

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

DATE:

May 6, 1985

SUBJECT:

Potential Hazardous Waste Site

FROM:

Keith Bradley
Keith Bradley, FIT RPO
Hazardous Waste Section (6ES-SH)

TO:

Martha McKee, Chief
Compliance Section (6AW-SC)

Site Name: Old Midland Products
Location: Old AR
Hazard No.: AR 1902
TDD No.: RB-841070

A. Deliverables:

- 1. Preliminary Assessment (Form 2070-2) attached ()
- 2. Site Inspection Report (Form 2070-3) attached ()
- 3. Sampling Inspection Report attached ()
- 4. Other: Interim report attached

B. Were drinking water wells sampled? Yes () No

C. Analytical Data:

- 1. None collected ()
- 2. Field data ()
- 3. Contract lab results attached
- 4. Houston lab results attached ()

D. Comments:

Results of Jan/Feb 1985 well installation & soil sampling (conings). This interim report includes data available as of April 26; a final report will be submitted upon receipt of the rest of the data

cc:(circle) ~~Gabra 6W-HE~~
~~Gazda 6ES-E~~
~~Taylor 6AW-HE~~



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EPA REGION VI

ECOLOGY & ENVIRONMENT, INC. 1985 MAY -7 AM 10:33

MEMORANDUM

SUPERFUND REGION VI

TO: Keith Bradley, Region VI RPO

FROM: David Anderson, FIT Chemist *DA*

THRU: *FOR* K.H. Malone, Jr., RPM *gnt*

DATE: April 26, 1985

SUBJ: Interim Report - Installation of Monitoring Wells and Sampling at
Old Midland Products Site, Ola, Arkansas (AR1902)
TDD#R6-8410-10

On January 28 - February 7, 1985 the FIT (Tom Smith, Lloyd Collins and Lonnie Ross) supervised the installation of eight (8) groundwater monitoring wells at the Old Midland Products Site in Ola, Arkansas.

Drilling was conducted by Jim Winnek, Inc. (Tulsa, Oklahoma), with a Failing 1500 air rotary rig and consisted of four(4) cluster well locations with a deep well and a shallow well at each location (see attached Well Information Sheet). In general, a shallow aquifer was encountered at depths ranging from 12 ft. to 18 ft. and a deeper aquifer was found at depths ranging from 29 ft. to 36 ft. Well screens were installed at these intervals to allow the retrieval of representative samples from both aquifers. Bentonite was emplaced at appropriate depths to prevent any mixing of the two groundwater zones.

In addition to the installation of the wells, soil samples were collected from selected intervals at each boring. Sample location descriptions (see map and photos) and analytical review comments (see attached Organic and Inorganic summaries) are listed below:

SAMPLE LOCATION DESCRIPTIONS

- Sample location 01 (see photos #1 and #8)-well #1, 10'-15' interval and 40'-42' interval.
- Sample location 02 (see photos #5 and #10)-well #2, 10'-12' interval and 30'-32' interval.
- Sample location 03 (see photos #2, #6 and #7)-well #3, 10'-12' interval and 30'-32' interval.
- Sample location 04 (see photos #3, #4 and #9)-well #4, 10'-12' interval and 40'-42' interval.

The results of chemical analysis of the soil samples collected have been reviewed except for the organic samples from wells 1 and 3 which have not yet been received. These results will be reviewed and forwarded to EPA upon receipt. Sample FB035, a field rinsate blank was not analyzed by the laboratory as per instructions from SMO regarding water samples used as soil blanks.

The inorganic samples were received and analyzed by the laboratory in two batches, samples from wells 1 and 3 in batch 1 and samples from wells 2 and 4 in batch 2. This batching is noted because there appears to be a consistent variation in the quantification of six metals in the two batches. Levels of aluminum, cobalt, vanadium, and potassium are consistently higher in batch 2 while levels of cadmium and lead are higher in batch 1. There is also a major contamination problem with tin and sodium in batch 2.

Levels of arsenic, cobalt, copper, iron, nickel, and zinc all exceeded ambient background levels for the eastern U.S., however a comparison of the samples shows a uniformity which suggests that the levels present are probably the natural backgrounds for the area. Mean ambient background levels are exceeded for chromium, (5 samples) and vanadium (3 samples) however the levels detected, when compared with all samples, appear to be natural background levels. Manganese levels in all eight samples exceeds the ambient background, however only samples from stations 01 (40-42'), 02 (10-12') and 04 (10-12') appear to be elevated when the samples themselves are compared. Five of the eight samples show lead levels above ambient background, however only station 02 (30-32') appears to be elevated when comparing the samples. Levels of barium are lower than ambient background in all eight samples, however the levels in station 02 (10-12') and 04 (10-12') appear to be elevated when comparing the samples. Cadmium, where detected, also exceeded the ambient background, however the quantification question noted earlier makes a complete evaluation impossible.

Most of the organic contaminants detected in the samples are probably laboratory contaminants (methylene chloride, hexane, di-n-butyl and bis (2-ethyl hexyl) phthalates, 1,1,2-tri and 1,1,2,2-tetra chloroethanes). The only non-lab contaminants detected were toluene and pyrene in the shallow well 2 sample and an unknown in the shallow well 4 sample.

TABLE I . INORGANIC ANALYSIS SUMMARY

CASE NUMBER: 3880

SITE NAME/CODE: Midland Products AR1902

PARAMETER	CONCENTRATIONS (ppm)										Ambient Background 1.	
	EPA Sample Numbers										Western U.S. 2.	Eastern U.S. 2.
	MF1964	MF1965	MF1982	MF1983	MF1997	MF1998	MF1985	MF1996	MF1984	MF1999		
Matrix Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Blank	Blank	Soil	Soil
Aluminum	15017	16808	15763	11667	20109	20595	20406	16648	54	40	58,000	33,000
Antimony											.47	.52
Arsenic	17	13	9.4	21	21		29	15			5.5	4.8
Barium	52	58	61	50	98	68	114	62			580	290
Beryllium											0.68	0.55
Cadmium	6.5	8.2	6.5	5.4							<1	<1
Chromium	35	40	36	30	37	35	32	32			41	33
Cobalt	17	17	13		23	23	23	14			7.1	5.9
Copper	27	28	24	15	28	27	25	29			21	13
Iron	59865	53989	46576	35179	49443	37373	47442	37668	43	73	21,000	14,000
Lead	21	24	20	23	10	46	13	8.7	4.9		17	14
Manganese	716	1420	845	658	1752	570	1628	789			380	260
Mercury											0.046	0.081
Nickel	49	57	50	42	51	49	54	49			15	11
Selenium											.23	.30
Silver											-	-
Thallium											9.1	7.7
Tin					454	297	394	435		620	.90	.96
Vanadium	39	41	37	28	52	48	52	41			70	43
Zinc	173	156	145	106	145	127	131	113	8.5		55	40
Cyanide												
Calcium	1100	3207	1505	1836	1757	2141	1290	2149	173			
Magnesium	3982	7145	4748	4647	5036	6487	4117	5632				
Potassium	677	969	939	901	1505	1943	1632	1294				
Sodium					1068	1053	1043	807		530		
Station No.	01	01	03	03	02	02	04	04				
Sample Station Location	Well 1 10-15'	Well 1 40-42'	Well 3 10-12'	Well 3 30-32'	Well 2 10-12'	Well 2 30-32'	Well 4 10-12'	Well 4 40-42'	Blank	Blank		

1. Values obtained from "Element Concentrations in Soils and Other Surface Materials of the Conterminous United States", dated 1984. U.S.G.S. Professional Paper 1270.

2. Reference for East/West Division is the 96°W longitudinal line which bisects Region VI.

SITE NAME/CODE: Midland Products/AR1902

				CONCENTRATIONS (ppb)									
PARAMETERS				EPA SAMPLE NUMBERS									
Compound	Fraction	Class						FB033	FB034	FB016	FB032		
Methylene chloride	VOA	1						180B	280B	590B	100B	43,46,49	
Hexane 329	VOA	3							30	200			
Toluene	VOA	1						11J					
Di-n-butyl phthalate	ABN	1								35J			
Bis (2-ethyl hexyl) phthalate	ABN	1						27J	P	37J	47J		
1,2-trichloroethane 211	ABN	3								80	200		
1,1,2,2-tetrachloroethane 437	ABN	3						100B	100B	200B	600B	200	
Unknown 1862	ABN	3								100			
Pyrene	ABN	1						27J					
Matrix Type										Soil	Soil		
Sample Station Number			01	01	03	03	02	02	04	04			
Sample Station Location							Well 2 10-12'	Well 2 30-32'	Well 4 10-12'	Well 4 40-42'			

1. Priority Pollutant.
2. Specified Hazardous Substance.
3. Tentatively Identified.

- B - The analyte is found in the lab blank.
- J - Indicates an estimated value for tentatively identified compounds or for compounds found below detection limit.
- P - Present in sample, but not reported by lab.

000062

1/30/85

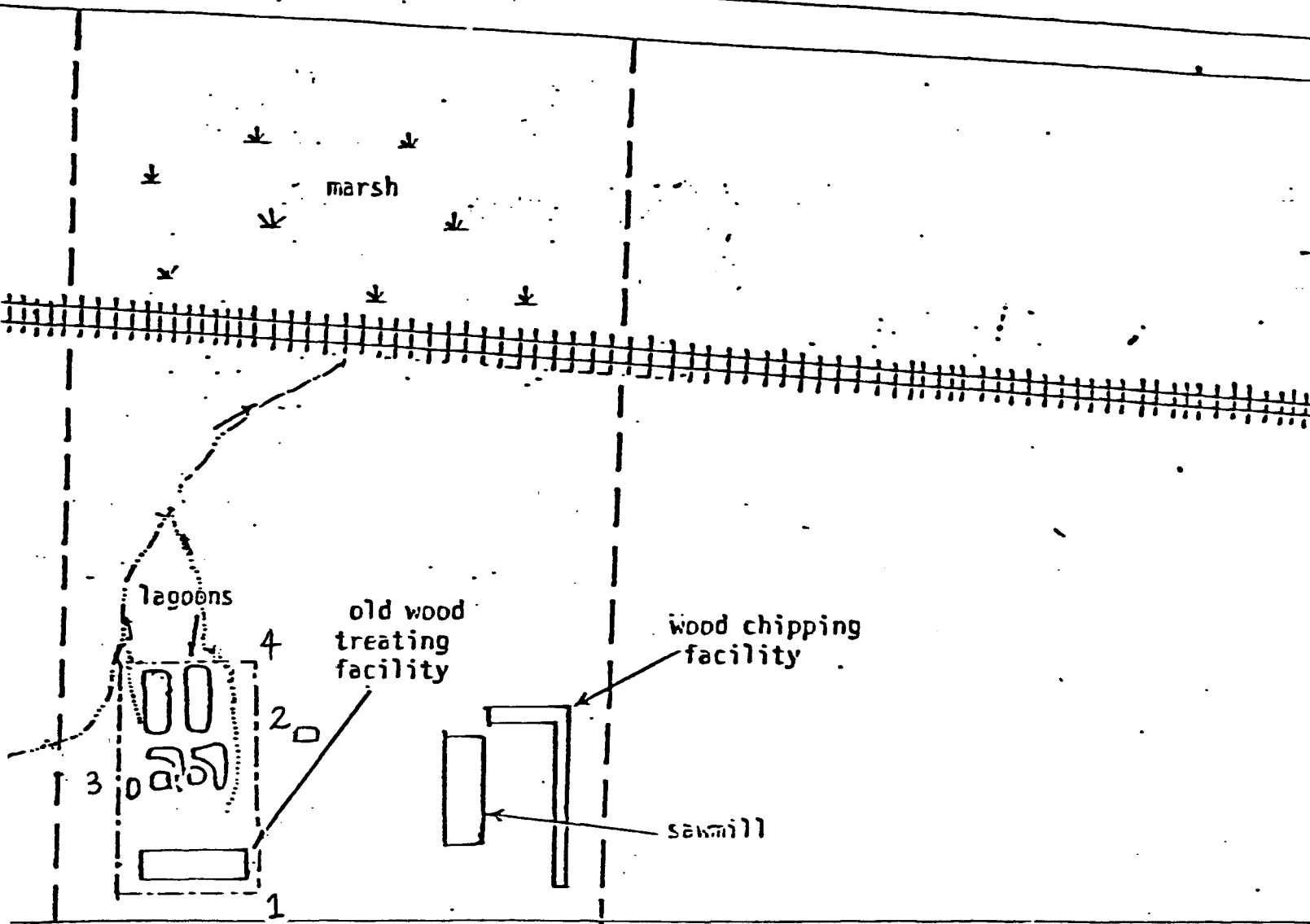
WELL INFORMATION SHEET

<u>Well #</u>	<u>Depth (ft.)</u>	<u>Screened Interval (ft.)</u>	<u>Sand (ft.)</u>	<u>Bentonite (ft.)</u>	<u>Grout (ft.)</u>
1	40	35-40	29-40	27-29	0-27
1s	15	10-15	8-15	6-8	0-6
2	40	25-35	22-40	18-22	0-18
2s	20	10-20	8-20	6-8	0-6
3	35	25-35	25-35	23-25	0-23
3s	20	15-20	13-20	11-13	0-11
4	42	32-42	29-42	27-29	0-27
4s	15	10-15	8-15	6-8	0-6

Old Midland Products Company
 Highway 10
 Ole, AR.

Mr. Mullinax's
 property line _____
 approximate boundary _____
 line of Old Midland
 Products Company _____
 runoff
 intermittent stream _____
 not to scale

Old Highway 10



Highway 10



2 Well locations

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Company ECOLOGY & ENVIRONMENT INC	Department/Floor No.	Company I.T. Corp.	Department/Floor No.
Street Address 1509 MAIN ST STE 014		Exact Street Address (Use of P.O. Boxes or P.O. Zip Codes Will Delay Delivery And Result in Extra Charge) 17605 Fabrica Way Suite "A"	
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 Star R-6-8410-10

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		Total	Total	Total			
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From (Your Name) Com Inc		Your Phone Number (Very Important) (214) 742-6601		To (Recipient's Name) Alan Schottman		Recipient's Phone Number (Very Important) 212, 255-2100	
Company ECOLOGY & ENVIRONMENT INC		Department/Floor No.		Company Charm Tech Consulting Group		Department/Floor No.	
Street Address 2309 MAIN ST STE B14				Exact Street Address (Use of P.O. Boxes or P.O. *Zip Codes Will Delay Delivery And Result in Extra Charge.) 560 West 11th Street			
City DALLAS		State TX		City NY		State NY	

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<input type="checkbox"/> OVERNIGHT DELIVERY USING OUR PACKAGING Courier-Pak Overnight Envelope 12" x 15 1/2"		<input checked="" type="checkbox"/> DELIVER WEEKDAY					
<input type="checkbox"/> OVERNIGHT BOX 12W" x 17 1/2" x 3" A		<input type="checkbox"/> DELIVER SATURDAY (Extra charge applies.)					
<input type="checkbox"/> OVERNIGHT TUBE 38" x 6" x 6" x 6" B		<input type="checkbox"/> RESTRICTED ARTICLES SERVICE (P-1 and Standard Air Packages only. Extra charge applies.)					
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31 Jan 85

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Company ECOLOGY & ENVIRONMENT INC		Department/Floor No.		Company Cham Tech Consulting Group, Ltd.		Department/Floor No.	
Street Address 1509 MAIN ST STE 814				Exact Street Address (Use of P.O. Boxes or P.O. * Zip Codes Will Delay Delivery And Result in Extra Charge.) 360 West 112 Street			
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<input type="checkbox"/> Overnight Box 12 1/2" x 17 1/4" x 3" A		<input type="checkbox"/> RESTRICTED ARTICLES SERVICE (P-1 and Standard Air Packages only. Extra charge applies.)					
<input type="checkbox"/> Overnight Tube 38" x 6" x 6" x 6" B		<input type="checkbox"/> SIGNATURE SECURITY SERVICE (SSS) (Extra charge applies.)					
<input type="checkbox"/> STANDARD AIR Delivery not later than second business day		<input type="checkbox"/> DRY ICE _____ Lbs.					
<input type="checkbox"/> SERVICE COMMITMENT		<input type="checkbox"/> OTHER SPECIAL SERVICE					
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				Received At Shipper's Door <input type="checkbox"/> Regular Stop <input type="checkbox"/> On-Call Stop <input checked="" type="checkbox"/> FedEx Loc. LIT			
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ORGANIS
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 0752-5840-2 31 Jan 85

From (Your Name) Tom Smith		Your Phone Number (Very Important) (214) 742-4521		To (Recipient's Name) Bill Vick		Recipient's Phone Number (Very Important) (619) 456-6727	
Company ECOLOGY & ENVIRONMENT INC		Department/Floor No.		Company Science Applications (SAI)		Department/Floor No.	
Street Address 1509 MAIN ST STE 014				Exact Street Address (Use of P.O. Boxes or P.O. Zip Codes Will Delay Delivery And Result in Extra Charge) 476 Prospect Street			
City DALLAS		State TX		City La Jolla		State Calif.	
AIRBILL NO. 598482883				ZIP *Zip Code Required For Correct Invoicing 75201		ZIP Street Address Zip Required (Use P.O. Box * Zip only) 92038	

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City _____ State _____

SERVICES CHECK ONLY ONE BOX	DELIVERY AND SPECIAL HANDLING CHECK SERVICES REQUIRED	PACKAGES	WEIGHT	YOUR DECLARED VALUE (See right)	OVER SIZE
PRIORITY 1 <input checked="" type="checkbox"/> Priority 1 Delivery Using Your Packaging OVERNIGHT LETTER <input type="checkbox"/> (Our Packaging) 9"x12" OVERNIGHT DELIVERY USING OUR PACKAGING <input type="checkbox"/> Courier-Pak Overnight Envelope 12" x 15 1/2" <input type="checkbox"/> Overnight Box 12 1/2" x 17 1/2" x 3" <input type="checkbox"/> Overnight Tube 38" x 6" x 6" STANDARD AIR <input type="checkbox"/> Delivery not later than second business day SERVICE COMMITMENT <small>PRIORITY 1 - Delivery is scheduled early next business morning in most locations. It may take two or more business days to or from Hawaii or if the destination is outside our primary service areas. STANDARD AIR - Delivery is generally next business day or not later than second business day. It may take three or more business days to or from Hawaii or if the destination is outside our primary service areas.</small>	<input type="checkbox"/> HOLD FOR PICK-UP Give the Federal Express address where you want package held in Section II at right. <input checked="" type="checkbox"/> DELIVER WEEKDAY <input type="checkbox"/> DELIVER SATURDAY (Extra charge applies.) <input type="checkbox"/> RESTRICTED ARTICLES SERVICE (R-1 and Standard Air Packages only. Extra charge applies.) <input type="checkbox"/> SIGNATURE SECURITY SERVICE (SSS) (Extra charge applies.) <input type="checkbox"/> DRY ICE _____ Lbs. <input type="checkbox"/> OTHER SPECIAL SERVICE <input type="checkbox"/> <input type="checkbox"/> SATURDAY PICK-UP OR SATURDAY DROP-OFF (Extra charge applies)	1 1 Total 1 Received At Shipper's Door <input type="checkbox"/> Regular Stop <input checked="" type="checkbox"/> On-Call Stop <input type="checkbox"/> FedEx Loc. Federal Express Corp. Employee No. 17557 Date/Time For Federal Express Use 1/31/85			

YOUR DECLARED VALUE

DAMAGE OR LOSS
 We are liable for no more than \$100 per package in the event of physical loss or damage, unless you fill in a higher Declared Value to the left and document higher actual loss in the event of a claim. We charge 30¢ for each additional \$100 of declared value up to the maximum shown in our Service Guide. Declared value restrictions are shown on the back of the Shipper's Copy of this airbill. We make no express or implied warranties.

DELAY
 There is always a risk of late delivery or non-delivery. In the event of a late delivery Federal Express will, at your request, refund all transportation charges paid. See back of Shipper's Copy of this airbill for further information.

CONSEQUENTIAL DAMAGES
 We will not be responsible or liable for any loss or damage resulting from delay, non-delivery or damage to a package, except as noted above. This includes loss of sales, income, interest, profits, attorneys fees and other costs, but is not limited to these items. Such damages are called "consequential damages."

Base Charges	
Declared Value Charge	
Origin Agent Charge	
Other	
Total Charges	

PART #2041738901
 FEC-S-751-1000
 REVISION DATE 10/84 GBF
 PRINTED U.S.A.

SHIPPER'S COPY

Inorganics

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME				NO. OF CONTAINERS	ANALYSIS IN ORGANICS				REMARKS		
AR 1902		Medford Products											
SAMPLERS: (Signature)													
<i>Shirley Smith</i>													
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION								
01	1/29/85	1120	X		well #1, 10-15' depth	1	X				Tag #6-09378 MF 1964		
01	1/29/85	1330	X		well #1, 40-42' depth	1	X				Tag #6-09381 MF 1965		
03	1-30-85	1102	X		well #3, 10-12' depth	1	X				Tag #6-09384 MF 1982		
03	1-30-85	1120	X		well #3, 30-32' depth	1	X				Tag #6-09465 MF 1983		
Blank	1-30-85	1400		X	Blank #1	1	X				Tag #6-09471 MF 1984		
/													
Relinquished by: (Signature)			Date / Time		Received by: (Signature)			Relinquished by: (Signature)		Date / Time		Received by: (Signature)	
<i>Shirley Smith</i>			1-31-85 1300		Federal express #598482905								
Relinquished by: (Signature)			Date / Time		Received by: (Signature)			Relinquished by: (Signature)		Date / Time		Received by: (Signature)	
Relinquished by: (Signature)			Date / Time		Received for Laboratory by: (Signature)			Date / Time		Remarks			

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

17099925

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME				NO. OF CONTAINERS	<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> Analysis: metals cyanide </div> <div style="border: 1px solid black; width: 100%; height: 100%;"></div> </div>						REMARKS
SAMPLERS: (Signature)													
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION								
04	2-5-85	1447	X		well #4, 10-12' depth	1	✓	✓					Tags # 6-09486 MF 1985
04	2-5-85	1505	X		well #4, 40-42' depth	1	✓	✓					Tag # 6-09600 MF 1996
02	2-6-85	0952	X		well #2, 10-12' depth	1	✓	✓					Tag 6-09603 MF 1997
02	2-6-85	1010	X		well #2, 30-32' depth	1	✓	✓					Tag 6-09606 MF 1998
Blank	2-6-85	1200		X	Blank #2	1	✓	✓					Tag 6-09609 MF 1999
<div style="border: 1px solid black; width: 100%; height: 100%; transform: rotate(-45deg); opacity: 0.5;"></div>													
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)			
<i>John A. ...</i>		2-7-85 1200		Federal Express # 598422850									
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)			
Relinquished by: (Signature)		Date / Time		Received for Laboratory by: (Signature)		Date / Time		Remarks					

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

rigor 5
CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME				NO. OF CONTAINERS	<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Analysis:</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">DPT.</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">UOA</div> </div>				REMARKS	
SAMPLERS: (Signature)												
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION							
AR 1902 Midland Products						<i>Shelley</i>						
04	2-5-85	1447	X		well # 4 10-12' depth		3	✓	✓			Tags # 6-09484 (ext) 6-09485 (UOA) FB 016
04	2-5-85	1505	X		well # 4, 40-42' depth		3	✓	✓			Tags # 6-09487 (ext) 6-09488 (UOA) FB 032
02	2-6-85	0952	X		well # 2, 10-12' depth		3	✓	✓			Tags 6-09601 (ext) 6-09602 (UOA) FB 033
02	2-6-85	1010			well # 2, 30-32' depth		3	✓	✓			Tags 6-09604 (ext) 6-09605 (UOA) FB 034
Blank	2-6-85	1200		X	Blank # 2	3	✓	✓			Tags 6-09607 (ext) 6-09608 (UOA) FB 035	
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;"> <p>NO. OF CONTAINERS</p> </div>												
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)		
<i>Shelley</i>		2-7-85 1200		<i>Federal Express</i> # 598 482 846								
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)		
Relinquished by: (Signature)		Date / Time		Received for Laboratory by: (Signature)		Date / Time		Remarks				

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

1



Photographer / Witness

Tom Smith / L. Ross

Date / Time / Direction

31 Jan 85 / 0920 / South

Comments:

Wells #1, #2s

immediately after installation.

2



Photographer / Witness

Tom Smith / L. Ross

Date / Time / Direction

31 Jan 85 / 0930 / North

Comments:

Wells #3, #3s

immediately after installation

3



Photographer / Witness

Tom Smith / L. Ross

Date / Time / Direction

5 Feb 85 / 1515 / South

Comments:

Well #4s being drilled

with air rotary



Photographer / Witness

Tom Smith / L. Ross

Date / Time / Direction

6 Feb 85 / 1347 / Northeast

Comments:

Wells # 4, # 4s

immediately after installation



Photographer / Witness

Tom Smith / L. Ross

Date / Time / Direction

6 Feb 85 / 1433 / Northwest

Comments:

Wells # 2, # 2s

immediately after installation



Photographer / Witness

Tom Smith / L. Ross

Date / Time / Direction

7 Feb 85 / 1050 / North

Comments:

Wells # 3 (background),

3s (foreground)



Photographer / Witness

Tom Smith / L. Ross

Date / Time / Direction

6 Feb 85 / 1539 / west

Comments:

Well # 3s being
grouted (cemented)

Photographer / Witness

Date / Time / Direction

Comments:



Photographer / Witness

Tom Smith / L. Ross

Date / Time / Direction

7 Feb 85 / 1110 / west

Comments:

Wells # 1 (right)
2s (left)



ecology and environment, inc.

1509 MAIN STREET, SUITE 814,
DALLAS, TEXAS 75201

NEGATIVES

recycled paper

000075

midland 4 of 4

Photographer / Witness

Date / Time / Direction

Comments:

9

Photographer / Witness

Tom Smith / Li Ross

Date / Time / Direction

7 Feb 85 / 1300 / Northwest

Comments:

Wells # 4 (left)

4s (right)

10

Photographer / Witness

Tom Smith / Li Ross

Date / Time / Direction

7 Feb 85 / 1310 / Northwest

Comments:

Wells # 2 (left)

2s (right)



000075.001