MARTEL

161747

Certificate of Laboratory Analysis

Martel Laboratory Services, Inc. 1025 Cromwell Bridge Road Baltimore, Maryland 21204 (301) 82 30

ORIGINAL

Invoice Number 15060

(Rev) Page 1 of 4 page(s)

Sample W-6640-S 102 Soil samples and 3 blanks received by Martel Laboratory Services on 11/5/84, all taken from Shaffer Electric Co., Minden, WV, P.O.#19148

Roy F. Weston
5090 Central Highway, Suite 3
Pennsauken, New Jersey 08109

November 21, 1984

Attention: Cesar Lee

Station No.	PCB's ppm
001	370
002	14
003	1,100
004	130
005	510
006	5.2
007	390
008	110
009	190
010	1.9
011	2.2
012	2,100
013	6.2
014	47
015	3.5
016	10
017	110
018	340
019	690
020	210,000*
021	19,000
022	405

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Roy F. Weston
November 21, 1984
Page Two

ORIGINAL
(Red)

Station No.	PCB's ppm
023	7.5
024	110
025	3.4
026	2.2
027	6.0
028	17
029	<1
030	37
031	2.1
032	48
033	5.1
034	27
035	3.4
036	52
037	64
038	46
039	57
040	3.8
041	66
042	12
043	58
044	390
045	400
046	28
047	3.4
048	12
049	250
050	610*

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Roy F. Weston
November 21, 1984
Page Three

Station No.	PCB's ppm
051	4,200
052	330
053	140
054	22
055	2,700
056	2,900
057	160
058	11,000
059	260
060	250
061	49,000
062	33
063	210
064	49
065	510
066	190
067	110
068	1,800
069	450
070	11,000
071	5.0
072	130
073	31
074	12
075	25
076	9.4
077	15
078	93
079	13
080	21

AR100031

MARTEL

Roy F. Weston
November 21, 1984
Page Four

ORIGINAL (Red)

Station No.	PCB's ppm
081	190
082	6.7
083	81
084	30
085	24
086	4.7
087	8.4
088	100
089	410
090	8.2
091	28
092	<1
093	<1
094	<1
095	<1
096	<1
097	<1
098	190
099	2.2
100	140
101	98
102	<1
103 (Blank)	<1
104 (Blank)	<1
105 (Blank)	<1

NOTE: All positive PCB values are as Arochlor 1260, except for samples marked (*), which were Arochlor 1254.

100032

Robert G. Edwards, Ph. D.
Vice President

jel

MARTEL

Martel Laboratory Services, Inc. 1025 Cromwell Bridge Road Baltimore, Maryland 21204 (301) 825-

November 29, 1984

Roy F. Weston
5090 Central Highway, Suite 3
Pennsauken, New Jersey 08109

ORIGINAL (Red)

Attention: Garrett Arai

Attachment to report W-6640-S (November 21, 1984)

Blanks

Blanks were run after every 9 samples. Where they followed a very high result, they were later repeated. (Note that when a low sample result followed a very high result, ratio 20:1 or greater, the low sample was also repeated.)

Martel blank #	Blank result (ppm)	Value of preceding sample (ppm)	Repeat of blank (ppm)
1	<1	-	-
11	1.4	57	-
21	<1	12	-
31	4.6	160	<1
41	5.2	190	<1
51	1.8	25	-
61	3.1	93	<1
71	4.3	210	<1
81	<1	<1	-
91	<1	<1	-
101	4.2	190	<1
111	16	340	<1
121	<1	<1	-

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ORIGINAL (Red)

Replicates

10% of samples were picked at random for replicate analysis:

Weston sample no.	Result (ppm)	Replicate result (ppm)
003	1100	1000
018	340	330
025	3.9	3.5
028	17	18
046	28	29
055	2700	2500
068	1800	1700
082	6.7	7.5
092	<1	<1
100	140	152

Standards

Standards equivalent to 1, 25 and 125 ppm Arochlor 1260 were analyzed at the beginning, middle and end of the run, the results averaged, and calibration curves constructed.

Standard	Max. variation from mean of 3 analyses
1 ppm	± 5%
25 ppm	± 2.2%
115 ppm	± 2.1%

Samples with results exceeding 125 ppm were appropriately rediluted and rerun. Samples containing predominately Arochlor 1254 were reanalyzed at the end of the run, Arochlor 1254 standards were also run at this time.

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ORIGINAL
(Red)

Recovery

Using a 100 ppm spike on a sample previously analyzed as 48ppm:

Analytical result	144 ppm
True value	148 ppm
Recovery	96 %

ENVIRONME PROTECTION AGENCY
O. of Enforcement

REG 3
Curtis Bldg., Walnut Sts.
Philadelphia, Pennsylvania 19106

CHAIN OF CUSTODY RECORD

PROJ. NO.

PROJECT NAME: [illegible] Electric Co. Mindes, [illegible]

SAMPLERS: (Signature) [illegible]

ORIGINAL (Red)

Verbal Results as read by Robert Howard to Cesar Lee 11/19 [illegible]

REMARKS: * weight [illegible] high for Aldrin 1260 (-) unless specified

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	4 oz glass with teflon lid liners							REMARKS
[illegible]	[illegible]	1[illegible]M		✓	surface soil per map	1	1							370
[illegible]				✓	12" core @ 001	1	1							14
[illegible]				✓	surface soil per map	1	1							1100
[illegible]				✓	12" core @ 003	1	1							130
[illegible]				✓	surface soil per map	1	1							main drainage ditch 510
[illegible]				✓	12" core @ 005	1	1							12*
[illegible]				✓	surface soil per map	1	1							50' down ditch from 005 390
[illegible]				✓	12" core @ 007	1	1							110
[illegible]				✓	surface soil per map	1	1							35' down ditch from 007 119
[illegible]				✓	surface soil per map	1	1							1.9
011				✓	8" core @ 010	1	1							2.2
012				✓	surface soil	1	1							2100
013				✓	12-15" core @ 012	1	1							17*
014				✓	surface soil per map	1	1							47
[illegible]				✓	2'12" core @ 014	1	1							3.5

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[illegible]	11/2/84 10:30				
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	
				Shipped by Emery Shipment # 40380	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 3
Curtis Bldg & Walnut Sts.
Philadelphia, Pennsylvania 19106

CHAIN OF CUSTODY RECORD

ORIGINAL

AR100037

PROJ. NO.	PROJECT NAME
	Shaffer Electric Co. Morgan, NV

SAMPLERS: (Signature) [illegible]

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Glass bottle	Yellow lid liners					REMARKS	
010	11/1/84	1100		✓	surface soil per map	1	1						saturated soil near tanks drum	10
011				✓	R-12" core @ 016	1	1						~~capacitors area~~ PEC	110
012				✓	surface soil per map	1	1						capacitor storage area	340
013				✓	R" core @ 018	1	1						" " "	690
014				✓	surface soil per map	1	1						" " " Aroclor-1254 (2ppb)	
015				✓	12-16" core @ 020	1	1						" " "	1900
016				✓	surface soil per map	1	1							405
017				✓	17" core @ 022	1	1							20
018				✓	surface soil per map	1	1						near capacitors in grass	110
019				✓	15-18" core @ 024	1	1						" " " "	39
020				✓	surface soil per map	1	1						in front of "Bad" drums	22
021				✓	15-18" core @ 026	1	1						" " " " "	6.0
022				✓	surface soil per map	1	1							17
023				✓	17" core @ 028	1	1							<1
024				✓	surface soil per map	1	1							37

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[illegible]	11/2/84 10 30				
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**	
				Shipped by Emery Shipment # 90330	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field F

2-10000

ENVIRONM[illegible]AL PROTECTION AGENCY
[illegible] of Enforcement

RE[illegible]N 3
Curtis Bldg., [illegible] & Walnut Sts.
Philadelphia, Pennsylvania 1910[illegible]

CHAIN OF CUSTODY RECORD

PROJ. NO.:

PROJECT NAME: [illegible] Electric Co. Mendon, Ill

SAMPLERS; (Signature): [illegible]

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Gas chromatograph	Sulfur in Liquids					REMARKS	
[illegible]	11/1/84	[illegible]		✓	12" core 0-50	1	1							2.1
[illegible]				✓	surface soil on map	1	1							48
[illegible]				✓	8-12" core @ 032	1	1							5.1
[illegible]				✓	surface soil on map	1	1							27
[illegible]				✓	12" core @ 034	1	1							3.4
[illegible]				✓	surface soil on map	1	1							52
[illegible]				✓	" " " "	1	1							64
[illegible]				✓	" " " "	1	1							46
[illegible]				✓	" " " "	1	1							57
[illegible]				✓	" " " "	1	1							3.8
[illegible]				✓	" " " "	1	1							66
[illegible]				✓	" " " "	1	1							12
[illegible]				✓	" " " "	1	1							58
[illegible]				✓	" " " "	1	1							390
[illegible]				✓	" " " "	1	1							400

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[illegible]	11/2/84 10 30				
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	
				Shipped by Emery Shipment #90380	

Distribution: Original Accompanies Shipment; Copy to Coordinator File

ARI 00038

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 3
Curtis Bldg. & Walnut Sts.
Philadelphia, Pennsylvania 19106

CHAIN OF CUSTODY RECORD

PROJECT NAME: SHAFER Electric Mindon WV

SAMPLERS: (Signature) [illegible] Lisa [illegible]

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	8oz glass w/ Teflon lid liner	REMARKS
046	11/1/84	10:00		✓	surface Soil as per Map	1	1	28
047	"	"		✓	" " " "	1	1	3.4
048	"	"		✓	" " " "	1	1	12
049	"	"		✓	" " " "	1	1	250
050	"	"		✓	" " " "	1	1	Aroclor 1254 (~61ppm)
051	"	"		✓	" " " "	1	1	4200
052	"	"		✓	" " " "	1	1	330
053	"	"		✓	" " " "	1	1	140
054	"	"		✓	" " " "	1	1	22
055	"	"		✓	" " " "	1	1	270
056	"	"		✓	" " " "	1	1	2900
057	"	"		✓	" " " "	1	1	1605
058	"	"		✓	" " " "	1	1	11,000
059	"	"		✓	" " " "	1	1	260
060	"	"		✓	" " " "	1	1	250

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[illegible]	11/2/84 10:30				
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: Shipped by Emery Shipment #-90380	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

AR100039

2-10007

ENVIRONM[illegible] PROTECTION AGENCY
O[illegible] of Enforcement

RE[illegible] 3
[illegible] Curtis Bldg., [illegible] Walnut Sts.
Philadelphia, Pennsylvania 19106

CHAIN OF CUSTODY RECORD

PROJ. NO.

PROJECT NAME: Spartan Electric Co. Minden, Nev.

SAMPLERS: (Signature) [illegible]

ORIGINAL (Red)

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Roughness	Tile					REMARKS
061	11/1/84	1400		✓	surface soil as per map	1	1						49,000
062				✓	" " " " "	1	1		1				230
063				✓	" " " " "	1	1		1				210
064				✓	" " " " "	1	1		1				99
065				✓	" " " " "	1	1		1				510
066				✓	" " " " "	1	1		1				190
067				✓	" " " " "	1	1						110
068				✓	" " " " "	1	1						1300
069				✓	" " " " "	1	1						450
070				✓	" " " " "	1	1		1				11,000
071				✓	" " " " "	1	1		1				35 ↑
072				✓	" " " " "	1	1		1				130
073				✓	" " " " "	1	1						31
014				✓	" " " " "	1	1						12
015	↓	↓		✓	" " " " "	1	1						25

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[illegible]	11/2/84 10:30 am				
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: Shipped by Emery Shipment #- 90380	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field

AR000040

ENVIRONMENTAL PROTECTION AGENCY — REGION 3
Office of Enforcement — Curtis Bldg & Walnut Sts.
Philadelphia, Pennsylvania 1910

CHAIN OF CUSTODY RECORD

PROJECT NAME: SHAFFER [illegible]

PROJ. NO.:

SAMPLERS: (Signature) [illegible]

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	[illegible]						REMARKS
[illegible]	11/1/84	[illegible]		✓	[illegible]	1	1						9.4
[illegible]				✓		1	1						15
[illegible]				✓		1	1						93
[illegible]				✓		1	1						13
[illegible]				✓		1	1						21
[illegible]				✓		1	1						190
[illegible]				✓		1	1						7.5
[illegible]				✓		1	1						81
[illegible]				✓		1	1						30
[illegible]				✓		1	1						24
[illegible]				✓		1	1						9.7
[illegible]				✓		1	1						8.4
[illegible]				✓		1	1						100
[illegible]				✓		1	1						410
[illegible]				✓		1	1						11

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[illegible]	11/2/84 10:30				
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	
					Shipped by Emery Shipment # 903 [illegible]

Distribution: Original Accompanies Shipment; Copy to Coordinator Field

3-12101

ENVIRONME[illegible] PROTECTION AGENCY
Of[illegible] of Enforcement

REG[illegible]N 3
Curtis Bldg., [illegible] Walnut Sts.
Philadelphia, Pen[illegible]ylvania 19106

CHAIN OF CUSTODY RECORD

ORIGINAL

AR190042

PROJ. NO.: [illegible]

PROJECT NAME: Shaffer Equipt. Co. Minden, NV

SAMPLERS: (Signature) [illegible]

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	4 oz glass w/ teflon lid liners						REMARKS	
001	11/1/84	1100		✓	surface soil as per map	1	1							28
002	11/1/84	0900		✓	Ashuttle Creek Sediment	1	1						≈200' upstream of site	<1
003		0905		✓	background soil	1	1						75' uphill of Minn's Grocery	
004		0910		✓	background soil	1	1						1/4 mile uphill of site.	
005		0917		✓	Ashuttle Creek Sediment	1	1						upstream @ bridge	
006		0925		✓	Ashuttle Creek Sediment	1	1						@ 1st Site discharge ditch	
007		0934		✓	Ashuttle Creek Sediment	1	1						@ 2nd " " "	
008		0937		✓	Ashuttle Creek Sediment	1	1						@ 3rd " " "	190
009		0946		✓	" " "	1	1						≈0' upstream of main discharge	29
100		1000		✓	" " "	1	1						3' downstream " " "	190
101		1000		✓	" " "	1	1						upstream of bridge @ entrance	9.8
102		1000		✓	downstream soil	1	1						[illegible]	<1
103		1007		✓	Blank	1	1						distilled water	
104		1002		✓	"	1	1						" "	
105		1002		✓	"	1	1						" "	

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[illegible]	11/2/84 10:30				
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	
				Shipped via Emery - Airbill # 50380	

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