL IN THE CONTAINER WAS SOLID.

South	y Mound p	RCOLOGY & ENVI	IELD SCREENING	SHEET	
Site Name: ETTRUS	s leshines	site IDE:	Inv	entoried by: <u>F</u>	Brooks Final
city: Strong So.	46 Mouna	State: KANSAS	Date	• Inventoried:	7/2/92
Sample 4:		TDD0: T07-92-08-	<u>∆17</u> 71•	ld Screening R	equired YES or NO
Drum ID6:		PANE: <u>EKS @ 3625A</u>	A rie	ld Screening C	ompleted:
			R⊕∨	iewed by:	<del></del>
PLACED IN STORAGE A	REA:	<del></del>	Dat	a Entry by:	
			Tim	• Sample Colle	cted:
CONTAINER SIZE 85 qal	CONTAINER TYPE	CONTAINER OPENING Unknown	CONTAINER Unknown	COMDITION	CONTENT AMOUNT Pull
55 gal X	riter	Ring top	Good		3/4 full
30 gai	Glass	Closed top	Pair		1/2 full
5 gal	Pressure	Screw top	Poor		1/4 full
Other: Specify	Cylinder	Open topStopper	Deax Ing	<del></del>	Other:Specify
	Aerosol Tin	Other: Specify			£ 74
	Other:Sperify	_ sung			
CHERICAL NAME AND/	OR TRADERAGE:	COLOR		MATERIAL COLOR	Material State
2,4,0			prim sec	prim	50c
		clear		clear	solid
		CTORM		CTORM	liquid
HANTUPACTURE/CONNENT	rs :	black	<del>_</del>	black	- sludge
		white red	<del></del>	vhite	ges
		green		green	trash
		blue		blue	5011
		blue/grn		blue/grn	
		brown		brown	<del></del>
		amber		amber	
		pink		pink	
OVA READING: 54	15	orange yellow		yellow	
HNU READING:		gray	<del></del>	gray	
RADIOACTIVE: NO	ES PEADING:	purple		purple	<del></del>
				moskly	water
		FIELD SCREENING			
	PERFORMED	BY:	DATE:	:	
SAMPLE DESCRIPTION	:				
	YES NO	TEST DESCRIPTION			COMMENTS:
Corrosive		pH<2 or pH >12; actual	1 pH		
Flammable		Liquid burns after ma			
Oxidizer		SETA Flash (140F			
Air Reactive		Starch lodide paper to No HasCat definition	urned dark		
Water Soluble		Dissolves in water			
_	<del>-</del> -	Float/Sink: comment	:		
Water Reactive		Changes volume or become	omes hot in wat	ter	
Halide		Green flame with coppe	OF V1F0		
Sulfide		Lead acetate paper tu	rns dark		
Cyanide Other tests		Cyanide test turns de	ep Prussian bli	u •	
performed		List/describe them:			

رايد.	Maradi	ECOLOGY Date: 7 Date: Invi	T & ENVIRONME ENTORY/PIELD	EWT, INC. SCREENIES	SREET	0	16
South	e forchises	resticial	S	Inv	ventoried by:	Knok	slinger
city: Strang Sc	outh Moune	detate: KANS	SAS	Dat	te Inventorie	1: 7/3	2,92
			6	'A	eld Screening		YES OF NO
Sample 4: 2 Drum ID8: 2		PANO: EKS &			eld Screening	•	
	<del></del>	PART. EKSO	79627A				
					viewed by:		
PLACED IN STORAGE A	REA:		_	Da	ta Entry by:_		
				Ti	me Sample Col	lected:	<del></del>
CONTAINER SIZE  85 gal  55 gal  30 gal  1 gal  Other:Specify	COMPANIES TYPE Meta	CONTAINER Unknown Ring top Closed top Screw top Open top Stopper Other:Spec	ity	CONTAINE Unknown Good Pair Poor Leaking	<b>X</b>	CONTENT Full 3/4 full 1/2 full 1/4 full Empty Other:Sp	<b>X</b>
CHERICAL NAME AND/O	R THADERNE:		ONTAINER DLOR		HATERIAL COLOR		MATERIAL STATE
Primose  Poudas, To  ova reading: 19  HNU READING: NO 18	oil comp (	cc bi	primes pr		clear cream black white red green blue blue/grn brown amber pink orange yellow gray purple  Wattury	<u> </u>	solid liquid sludge gas gel trash soil
	PERFORMED	BY:		DATE	::		
SAMPLE DESCRIPTION:	•						
	725 90	TEST DESC	RIPTION				COMMENTS:
Corrosive Flammable		pH<2 or pH >12 Liquid burns a					
		SETA Flash (1	140F Temp:	:	•		
Oxidizer Air Reactive		Starch iodide No HasCat defi	• •	d dark			
Water Soluble	= =	Dissolves in v	Tetev				
Water Reactive	_	Float/Sink; Changes volume		hot in wa	it or		
Halide		Green flame wi	ith copper w	i r •	-		
Sulfide Cyanide	= =	Lead acetate p Cyanide test t	•				
Other tests	<del></del>	-	·	. gogian Di			
performed		List/describe	them:				

ECOLOGY & ENVIRONMENT, INC.

Site Hemor SFFAUS	n Mound f	Esticious site ide:	INCLUSION IN	ventoried by:_	Brooks/Finger
		State: KANSAS			: 7/2/92
Sample 4:		TDD0: T07-9208-	19 PI	eld Screening	Required YES or NO
Drum IDE: 3		PANO: EKS 03625A		eld Screening	Completed:
<del></del>					
211572 IN 6702157					
PLACED IN STORAGE A					ected:
			Ti	me Sample Coll	•ct•a:
CONTAINER SIZE	CONTRACTORS STEE	CONTAINER OPENIES		R COMDITION	CONTENT AMOUNT
85 gal	Hota - Z	Unknown	Unknown_	<del>_</del>	Full_
55 gal	Fiber	Ring top	Good		3/4 full
30 gal	31027	Closed top	Pair 3	<u> </u>	1/2 full
5 gal	Plastic	Screw top	POOT		1/4 full
1 gal	Pressure	Open top	Leaking_		Empty
Other:Specify	Cyl:.nder	Stopper			Other:Specify
	Aerswol tin	Other:Specify			
	Other:Specify	bung			
		$\overline{}$			<del> </del>
CHEMICAL RANG AND/O	OR TEADERNIE:	CONTAINER		MATERIAL	MATERIAL
		COLOR		COLOR	STATE
			prim sec	pris	
		clear		clear	solid
		cream		CIOAM	liquid
HANDPACTURE/CONNEN	rs:	black		black	sludge
		white		white	gas
		red.		red	gel
		green		red green	trash
		blue	·文 —	blue	soil
		blue/grn	<b>—</b>	blue/grn	
		brown		brown	<del></del>
		amber		amber	
		pink	<del></del>	pink	· <del></del>
		orange		• —	· —
OVA READING:		yellow		·	· <del></del>
HNU READING:	<del></del>		<del></del>	· —	· <del></del>
RADIOACTIVE: NO	VES PEADING:	purple	= =	gray purple	<del></del>
10.0107611121 110					· <del></del>
		FIELD SCREENIN	M/THATCATT DAS	74	
			·	••	
	PERFORMED	BY:	DATE	Z:	
SAMPLE DESCRIPTION	•				
	YES NO	TEST DESCRIPTION			COMMENTS:
Corrosive		pH<2 or pH >12; actua	· · ———		
Flammable		Liquid burns after ma		d	
			Temp:		
Oxidizer		Starch iodide paper t	urned dark		
Air Reactive		No HasCat definition			
Water Soluble		Dissolves in water			
		Float/Sink: comment			
Water Reactive	<del></del>	Changes volume or bed		eter	
Halide		Green flame with copp			
Sulfide		Lead scetate paper tu			
Cyanide		Cyanide test turns de		lue	
Other tests					
performed		List/describe them:			

South Mound par 7 prop INVENTORY PIELD SCREENING SHEET site Name: Strause Posticités site 100: Inventoried by: Brooky Finger CLEY: Straum South Moundates: KANSAS Date Inventoried: TDD0: T07-9208-017 Field Screening Required YES or NO PANO: EKS 036 LSAA Drum ID#: Field Screening Completed: Reviewed by: PLACED IN STORAGE AREA: Data Entry by: Time Sample Collected: COMPANIES TYPE CONTENT AMOUNT CONTAINER SIZE CONTAINER COMDITION CONTAINER OPENIES Full 3/4 full 85 gal Meta\_ Unknown Unknown 55 gal fiter Ring top Good Closed top\_\_ Pair\_\_\_ 1/2 full 30 gal 51494 1/4 full 5 gal Flestic Screw top\_ Poor Empty Other:Specify Open top\_ 1 gal Freemute Leaking Cylinder Aersmol 715 Other: Specify Stopper Other: Specify other:Specify CREMICAL NAME AND/OR TRADESAME: MATERIAL MATERIAL CONTAINED COLOR COLOR STATE prim prim solid clear Clear liquid ) CTORM Cream MANUFACTURE/COMMENTS: black black eludge white white 985 per ted gel green green trash soil blue blue blue/grn blue/grn brown brown amber amber pink pink orange orange OVA READING: yellow yellow HNU READING: woloned textrapin type material gray gray RADIOACTIVE: NO YES PEADING: purple purple amper FIELD SCREWING/"RAICAT" DATA PERFORMED BY: DATE:\_\_ SAMPLE DESCRIPTION: 725 COMMENTS: .10 TEST DESCRIPTION Corrosive pH<2 or pH >12; actual pH 7lammable Liquid burns after match is removed SETA Flash (140P Temp: Oxidizer Starch iodide paper turned dark Air Reactive No HasCat definition Water Soluble Dissolves in water Float/Sink; comment: Water Reactive Changes volume or becomes hot in water Halide Green flame with copper wire Sulfide Lead acetate paper turns dark Cyanide Cyanide test turns deep Prussian blue Other tests

\_\_\_ List/describe them:

SCOLOGY & SWVIROMORNY, INC.

performed

ECOLOGY & ENVIRONMENT, INC.

South	moundpes	TAT   DRUM INVENTORI/Y:	IRTO SCHEENING RHEEL		~. /
Site Name Straus	s festives	Site IDE:	Inventor	ied by: Brooks	Finger
	win mound	State: KANSAS	Date Inve	entoried: 7	
Sample 4: 5		TDD: T67-92-68-	Ala Field Sci	reening Required	YES or NO
Drum IDE:5	)	PANE: EKS 03675A	A Pield Sc	reening Complete	1:
			Reviewed	by:	
PLACED IN STORAGE A	REA:	<del></del>	Data Ent	ry by:	<del></del>
			Time Sam	ple Collected:	<del></del>
CONTAINER SIZE	CONTRACTORS TYPE	CONTAINER OPENIES	CONTAINER COND		
85 gal	Hota- X	Unknown	Unknown	Full	
55 gal	Fiber 71est	Ring top	Good		<del></del>
5 gal	Plastic	Screw top	Poor		<u></u>
l gal	Preseure	Open top	Leeking	Empty	
Other: Specify	Cyl:.nder	Stopper	Eduking	Other:3	
	Aerasol 113	Other:Specify		001141.3	pecity
	Other:Specify	Val h &			<del></del>
		bung			<del></del>
		<del></del>			
C					
CEERICAL NAME AND/	AK I EMMARANE:	CONTAINER	COLOR		MATERIAL STATE
			prim sec	prim sec	
		clear	clear		solid
		CTOAR	cream		liquid x
HANTUPACTURE/CONNEN	rs:	black	black		sludge
		white	white		988
		red	red		<b>qe1</b>
		green	green		trash
		blue	blue		***************************************
		blue/grn	blue/		
		brown	brown		,
		pink	pink		somers H
_	100()	orange	orang		upper.
OVA READING: >	1000	yellow	yello	<u> </u>	he south
HNU READING:	<del></del>	grey	gray	· — —	be paint
RADIOACTIVE: NO	ES PEADING:	purple	purpl		•
Mashpoint	-		residu	e in botto	
		FIELD SCREENING	/"RAICAT" DATA		
	PERFORMED I	9Y:	DATE:		
SAMPLE DESCRIPTION					
	YES NO	TEST DESCRIPTION			COMMENTS:
Corrosive		pH<2 or pH >12; actual	. pH		
Flammable		Liquid burns after mat	ch is removed		
			emp:		
Oxidizer		Starch iodide paper tu	rned dark		
Air Reactive		No HasCat definition			
Water Soluble		Dissolves in water			
		Float/Sink: comment:			
Water Reactive		Changes volume or beco	mes hot in water		
Helide		Green flame with coppe	r wire		
Sulfide		Lead acetate paper tur	ns dark		
Cyanide		Cyanide test turns dee	p Prussian blue		
Other tests					
performed		List/describe them:			

ECOLOGY & ENVIRONMENT, INC.

South	n Mound A	S TO A SOLUTION OF THE			0
Site Name: Straus	4 Pesticitis	site 100:	Inv	ventoried by:	Brooks/Finger
City: Strains St	ruth Mound	State: KANSAS	Dat	te Inventoried	9,2,92
Sample 4:		TDD0: T07-9208-	all ric	eld Screening	Required YES or NO
Drum ID8:		PANO: EKS 03615A	A rie	eld Screening	Completed:
		·	Ro	viewed by:	
DIACED IN STORAGE I	\B#1 ·				
PLACED IN STORAGE	CKEA:				
			Ti	me Sample Coll	ected:
CONTAINER SIZE	CONTRACTOR STAR	CONTAINER OPENING		R COMDITION	CONTENT AMOUNT
85 gal 55 gal <del>X</del>	Heta	Unknown	Unknown_ Good	<del></del>	full 3/4 full
30 gel	Glass	Ring top	Pair V.		1/2 full
5 qal	Plestic	Screw top	Poor		1/4 full
1 901	Preseure	Open top	Leaking		Empty V
Other:Specify	Cyl:.nder	Stopper			Other:Specify
	Aerasol Tin	Other; Specify			
	Other:Specify	www			
<del></del>		<del></del>			
CHEMICAL NAME AND/	OR TRADEENE:	CONTAINER		MATERIAL	MATERIAL
multi-grad	h day luk	coton		COLOR	STATE
Much - dran	u 9904 (w)				
J	·		prim sec	prim	
		clear		clear	solid
		crean	<del></del>	Cream	liquid
HANDPACTURE/CONSIGN	13:	black	$\overline{\mathbf{x}} =$	black	sludge
		white		white	988
		red	<del></del>	red	9•1
		green		green	trash
		blue		blu•	soil
		blue/grn		blue/grn	
		brown	<del></del>	brown	
		amber		pink	
		pink		· —	
OVA READING:		orange	<del></del>	orange	
HNU READING:		_ yellow		yellow	
RADIOACTIVE: NO	VES PEADING:	_ gray purple		gray	
RADIOACTIVE. NO		putpre		purple	
		FIELD SCREENING	G/"RAICAT" DAT	ra	
	PERFORMED B	Y:	DATE	::	
SAMPLE DESCRIPTION					
	725 10	TEST DESCRIPTION			COMMENTS:
Corrosive		pH<2 or pH >12; actua			
Flammable		Liquid burns after ma		1	
		SETA Plash (140P			
Oxidizer		Starch iodide paper t	urned dark		
Air Reactive		No HazCat definition			
Water Soluble		Dissolves in water			
	_	Float/Sink; comment			
Water Reactive		Changes volume or bec	omes hot in we	ter	
Halide		Green flame with copp-			
Sulfide		Lead acetate paper tu			
Cyanide		Cyanide test turns de	ep Prussian bl	lu•	
Other tests					
performed		List/describe them:			

South Mound (CST) CIDES

Site Name: CST CIDES

Site IDS:

Inventoria ECOLOGY & ENVIRONMENT, INC. Inventoried by: CIEY: Strame South Moundsence: KANSAS Date Inventoried: Sample : TDD8: T07-9208-019 Field Screening Required YES or NO PANO: EKS \$3625AA Field Screening Completed: Drum ID#: Reviewed by: PLACED IN STORAGE AREA: Data Entry by:\_\_\_\_ Time Sample Collected: CONTAINER SIZE CONTAINER CONDITION CONTENT AMOUNT CONTRACTOR TIPE CONTAINER OPENING 85 gal Meta\_ Unknown Unknown Full 3/4 full X 55 gal Fiter Ring top Good Closed top\_ 30 gal\_ 1/2 full Slaus Screw top\_\_ Plas-1c 5 gal 1/4 full Poor Open top\_ 1 qal Preseure Empty cylinder Other: Specify Stopper Other: Specify Assessol Tim Other:Specify other:Specify bung CHEMICAL NAME AND/OR TRADERAGE: COSTAINER MATERIAL MATERIAL COLOR STATE COLOR prim solid X clear clear CTORM CIMAR MARUYACTURE/COMMENTS: black black sludge white white 988 red red gel green green trach blue blue soil blue/grn blue/grn brown brown amber amber pink pink orange orange OVA READING: yellow vellow HNU READING: RADIOACTIVE: NO YES PEADING: gray gray purple purple liquid was all that was collected Clera unhar Mushpoint PIELD SCREENING/"RAICAT" DATA PERPOPHED BY: DATE: SAMPLE DESCRIPTION: 7 E S .10 TEST DESCRIPTION COMMENTS: Corrosive pH<2 or pH >12; actual pH Plammable Liquid burns after match is removed SETA Flash (140P Temp: Oxidizer Starch iodide paper turned dark Air Reactive No HazCat definition Water Soluble Dissolves in water Float/Sink: comment: Water Reactive Changes volume or becomes hot in water Halide Green flame with copper wire Sulfide Lead acetate paper turns dark

Cyanide test turns deep Prussian blue

List/describe them:

Cyanide

Other tests performed

ECOLOGY & ENVIRONMENT, INC. South Mound Post and S

site Name: Straws (2.1/11/16)

Site 100:

Inventorie Inventoried by: Braks/Fingly CLEY: Strang South Maynderso: KANSAS Date Inventoried: 9/ Sample 0: TDD0: TO7-92-68-618 Field Screening Required YES or NO Drum ID#: PANO: EKS \$3675AA Field Screening Completed: Reviewed by:\_\_\_\_ PLACED IN STORAGE AREA: \_\_ Data Entry by:\_\_\_\_ Time Sample Collected:\_\_\_\_ CONTAINER SIZE CONTRACTOR TIPE CONTAINER OPENIES CONTAINER COMDITION CONTENT, MIDDLE 85 gal Pull Motal Unknown Unknown 55 gal 3/4 Eull Fiber Ring top Closed top\_ 30 gal Glass Pair T 1/2 full 5 gal Screw top\_ 1/4 full Plastic Poor 1 gal Open top\_ Pressure Leaking Empty Other: Specify Cylinder Stopper Other: Specify Aerosol cas Other: Specify Other Specify Vring CREMICAL NAME AND/OR TRADEMANE: CONTAINER MATERIAL HATERTAL. COLOR STATE COLOR prim clear clear 11quid Frolich CTOAM CIGAR HAMUPACTURE/COMMENTS: black black vhite. white qas gel red red green green trach blue blue/grn blue/grn brown brown amber amber pink pink orange orange OVA READING: yellow yellow HNU READING: gray gray RADIOACTIVE: NO YES REALING: purple purple water on top of a solid strundings Mashpoint FIELD SCREENING/ RAICAT DATA FERFORMED BY: DATE: dried pourd
connents:
solid layer on top
of liquid
sample collected
mostly from solid SAMPLE DESCRIPTION: YES NO TEST DESCRIPTION Corrosive pH<2 or pH >12; actual pH Flammable Liquid burns after match is removed SETA Flash (140P Temp: Oxidizer Starch iodide paper turned dark Air Reactive No HazCat definition Water Soluble Dissolves in water Float/Sink: comment: Water Reactive Changes volume or becomes hot in water Halide Green flame with copper wire Sulfide Lead acetate paper turns dark Cvanide Cyanide test turns deep Prussian blue Other tests

\_\_\_ List/describe them:

performed

ECOLOGY & ENVIRONMENT, INC. TAT 7 DRUM INVENTORING THE SCHENING SHEET

Site Name: SPRUSS TESTICIPES Site ID: Inventoria Inventoried by: Brocks/Finacr South Moundaine: KANSAS Date Inventoried: Sample 0: TDD#: ΤΦ7-92Φ8-ΔΙΫ Field Screening Required YES or NO PANO: EKS @36 ZSAA Field Screening Completed: Drum ID0: Reviewed by:\_\_\_ PLACED IN STORAGE AREA: Data Entry by: Time Sample Collected: COMMENT VINDOMA CONTAINER SIZE COSTALISER TYPE CONTAINER CONDITION CONTAINER OPENIES 85 gal Metal Unknown Unknown Full 3/4 Eull 55 gal Fiber Ring top Good 30 gal Closed top 1/2 full Glees Pair 5 gal Plastic Screw top 1/4 full Poor Open top 1 gal Pressure Leaking Empty Other: Specify Cylinder Stopper Other: Specify Aerosol can Other: Specify bung Other:Specify CHEMICAL NAME AND/OR TRADERANCE: HATERIAL MATERIAL CONTAINER COLOR STATE COLOR clear solid clear liquid X CTOOR CIOSE MARUFACTURE/CONSUNTS: sludge black black white white gae be? gel green green trash soil hlue blue blue/grn blue/grn brown brown ember amber pink pink orange orange OVA READING: > 1000 yellow yellow HNU READING: gray gray RADIOACTIVE: NO YES READING: purple purple Machpoint FIELD SCREENING/"HAZCAT" DATA SA

PER	FORMED	BY: DATE:	
YES	NO	TEST DESCRIPTION	COMMENTS
		pH(2 or pH >12; actual pH	
_		Liquid burns after match is removed	
		No HasCat definition	
=	_	Dissolves in water Float/Sink: comment:	
	_	Cyanide test turns deep Prussian blue	
		List/describe them:	
			YES NO TEST DESCRIPTION  pH<2 or pH >12: actual pH  Liquid burns after match is removed  SETA Flash<140F Temp:  Starch iodide paper turned dark  No HesCat definition  Dissolves in water  Float/Sink: comment:  Changes volume or becomes hot in water  Green flame with copper wire  Lead acetate paper turns dark  Cyanide test turns deep Prussian blue

## Ecology and Environment, Inc.

## Photographic Record

Client: EPA

Camera Make: Olympus

E & E Job No.: ZT2071

Serial No. : 1048989

SITE NAME: South Mound Pesticides SITE LOCATION: South Mound, Kansas TDD/PAN No.: T07-9210-054/EKS0361SBA

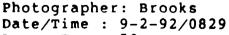
Photographer: Brooks

Date/Time: 9-2-92/1419 Lens: Type: 50 mm Serial No.: 1036045

Frame No. : 5 Direction: West

Comments : Overview of shed.





Lens: Type: 50 mm Serial No.: 1036045

Frame No. : 1 Direction: West

Comments : Containerized

products in shed.



## Ecology and Environment, Inc.

## Photographic Record

Client: EPA

Camera Make: Olympus

E & E Job No.: ZT2071

Serial No. : 1048989

SITE NAME: South Mound Pesticides SITE LOCATION: South Mound, Kansas TDD/PAN No.: T07-9210-054/EKS0361SBA

Photographer: Brooks
Date/Time: 9-2-92/1325

Lens: Type: 50 mm Serial No.: 1036045

Frame No. : 2
Direction : South

Comments : Drums sampled

near old shed.







#### SOUTH MOUND PESTICIDES INVENTORY

MOCAP 700 LBS MILOGARD 80W 60 LBS CIBA-GEIGY MOBIL CHEMICAL TETRAKOTE WEED BEADS 60 LBS 2 GAL DOUGLAS CHEMICAL DOW CHEMICAL 10 LBS, 2.5 GAL BALAN HERBICIDE 5 GAL HODOWN ELANCO MOBIL CHEMICAL BHC 12-W SORBA-SPRAY ZNP 36 LBS 5 GAL LEFFINGWELL CHEMICAL CO STAUFFER CHEMICAL ORTHENE 755 10 LBS DISINTEGRATING SULPHUR FLAKES 1050 LBS YELLOWSTONE SULPHUR BRAND CHEVRON CHEMICAL MONTANA SULPHUR & CHEMICAL CO ORTHO DIVISION ORTHENE INSECTICIDE 10 LBS ATRAZINE 4L HEBICIDE 67.5 GAL CHEVRON CHEMICAL SHELL CHEMICAL CO ORTHO DIVISION KARMEX 4 LBS WEED RHAP HEBICIDE 100 LBS **DUPONT HERCULES** PARAQUAT CL 10 GAL AMIBEN PREEMERGENCE WEED KILLER CHEVRON CHEMICAL AMCHEM PRODUCTS, INC ORTHO DIVISION BELT 33.3 G 250 LBS FURADAN 100 LBS VELSICOL CHEMICAL CORP MOBAY CHEMICAL CORP SPENCER CLOBBER 30 GAL ALDRIN 4 LFE 10 GAL GULF OIL CORP SHELL CHEMICAL CO FARM BIN SPRAY 12 GAL SEMIMOL 4 CARBARYL INSECTICIDE 5 GAL THOMPSON HAYWARD CHEMICAL CO UNION CARBIDE CORP TENORAN 50 WP HEBICIDE 30 LBS FLAT GARD PUNCTURE COMPOUND CIBA AGROCHEMICAL CO LOROX LINURON WEED KILLER 144 LBS DYBAR PENURON WEED/BRUSH KILLER 14 LBS EI DUPONT DEMOURS & CO INC DUPONT MO BAIT 16.5 GAL DORMANT SPRAY 1 GAL LOVELAND INDUSTRIES INC CHEVRON CHEMICAL ORTHO DIVISION PYDRIN INSECTICIDE 1 GAL SK SUREKILL BRAND 1 GAL SHELL CHEMICAL CO HIGHLAND PRODUCTS INC LOROX L VEED KILLER 5 GAL BLITZ CONCRETE REMOVER 1 GAL

MUNICHEM CORP

EI DUPONT DEMOURS & CO INC

DITHANE M-45 24 LBS	WOUND HEALER 5 OZ ANCHOR LAB INC
ROHM & HAAS	ANCHOR LAD INC
COOPER-TOX EXTRA 3 QTS COOPER	TREAT-N-MARK 28 OZ ANCHOR LAB INC
P-2 AG DYE MARKER 2 QTS AGMARK, LAN PRODUCTS INC	
GRUB KILLER 1 QT COOPER & NEPHEWS INC	BLUE WOUND DRESSING 35 OZ EAGLES BACON PRODUCTS CO INC
PEST-B-GONE WETTABLE 1 LB CALIFORNIA SPRAY-CHEM CORP	ORTHOTROL 4 QTS CHEVRON CHEMICAL ORTHO DIVISION
GOLDEN MALRIN FLY BAIT 4 LB STARBAR	HONEY-PAC 240 OZ MUNICHEM CORP
GOLDEN MALRIN SUGAR BAIT 10 LB STARBAR	3% CLODRIN INSECTICIDE 1 LB SHELL CHEMICAL CO
SCREW WORM & EAR TICK KILLER 40 OZ COOPER USA INC	HOME ORCHARD SPRAY 1 LB CHEVRON CHEMICAL ORTHO DIVISION
CATTLE PURGE 42 OZ ANCHOR LAB INC	DED-WEED 1.25 GAL THOMPSON HAYWARD CHEMICAL CO
SUTAN 5 GAL STAUFFER CHEMICALS	SORBA-SPRAY MIP 1 GAL LEFFINGWELL CHEMICAL CO
SUPRACIDE 2E 5 GAL CIBA-GIEGY CORP	RAPID-KILL WEED KILLER 1 GAL DEL CHEMICAL CORP
NUDRIN 1.8 5 GAL SHELL CHEMICAL	PANOGEN 15 LIQUID SEED DISINFECTANT PANOGEN INC 2 QTS
KLEAN KROP 5 GAL THOMPSON HAYWARD CHEM CO	SLICK SPREADER STICK WETTING AGENT STARBAR 152 OZ
MOCAP EC 5 GAL MOBIL CO	FLIPO MANGE TREATMENT 64 OZ BACON PRODUCTS CO INC
BUIK 80W 96 LBS GEIGY	LIVESTOCK SPRAY 12 OZ PFIZER, AGRICULTURAL DIVISION
AGROX 3-WAY 180 OZ ICI AMERICA INC	KIL-ZAL ROACH GUARD 1 PT NATIONAL LABORATORIES
	KILL-KO ROACH POWDER 48 02 RIGO CHEMICAL CO

BASAGRAN REAL KILL BUG KILLER 1 PT 1 GAL COOK CHEMICAL CO BASF WYANDOTTE CORP REAL KILL PRODUCTS DIVISION GOLDEN MALDRIN LIQUID 3 GAL RAVAP 4 QTS STARBAR SHELL AG DIVISION ATGARD SWINE WORMER 1632 GR KILL-KO 144 OZ SHELL CHEMICAL CO RIGO CO SUPERSWEET HANGE & LICE CONTROL KILL-KO CYGON 2-B 9 PT INTERNATIONAL MULTIFOODS CORP RIGO CO 80 OZ ROACH & ANT KILLER 360 OZ AGRA LABS TECH II 1 GAL CHEMICAL INDUSTRIES INC AGRA LABS INC AGRA LABS TECH I 12 QTS PATTERSONS BHC EMULSION CONCENTRATE -FERGUSON CHEMICAL CO AGRA LABS INC 2 QTS CYGON 267 1 GAL BASF REBEL 1 GAL BASE WYANDOTTE CORP AMERICAN CYANAINID CORP DE-FEND E-267 BEXTON 4L 5 GAL 5 GAL THOMPSON HAYWARD CHEMICAL CO DOW CHEMICAL CO 10 GAL LIQUID ATRAZINE 5 GAL STOLLER CHEMICAL COMPANY INC TECHNE CORP 50 GAL TOXAPHENE 6 EC ALANAP-L 40 GAL UNIROYAL CHEMICAL CO USS AGRICHEMICALS PREFOX 60 GAL MALATHION GRAIN PROTECTOR GULF OIL CHEMICALS CO LOVELAND INDUSTRIES INC TREFLAN HERBICIDE 1 QT FORAGE PRESERVATIVE 200 LBS ELANCO PRODUCTS CO TRIPLE F FEEDS

TEN 1-QT PLASTIC CONTAINERS WITH NO MARKINGS WERE FOUND IN A BOX THAT WAS LABELED WITH THE FOLLOWING INFORMATION: FMC CORPORATION; ACTIVE INGREDIENTS: 2,3-DIHYDRO-2,2-DIMETHYL-7-BENZOFURARYL METHYLCARBAMATE, CARBOFURAN. ALL TEN OF THE CONTAINERS WERE FULL OF A LIQUID SUBSTANCE.

ON THE FOLLOWING ONE POUND PLASTIC CONTAINER, THE NAME HAD FADED BUT THE ACTIVE INGREDIENTS AND MANUFACTURER WERE LEGIBLE. THE MANUFACTURER WAS MOBAY CHEMICAL COMPANY AND THE ACTIVE INGREDIENTS WERE: 4-AMINO-6-(1,1-DIMETYLETHYL)-3-(METHYLTHIO)-1,2,4, TRIAZIN-5(HH)-ONE. THE MATERIAL IN THE CONTAINER WAS SOLID.

## PESTICIDES WHICH MAY BE USED March 4, 1991

•		
l gallon	Cygon —	
one-12# bag	Orthene 755	
3 cans	Paraquat CL	**RUP**
?	Lindane -	
5 cases	Clobber	
twelve-5 gallon	Perfox	
2 cases	Evic 80W	
5 gallons	Supracide 2B	**RUP**
two-50# bags	- Weed Beads	
two-5 gallon	Bladex 4L	**RUP**
∠ 1 gallon	Pydrin —	**RUP**
3 cases	Lorox	
5 gallons	Lorox L	
1 case	Londak	
?	Tenoran	
5 gallons	Methomyl	
two-15# cans	Dybar	
seven-50# bags	Grain Protectant 2% 1	Malathion
2 gallons	Malathion Farm Bin S	
16 gallons	Mobait	F -7
11 gallons	Farm Bin Spray	
5 gallons	Defend 267	
ten-5 gallons	Alnap L	
twelve-5 gallons	Cobex -	
two-5# bags	Dylox 80%	
two-50# bags	Puradan 10G	**RUP**
thirteen-3# bags	Dithane M-45	
3 gallons	Amiben 264-138	
5 gallons	Sevimol 4	
one-55 gallons	Sevin 4 Oil	
Leventeen-50# bags	Mocap 10G	**RUP**
✓ S gallons	Mocap EC	**RUP**
one-20# bag	Modowm i	, <del></del>
•	Chem Hoe	