EPA Region 5 Records Ctr.
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Request

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T.A.T. M.H.K. J.A.K.

MICHIGAN PAPERBOARD CORPORATION
ACCOUNTS PAYABLE DISTRIBUTION 5/31/89

IT BER	VENDOR NO.	NAME	INVOICE NUMBER	BATCH NO.	DUE DATE	NET AMOUNT	RAW MATL POUNDS		
:-01									
	S100	ST REGIS EMPLOYEE ACTIVITY COM	BELL TELEP	0539	5/26	11.08			
	S100	ST REGIS EMPLOYEE ACTIVITY COM	MABELL	0541	5/26	8.35			
		ACCTS REC - UNAPPLIED		ACCOUNT TOTAL		19.43		***	1-1102-01
-01									
	I007	BRYANT, WILLIAM	11-9\4-6	0501	5/02	500.00-			
		SALARY LOANS		ACCOUNT TOTAL		500.00-		***	1-1401-01
-01									
	A111	ANGLIN, SUSAN	TRAVEL ADV	0502	5/05	200.00			
	A111	ANGLIN, SUSAN	WE 5-14-89	0534	5/23	700.00-			
		ADVANCE		ACCOUNT TOTAL		500.00-		***	1-1404-01
-01									
	A022	ALOHA TRANSPORTATION CO.	6778	0504	5/05	438.00			
	A022	ALOHA TRANSPORTATION CO.	6802	0504	5/05	260.00			
	A022	ALOHA TRANSPORTATION CO.	6831	0504	5/05	260.00			
	A022	ALOHA TRANSPORTATION CO.	6833	0504	5/05	260.00			
	A022	ALOHA TRANSPORTATION CO.	6794	0504	5/05	260.00			
	A022	ALOHA TRANSPORTATION CO.	6760	0515	5/12	155.00			
	A022	ALOHA TRANSPORTATION CO.	6955	0540	5/26	260.00			
	A022	ALOHA TRANSPORTATION CO.	6986	0540	5/26	260.00			
	A022	ALOHA TRANSPORTATION CO.	7067	0540	5/26	203.68			
	B035	BEHNKE, INC.	32287	0504	5/05	260.00			
	B035	BEHNKE, INC.	32174	0504	5/05	155.00			
	B035	BEHNKE, INC.	31558	0511	5/12	260.00			
	B035	BEHNKE, INC.	31994	0511	5/12	260.00			
	B035	BEHNKE, INC.	32796	0519	5/12	260.00			
	B035	BEHNKE, INC.	32793	0519	5/12	260.00			
	B035	BEHNKE, INC.	32398	0528	5/19	260.00			
	B035	BEHNKE, INC.	33133	0540	5/26	260.00			
	D042	DONCO PAPER SUPPLY COMPANY	85739	0503	5/19	3,534.30	42,840		
	D042	DONCO PAPER SUPPLY COMPANY	85940	0533	5/26	4,071.37	41,260		
	F034	FINELINE FREIGHTWAYS, INC.	13366	0511	5/12	367.20			
	F062	FIELD CONTAINER CORPORATION	65117	0508	5/12	2,862.30	286,230		
	F062	FIELD CONTAINER CORPORATION	65118	0508	5/12	3,089.10	44,130		
	F062	FIELD CONTAINER CORPORATION	65119	0508	5/12	2,604.00	37,200		
	F062	FIELD CONTAINER CORPORATION	65120	0508	5/12	2,788.80	39,840		
	F062	FIELD CONTAINER CORPORATION	65121	0508	5/12	2,496.20	35,660		
	F062	FIELD CONTAINER CORPORATION	65422	0531	5/19	2,958.20	42,500		
	F062	FIELD CONTAINER CORPORATION	66222	0538	5/26	2,863.40	36,620		
	F062	FIELD CONTAINER CORPORATION	66220	0538	5/26	3,040.80	43,440		
	F062	FIELD CONTAINER CORPORATION	66212	0538	5/26	2,800.00	40,000		
	F062	FIELD CONTAINER CORPORATION	66214	0538	5/26	2,916.20	41,660		
	F062	FIELD CONTAINER CORPORATION	66213	0538	5/26	3,185.70	45,580		
	P004	LOUIS PADNOS IRON & METAL CO.	368820	0509	5/26	2,949.30	40,680		
	P004	LOUIS PADNOS IRON & METAL CO.	368819	0516	5/12	3,029.78	41,790		
	R052	RIVER VALLEY PAPER COMPANY	9004	0533	6/09	2,876.80	37,120		
	R052	RIVER VALLEY PAPER COMPANY	8524	0533	6/09	3,242.60	41,840		
	W025	WILMINGTON PAPER CORP.	16834	0509	5/19	2,928.00	39,039		
	W025	WILMINGTON PAPER CORP.	16794	0509	5/12	192.45	2,565		
	W025	WILMINGTON PAPER CORP.	16912	0512	5/19	1,009.50	13,460		
	W025	WILMINGTON PAPER CORP.	16838	0531	5/19	1,998.00	26,640		
		HWY PRTD BL KRAFT #1		ACCOUNT TOTAL		62,135.68	1,020,094	***	1-1502-01
-01									
	B137	BELL FIBRE PRODUCTS CORP	3-25255	0545	6/02	2,215.50			
		SOLID KRAFT BAGS		ACCOUNT TOTAL		2,215.50		***	1-1503-01
-01									
	C088	CEREAL CITY RECYCLING	2493	0516	6/09	407.80	13,680		
		NEW CORRUGATED		ACCOUNT TOTAL		407.80	13,680	***	1-1504-01

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MICHIGAN PAPERBOARD CORPORATION
ACCOUNTS PAYABLE DISTRIBUTION 5/31/89

IT IBER	VENDOR NO.	NAME	INVOICE NUMBER	BATCH NO.	DUE DATE	NET AMOUNT	RAW MATL POUNDS	
5-01								
	A022	ALOHA TRANSPORTATION CO.	6839	0504	5/05	256.80		
	B035	BEHNKE, INC.	32316	0504	5/05	145.00		
	B035	BEHNKE, INC.	32487	0511	5/12	145.00		
	B035	BEHNKE, INC.	32432	0511	5/12	145.00		
	B035	BEHNKE, INC.	26811	0511	5/12	126.00		
	B035	BEHNKE, INC.	33168	0528	5/19	145.00		
	M137	MEDINA PAPER RECYCLING, INC.	17427	0503	5/26	2,369.20	43,940	
	M137	MEDINA PAPER RECYCLING, INC.	12492	0508	6/02	2,314.00	46,280	
	M137	MEDINA PAPER RECYCLING, INC.	12479	0508	6/02	2,284.00	45,680	
	M137	MEDINA PAPER RECYCLING, INC.	17429	0508	6/02	2,357.04	43,680	
	P004	LOUIS PADNOS IRON & METAL CO.	368653	0503	5/19	1,524.75	40,660	
	P004	LOUIS PADNOS IRON & METAL CO.	368652	0503	5/19	1,626.25	43,420	
	P004	LOUIS PADNOS IRON & METAL CO.	368651	0503	5/19	1,606.58	41,460	
	P004	LOUIS PADNOS IRON & METAL CO.	368650	0503	5/19	1,625.18	41,940	
	P004	LOUIS PADNOS IRON & METAL CO.	368592	0503	5/19	1,518.00	40,480	
	P004	LOUIS PADNOS IRON & METAL CO.	368591	0503	5/19	1,507.50	40,200	
	P004	LOUIS PADNOS IRON & METAL CO.	368593	0503	5/19	1,582.55	40,840	
	P004	LOUIS PADNOS IRON & METAL CO.	368823	0509	5/19	1,510.50	40,280	
	P004	LOUIS PADNOS IRON & METAL CO.	368821	0509	5/26	1,147.50	30,600	
	P004	LOUIS PADNOS IRON & METAL CO.	368863	0508	5/26	1,610.45	41,560	
	P004	LOUIS PADNOS IRON & METAL CO.	368864	0508	5/26	1,501.50	40,040	
	P004	LOUIS PADNOS IRON & METAL CO.	368976	0512	5/26	1,609.88	42,930	
	P004	LOUIS PADNOS IRON & METAL CO.	368825	0516	5/26	1,515.00	40,400	
	P004	LOUIS PADNOS IRON & METAL CO.	369128	0523	6/02	1,440.75	38,420	
	P004	LOUIS PADNOS IRON & METAL CO.	369290	0533	6/09	1,524.04	39,330	
	P004	LOUIS PADNOS IRON & METAL CO.	369405	0533	6/02	1,461.00	38,960	
	P004	LOUIS PADNOS IRON & METAL CO.	369291	0533	6/02	1,649.20	42,560	
	P004	LOUIS PADNOS IRON & METAL CO.	369292	0533	6/02	1,721.28	44,420	
	P004	LOUIS PADNOS IRON & METAL CO.	369293	0533	6/09	1,627.50	42,000	
	P004	LOUIS PADNOS IRON & METAL CO.	369294	0533	6/09	1,597.28	41,220	
	P004	LOUIS PADNOS IRON & METAL CO.	369289	0533	6/02	1,680.75	44,820	
	P004	LOUIS PADNOS IRON & METAL CO.	369585	0543	6/09	1,728.75	46,100	
	P004	LOUIS PADNOS IRON & METAL CO.	369588	0543	6/09	1,660.83	42,860	
	P004	LOUIS PADNOS IRON & METAL CO.	369586	0543	6/09	1,531.50	40,840	
	P004	LOUIS PADNOS IRON & METAL CO.	369736	0543	6/02	1,680.00	44,800	
	P004	LOUIS PADNOS IRON & METAL CO.	369734	0543	6/09	1,520.25	40,540	
	P004	LOUIS PADNOS IRON & METAL CO.	369733	0543	6/02	1,617.00	43,120	
	P004	LOUIS PADNOS IRON & METAL CO.	369731	0543	6/09	1,665.48	42,980	
	R098	RITE TRANSPORTATION SYSTEM	103730	0504	5/05	145.00		
	R098	RITE TRANSPORTATION SYSTEM	103978	0504	5/05	145.00		
	R098	RITE TRANSPORTATION SYSTEM	104288	0511	5/12	115.00		
	R098	RITE TRANSPORTATION SYSTEM	105030	0519	5/12	115.00		
	R098	RITE TRANSPORTATION SYSTEM	104368	0519	5/12	115.00		
	R098	RITE TRANSPORTATION SYSTEM	104845	0515	5/12	115.00		
	R098	RITE TRANSPORTATION SYSTEM	104084	0515	5/12	145.00		
	R098	RITE TRANSPORTATION SYSTEM	104655	0528	5/19	145.00		
	R098	RITE TRANSPORTATION SYSTEM	105250	0528	5/19	115.00		
	R098	RITE TRANSPORTATION SYSTEM	104217	0528	5/19	145.00		
	R098	RITE TRANSPORTATION SYSTEM	104560	0528	5/19	115.00		
	R098	RITE TRANSPORTATION SYSTEM	105246	0528	5/19	145.00		
	R098	RITE TRANSPORTATION SYSTEM	105514	0528	5/19	115.00		
	R098	RITE TRANSPORTATION SYSTEM	104818	0528	5/19	145.00		
	R098	RITE TRANSPORTATION SYSTEM	105942	0528	5/19	115.00		
	R098	RITE TRANSPORTATION SYSTEM	104990	0540	5/26	145.00		
	R098	RITE TRANSPORTATION SYSTEM	105694	0540	5/26	145.00		
	R098	RITE TRANSPORTATION SYSTEM	105518	0540	5/26	145.00		
	R098	RITE TRANSPORTATION SYSTEM	105730	0540	5/26	115.00		
	R098	RITE TRANSPORTATION SYSTEM	106068	0540	5/26	145.00		
		DBL LN KRAFT		ACCOUNT TOTAL		56,910.29	1,337,360 ***	1-1505-01
-01								
	A022	ALOHA TRANSPORTATION CO.	6856	0504	5/05	396.15		
	A022	ALOHA TRANSPORTATION CO.	6865	0504	5/05	200.00		
	A022	ALOHA TRANSPORTATION CO.	6881	0504	5/05	200.00		
	A022	ALOHA TRANSPORTATION CO.	6866	0504	5/05	200.00		
	A022	ALOHA TRANSPORTATION CO.	6917	0511	5/12	200.00		
	A022	ALOHA TRANSPORTATION CO.	6901	0511	5/12	200.00		
	A022	ALOHA TRANSPORTATION CO.	6918	0511	5/12	200.00		
	A022	ALOHA TRANSPORTATION CO.	6913	0511	5/12	200.00		
	A022	ALOHA TRANSPORTATION CO.	6884	0511	5/12	200.00		
	A022	ALOHA TRANSPORTATION CO.	6925	0511	5/12	200.00		
	A022	ALOHA TRANSPORTATION CO.	6937	0515	5/12	200.00		

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ACCOUNTS PAYABLE DISTRIBUTION 5/31/89

IT BER	VENDOR NO.	NAME	INVOICE NUMBER	BATCH NO.	DUE DATE	NET AMOUNT	RAW MATL POUNDS
	A022	ALOHA TRANSPORTATION CO.	6757	0526	5/19	200.00	
	A022	ALOHA TRANSPORTATION CO.	7000	0528	5/19	200.00	
	A022	ALOHA TRANSPORTATION CO.	6982	0528	5/19	200.00	
	A022	ALOHA TRANSPORTATION CO.	6948	0528	5/19	200.00	
	A022	ALOHA TRANSPORTATION CO.	6976	0540	5/26	260.00	
	A022	ALOHA TRANSPORTATION CO.	7013	0540	5/26	200.00	
	B013	BRADY PAPER RECYCLING	2579	0503	5/26	869.97	40,940
	B013	BRADY PAPER RECYCLING	2577	0503	5/26	933.72	43,940
	B035	BEHNKE, INC.	32108	0504	5/05	200.00	
	B035	BEHNKE, INC.	32253	0504	5/05	200.00	
	B035	BEHNKE, INC.	32239	0504	5/05	200.00	
	B035	BEHNKE, INC.	32238	0504	5/05	200.00	
	B035	BEHNKE, INC.	32237	0504	5/05	200.00	
	B035	BEHNKE, INC.	32235	0504	5/05	200.00	
	B035	BEHNKE, INC.	32075	0504	5/05	200.00	
	B035	BEHNKE, INC.	32030	0511	5/12	145.00	
	B035	BEHNKE, INC.	32841	0519	5/12	200.00	
	B035	BEHNKE, INC.	32672	0515	5/12	200.00	
	B035	BEHNKE, INC.	32618	0515	5/12	145.00	
	B035	BEHNKE, INC.	32765	0515	5/12	145.00	
	B035	BEHNKE, INC.	32763	0515	5/12	200.00	
	B035	BEHNKE, INC.	33037	0528	5/19	145.00	
	B035	BEHNKE, INC.	32940	0528	5/19	145.00	
	B035	BEHNKE, INC.	32964	0528	5/19	256.80	
	B035	BEHNKE, INC.	32859	0528	5/19	256.80	
	B035	BEHNKE, INC.	32855	0528	5/19	256.80	
	B035	BEHNKE, INC.	33210	0528	5/19	256.80	
	B035	BEHNKE, INC.	33102	0528	5/19	200.00	
	B035	BEHNKE, INC.	33208	0528	5/19	200.00	
	B035	BEHNKE, INC.	33185	0528	5/19	200.00	
	B035	BEHNKE, INC.	33034	0528	5/19	200.00	
	B035	BEHNKE, INC.	32884	0528	5/19	200.00	
	B035	BEHNKE, INC.	33598	0540	5/26	200.00	
	B035	BEHNKE, INC.	33457	0540	5/26	200.00	
	B035	BEHNKE, INC.	33455	0540	5/26	200.00	
	B035	BEHNKE, INC.	33510	0540	5/26	200.00	
	B035	BEHNKE, INC.	33333	0540	5/26	200.00	
	B035	BEHNKE, INC.	33207	0540	5/26	200.00	
	B035	BEHNKE, INC.	33528	0540	5/26	189.75	
	C056	CENTRAL STATES FIBER CORP	18762	0531	6/02	645.60	43,000
	C088	CEREAL CITY RECYCLING	2494	0516	6/09	933.35	47,620
	C088	CEREAL CITY RECYCLING	2508	0533	6/09	948.40	48,480
	D055	DOMTAR FIBER PRODUCTS, INC.	9006816	0509	5/26	1,010.50	44,320
	D055	DOMTAR FIBER PRODUCTS, INC.	9006828	0509	5/26	968.31	41,900
	D055	DOMTAR FIBER PRODUCTS, INC.	09006867	0533	6/09	1,013.71	44,500
	E071	EVANGELIST COMMERCIAL CORP.	44389	0526	5/19	270.00	
	E071	EVANGELIST COMMERCIAL CORP.	44501	0540	5/26	260.00	
	F016	FLOM CORP.	51370	0503	5/12	793.10	45,320
	F016	FLOM CORP.	51430	0512	5/19	660.89	37,765
	F016	FLOM CORP.	51530	0533	5/26	767.55	43,860
	F016	FLOM CORP.	51592	0543	6/02	634.80	42,320
	F034	FINELINE FREIGHTWAYS, INC.	13420	0511	5/12	256.80	
	G036	GREAT LAKES PAPER STOCK CORP.	95212	0503	5/05	1,060.68	44,660
	G036	GREAT LAKES PAPER STOCK CORP.	95213	0503	5/12	822.80	41,140
	G036	GREAT LAKES PAPER STOCK CORP.	95214	0503	5/12	901.20	45,060
	G036	GREAT LAKES PAPER STOCK CORP.	95240	0503	5/19	890.40	44,520
	G036	GREAT LAKES PAPER STOCK CORP.	95342	0509	5/12	766.40	38,320
	G036	GREAT LAKES PAPER STOCK CORP.	95343	0509	5/19	835.20	41,760
	G036	GREAT LAKES PAPER STOCK CORP.	95344	0509	5/19	932.00	46,600
	G036	GREAT LAKES PAPER STOCK CORP.	95414	0508	5/19	832.80	41,640
	G036	GREAT LAKES PAPER STOCK CORP.	95416	0508	5/19	840.80	42,040
	G036	GREAT LAKES PAPER STOCK CORP.	95425	0508	5/12	878.40	43,920
	G036	GREAT LAKES PAPER STOCK CORP.	95453	0512	5/19	972.80	40,960
	G036	GREAT LAKES PAPER STOCK CORP.	95454	0512	5/26	956.65	40,280
	G036	GREAT LAKES PAPER STOCK CORP.	95455	0512	5/26	893.60	44,680
	G036	GREAT LAKES PAPER STOCK CORP.	95529	0523	5/26	855.20	42,760
	G036	GREAT LAKES PAPER STOCK CORP.	95342	0525	5/19	104.40	
	G036	GREAT LAKES PAPER STOCK CORP.	95582	0533	6/02	848.80	42,440
	G036	GREAT LAKES PAPER STOCK CORP.	95583	0533	6/02	782.60	44,720
	G036	GREAT LAKES PAPER STOCK CORP.	95732	0543	6/02	883.20	44,160
	G036	GREAT LAKES PAPER STOCK CORP.	95733	0543	6/02	1,037.00	49,800
	G036	GREAT LAKES PAPER STOCK CORP.	95734	0543	6/02	794.50	45,400
	G036	GREAT LAKES PAPER STOCK CORP.	95735	0543	6/09	782.60	44,720
	G036	GREAT LAKES PAPER STOCK CORP.	95736	0543	6/09	783.65	44,780
	G036	GREAT LAKES PAPER STOCK CORP.	95942	0543	6/09	769.65	43,980

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MICHIGAN PAPERBOARD CORPORATION
ACCOUNTS PAYABLE DISTRIBUTION 5/31/89

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NT MBER	VENDOR NO.	NAME	INVOICE NUMBER	BATCH NO.	DUE DATE	NET AMOUNT	RAW MATL POUNDS	
	G036	GREAT LAKES PAPER STOCK CORP.	95941	0543	6/09	737.45	42,140	
	G073	GENERAL MILL SUPPLY CO.	84745	0516	5/26	872.40	43,620	
	G073	GENERAL MILL SUPPLY CO.	84998	0523	5/26	800.10	40,005	
	G073	GENERAL MILL SUPPLY CO.	85108	0533	6/02	852.40	42,620	
	M028	METRO FIBRES, INC.	51150	0543	6/09	887.83	41,780	
	M137	MEDINA PAPER RECYCLING, INC.	12193	0503	5/26	1,101.98	41,980	
	M137	MEDINA PAPER RECYCLING, INC.	12612	0523	6/09	1,023.15	43,080	
	M137	MEDINA PAPER RECYCLING, INC.	12661	0543	6/16	954.75	40,200	
	M137	MEDINA PAPER RECYCLING, INC.	12505	0543	6/16	991.20	37,760	
	M137	MEDINA PAPER RECYCLING, INC.	12677	0543	6/16	1,058.78	44,580	
	M137	MEDINA PAPER RECYCLING, INC.	12680	0543	6/23	982.30	41,360	
	M137	MEDINA PAPER RECYCLING, INC.	12642	0543	6/23	1,066.85	44,920	
	R011	ROYAL PAPER STOCK CO., INC.	69808	0508	5/19	852.40	42,620	
	R052	RIVER VALLEY PAPER COMPANY	9156	0512	5/26	772.10	44,120	
	R052	RIVER VALLEY PAPER COMPANY	9173	0512	5/26	771.75	44,100	
	R060	ROYAL PAPER STOCK COMPANY, INC	70120	0543	6/02	630.00	42,000	
	R098	RITE TRANSPORTATION SYSTEM	103811	0504	5/05	220.00		
	R098	RITE TRANSPORTATION SYSTEM	103688	0511	5/12	220.00		
	R129	ROYAL OAK	6880	0503	5/05	920.80	46,040	
	R129	ROYAL OAK	6884	0503	5/05	862.00	43,100	
	R129	ROYAL OAK	6881	0503	5/05	872.40	43,620	
	R129	ROYAL OAK	6904	0508	5/12	882.80	44,140	
	R129	ROYAL OAK	6892	0510	5/09	910.00	45,500	
	R129	ROYAL OAK	6893	0510	5/09	922.40	46,120	
	R129	ROYAL OAK	6890	0510	5/09	892.00	44,600	
	R129	ROYAL OAK	6891	0510	5/09	905.20	45,260	
	R129	ROYAL OAK	6905	0531	5/19	822.15	46,980	
	R129	ROYAL OAK	6907	0531	5/19	770.70	44,040	
	R129	ROYAL OAK	6906	0531	5/19	897.40	51,280	
	R129	ROYAL OAK	6897	0531	5/19	814.80	40,740	
	R129	ROYAL OAK	6898	0531	5/19	759.53	43,840	
	R129	ROYAL OAK	6916	0538	5/26	827.75	47,300	
	R129	ROYAL OAK	6917	0538	5/26	821.80	46,960	
	S091	STATE PAPER & METAL CO., INC.	0308	0503	5/19	784.35	44,820	
	S091	STATE PAPER & METAL CO., INC.	380	0531	6/02	822.00	54,800	
	S091	STATE PAPER & METAL CO., INC.	0456	0543	6/09	858.00	57,200	
		NEWS		ACCOUNT TOTAL		70,131.65	2,994,530 ***	1-1506-01
07-01								
	A022	ALOHA TRANSPORTATION CO.	6844	0504	5/05	288.40		
	A022	ALOHA TRANSPORTATION CO.	6889	0504	5/05	260.00		
	A022	ALOHA TRANSPORTATION CO.	6878	0504	5/05	662.40		
	A022	ALOHA TRANSPORTATION CO.	6931	0511	5/12	145.00		
	A022	ALOHA TRANSPORTATION CO.	6743	0515	5/12	260.00		
	A022	ALOHA TRANSPORTATION CO.	6934	0515	5/12	260.00		
	A022	ALOHA TRANSPORTATION CO.	6970	0528	5/19	200.00		
	A022	ALOHA TRANSPORTATION CO.	6967	0528	5/19	260.00		
	A022	ALOHA TRANSPORTATION CO.	6990	0528	5/19	260.00		
	A022	ALOHA TRANSPORTATION CO.	6964	0528	5/19	210.06		
	A022	ALOHA TRANSPORTATION CO.	6951	0540	5/26	144.17		
	A022	ALOHA TRANSPORTATION CO.	6995	0540	5/26	260.00		
	A022	ALOHA TRANSPORTATION CO.	7058	0540	5/26	260.00		
	A022	ALOHA TRANSPORTATION CO.	7053	0540	5/26	260.00		
	A022	ALOHA TRANSPORTATION CO.	7062	0540	5/26	385.20		
	A022	ALOHA TRANSPORTATION CO.	7038	0540	5/26	385.20		
	A073	ATLAS RECYCLING INC.	14277	0509	5/12	882.45	39,220	
	A073	ATLAS RECYCLING INC.	14416	0516	5/19	892.46	39,665	
	A120	ALTL INC.	85586	0502	5/05	39.00		
	B035	BEHNKE, INC.	32257	0504	5/05	186.44		
	B035	BEHNKE, INC.	32148	0504	5/05	132.00		
	B035	BEHNKE, INC.	32297	0511	5/12	298.24		
	B035	BEHNKE, INC.	32400	0511	5/12	309.61		
	B035	BEHNKE, INC.	32379	0519	5/12	190.50		
	B035	BEHNKE, INC.	32784	0519	5/12	148.04		
	B035	BEHNKE, INC.	32396	0515	5/12	260.00		
	B035	BEHNKE, INC.	32510	0515	5/12	250.00		
	B035	BEHNKE, INC.	32850	0528	5/19	200.00		
	B035	BEHNKE, INC.	32979	0528	5/19	260.00		
	B035	BEHNKE, INC.	33141	0528	5/19	260.00		
	B035	BEHNKE, INC.	33050	0528	5/19	244.80		
	B035	BEHNKE, INC.	33242	0540	5/26	260.00		
	B035	BEHNKE, INC.	33244	0540	5/26	260.00		
	C070	CONTINENTAL PAPER GRADING CO.	66455	0531	5/19	1,360.50	36,280	

MICHIGAN PAPERBOARD CORPORATION
ACCOUNTS PAYABLE DISTRIBUTION 5/31/89

T BER	VENDOR NO.	NAME	INVOICE NUMBER	BATCH NO.	DUE DATE	NET AMOUNT	RAW MATL POUNDS	
	C088	CEREAL CITY RECYCLING	2483	0503	5/26	968.50	38,600	
	C145	COLUMBIA PAPER CORPORATION	42635	0523	5/26	723.78	44,540	
	C145	COLUMBIA PAPER CORPORATION	42639	0523	5/26	747.83	46,020	
	C145	COLUMBIA PAPER CORPORATION	42637	0523	5/26	746.53	45,940	
	C145	COLUMBIA PAPER CORPORATION	42636	0523	5/26	750.10	46,160	
	D042	DONCO PAPER SUPPLY COMPANY	85780	0503	5/19	934.65	41,540	
	D042	DONCO PAPER SUPPLY COMPANY	86040	0533	6/09	778.95	34,620	
	E071	EVANGELIST COMMERCIAL CORP.	44541	0515	5/12	110.34		
	F032	FOX MIDWEST TRANSPORT, INC	71879	0515	5/12	202.30		
	F062	FIELD CONTAINER CORPORATION	65116	0508	5/12	858.82	38,120	
	F062	FIELD CONTAINER CORPORATION	65115	0508	5/12	979.20	43,520	
	F062	FIELD CONTAINER CORPORATION	65419	0508	5/12	1,006.87	44,700	
	F062	FIELD CONTAINER CORPORATION	65420	0516	5/19	848.02	37,840	
	F062	FIELD CONTAINER CORPORATION	65417	0531	5/19	377.10	16,760	
	F062	FIELD CONTAINER CORPORATION	66208	0538	5/26	1,070.55	47,580	
	F062	FIELD CONTAINER CORPORATION	66367	0538	5/26	1,112.85	49,460	
	F062	FIELD CONTAINER CORPORATION	66368	0538	5/26	1,003.05	44,580	
	F062	FIELD CONTAINER CORPORATION	66203	0538	5/26	849.60	37,760	
	F062	FIELD CONTAINER CORPORATION	66207	0538	5/26	1,009.80	44,880	
	F062	FIELD CONTAINER CORPORATION	66210	0538	5/26	969.30	43,080	
	F062	FIELD CONTAINER CORPORATION	66209	0538	5/26	950.40	42,320	
	F062	FIELD CONTAINER CORPORATION	66366	0538	5/26	1,008.67	44,740	
	G014	GENERAL FOODS CORPORATION	11819	0503	5/26	386.00	19,300	
	G014	GENERAL FOODS CORPORATION	11817	0503	5/26	556.00	27,800	
	G014	GENERAL FOODS CORPORATION	11818	0503	5/26	374.00	18,700	
	G014	GENERAL FOODS CORPORATION	12421	0508	5/26	616.40	30,820	
	G014	GENERAL FOODS CORPORATION	13226	0533	6/16	553.20	27,660	
	G014	GENERAL FOODS CORPORATION	13228	0533	6/16	337.20	16,860	
	G014	GENERAL FOODS CORPORATION	13227	0533	6/16	544.00	27,200	
	G026	GEMINI TRANSPORTATION SRV INC	G395003	0515	5/12	634.80		
	G036	GREAT LAKES PAPER STOCK CORP.	95345	0509	5/19	756.00	33,600	
	J036	JAY-BEE CARTAGE CO.	238135	0515	5/12	579.60		
	R011	ROYAL PAPER STOCK CO., INC.	69809	0508	5/19	943.20	41,920	
	R011	ROYAL PAPER STOCK CO., INC.	69993	0533	6/02	1,029.15	45,740	
	R052	RIVER VALLEY PAPER COMPANY	8504	0503	5/26	1,477.02	39,640	
	R052	RIVER VALLEY PAPER COMPANY	9167	0512	5/26	911.63	33,150	
	R052	RIVER VALLEY PAPER COMPANY	8946	0516	5/26	854.55	37,980	
	R052	RIVER VALLEY PAPER COMPANY	9195	0543	6/16	1,256.85	29,340	
	R060	ROYAL PAPER STOCK COMPANY, INC	70295	0543	6/09	963.45	42,820	
	W025	WILMINGTON PAPER CORP.	16778	0503	5/12	795.36	33,140	
	W025	WILMINGTON PAPER CORP.	16936	0512	5/26	1,055.93	44,460	
	W025	WILMINGTON PAPER CORP.	16949	0512	5/12	554.56	23,350	
	W025	WILMINGTON PAPER CORP.	16867	0531	5/19	489.85	20,620	
	W025	WILMINGTON PAPER CORP.	16974	0533	6/02	843.25	35,505	
		BX BD CUTTS		ACCOUNT TOTAL		45,453.68	1,577,530 ***	1-1507-01
-01								
	F016	FLOM CORP.	51430	0512	5/19	74.94	5,995	
	G073	GENERAL MILL SUPPLY CO.	84935	0509	5/12	697.80	46,520	
	G073	GENERAL MILL SUPPLY CO.	84998	0523	5/26	23.03	1,535	
		SECTIONS		ACCOUNT TOTAL.		795.77	54,050 ***	1-1508-01
-01								
	A022	ALOHA TRANSPORTATION CO.	6825	0504	5/05	256.80		
	A022	ALOHA TRANSPORTATION CO.	6900	0511	5/12	230.33		
	A022	ALOHA TRANSPORTATION CO.	6978	0528	5/19	82.22		
	A022	ALOHA TRANSPORTATION CO.	7075	0540	5/26	154.75		
	B035	BEHNKE, INC.	32669	0515	5/12	250.80		
	B035	BEHNKE, INC.	32668	0515	5/12	250.80		
	B035	BEHNKE, INC.	33049	0528	5/19	250.80		
	B035	BEHNKE, INC.	33363	0540	5/26	256.80		
	B035	BEHNKE, INC.	33528	0540	5/26	43.05		
	C070	CONTINENTAL PAPER GRADING CO.	65911	0503	5/05	4,136.90	41,180	
	C070	CONTINENTAL PAPER GRADING CO.	66113	0509	5/12	4,189.60	41,780	
	C070	CONTINENTAL PAPER GRADING CO.	66304	0512	5/12	4,533.90	43,180	
	C070	CONTINENTAL PAPER GRADING CO.	66302	0512	5/12	4,447.80	42,360	
	C070	CONTINENTAL PAPER GRADING CO.	66305	0516	5/12	4,198.01	39,920	
	C070	CONTINENTAL PAPER GRADING CO.	66307	0516	5/12	4,634.70	41,400	
	C070	CONTINENTAL PAPER GRADING CO.	66529	0523	5/19	4,605.72	43,900	
	C070	CONTINENTAL PAPER GRADING CO.	66728	0531	5/19	4,511.85	43,040	
	C070	CONTINENTAL PAPER GRADING CO.	66303	0531	5/19	4,427.85	42,560	

MICHIGAN PAPERBOARD CORPORATION
ACCOUNTS PAYABLE DISTRIBUTION 5/31/89

T BER	VENDOR NO.	NAME	INVOICE NUMBER	BATCH NO.	DUE DATE	NET AMOUNT	RAW MATL POUNDS	
	C070	CONTINENTAL PAPER GRADING CO.	66605	0531	5/19	4,252.08		
	C070	CONTINENTAL PAPER GRADING CO.	66606	0531	5/19	4,418.82		
	C070	CONTINENTAL PAPER GRADING CO.	66884	0538	5/26	4,296.60	40,920	
	C070	CONTINENTAL PAPER GRADING CO.	66794	0538	5/26	4,307.52	41,360	
	C070	CONTINENTAL PAPER GRADING CO.	66883	0538	5/26	3,158.19	30,200	
	C070	CONTINENTAL PAPER GRADING CO.	66885	0538	5/26	4,439.61	42,180	
	E071	EVANGELIST COMMERCIAL CORP.	44478	0518	5/12	260.00		
	E071	EVANGELIST COMMERCIAL CORP.	44520	0515	5/12	260.00		
	E071	EVANGELIST COMMERCIAL CORP.	44542	0515	5/12	260.00		
	E071	EVANGELIST COMMERCIAL CORP.	44533	0515	5/12	260.00		
	E071	EVANGELIST COMMERCIAL CORP.	44550	0515	5/12	260.00		
	E071	EVANGELIST COMMERCIAL CORP.	44593	0540	5/26	260.00		
	E071	EVANGELIST COMMERCIAL CORP.	44595	0540	5/26	260.00		
	F034	FINELINE FREIGHTWAYS, INC.	13345	0504	5/05	198.42		
	F034	FINELINE FREIGHTWAYS, INC.	13434	0528	5/19	218.41		
	F034	FINELINE FREIGHTWAYS, INC.	13514	0528	5/19	256.80		
	F034	FINELINE FREIGHTWAYS, INC.	13608	0528	5/19	256.80		
	G036	GREAT LAKES PAPER STOCK CORP.	95940	0543	6/09	1,739.45	18,310	
	J033	JUNCTION-MCGREGOR CO.	1029	0508	5/12	4,064.10	42,780	
	M137	MEDINA PAPER RECYCLING, INC.	12401	0503	5/26	4,292.00	42,920	
	M137	MEDINA PAPER RECYCLING, INC.	12488	0508	6/02	2,993.50	29,935	
	M137	MEDINA PAPER RECYCLING, INC.	12517	0508	6/02	3,307.00	33,070	
	M137	MEDINA PAPER RECYCLING, INC.	12485	0508	6/02	4,446.00	44,460	
	M137	MEDINA PAPER RECYCLING, INC.	12573	0516	6/02	3,884.00	38,840	
	M137	MEDINA PAPER RECYCLING, INC.	17141	0516	6/02	956.00	9,560	
	M137	MEDINA PAPER RECYCLING, INC.	12588	0523	6/09	3,624.00	36,240	
	M137	MEDINA PAPER RECYCLING, INC.	12702	0543	6/16	4,179.00	41,790	
	M137	MEDINA PAPER RECYCLING, INC.	12728	0543	6/16	4,200.00	42,000	
	M137	MEDINA PAPER RECYCLING, INC.	12640	0543	6/16	3,415.50	34,155	
		MANIFOLD WHITE LEDGER		ACCOUNT TOTAL		110,186.48	948,040 ***	1-1509-01
-01								
	B035	BEHNKE, INC.	31272	0511	5/12	260.00		
	B035	BEHNKE, INC.	30959	0526	5/19	275.00		
	K033	KENTUCKY WESTERN TRUCK LINE	25316	0526	5/19	593.18		
	R011	ROYAL PAPER STOCK CO., INC.	69609	0503	5/05	7,181.60	30,560	
	W025	WILMINGTON PAPER CORP.	16794	0509	5/12	484.00	2,200	
		BLEA KR CUTTS		ACCOUNT TOTAL		8,793.78	32,760 ***	1-1510-01
-01								
	A022	ALOHA TRANSPORTATION CO.	6841	0504	5/05	256.80		
	A022	ALOHA TRANSPORTATION CO.	6891	0504	5/05	200.00		
	A022	ALOHA TRANSPORTATION CO.	6828	0504	5/05	260.00		
	A022	ALOHA TRANSPORTATION CO.	6826	0504	5/05	260.00		
	A022	ALOHA TRANSPORTATION CO.	6915	0511	5/12	200.00		
	A022	ALOHA TRANSPORTATION CO.	6897	0511	5/12	256.80		
	A022	ALOHA TRANSPORTATION CO.	6900	0511	5/12	26.47		
	A022	ALOHA TRANSPORTATION CO.	6872	0511	5/12	260.00		
	A022	ALOHA TRANSPORTATION CO.	6763	0511	5/12	342.95		
	A022	ALOHA TRANSPORTATION CO.	6795	0515	5/12	260.00		
	A022	ALOHA TRANSPORTATION CO.	6907	0515	5/12	256.80		
	A022	ALOHA TRANSPORTATION CO.	6950	0515	5/12	260.00		
	A022	ALOHA TRANSPORTATION CO.	6927	0515	5/12	260.00		
	A022	ALOHA TRANSPORTATION CO.	6978	0528	5/19	117.78		
	A022	ALOHA TRANSPORTATION CO.	7004	0540	5/26	200.00		
	A022	ALOHA TRANSPORTATION CO.	7075	0540	5/26	102.05		
	A022	ALOHA TRANSPORTATION CO.	7050	0540	5/26	256.80		
	B035	BEHNKE, INC.	32110	0504	5/05	260.00		
	B035	BEHNKE, INC.	29253	0511	5/12	260.00		
	B035	BEHNKE, INC.	32857	0519	5/12	256.80		
	B035	BEHNKE, INC.	29028	0526	5/19	260.00		
	B035	BEHNKE, INC.	32984	0528	5/19	260.00		
	B035	BEHNKE, INC.	33192	0528	5/19	220.00		
	B035	BEHNKE, INC.	33214	0528	5/19	256.80		
	B035	BEHNKE, INC.	33211	0540	5/26	256.80		
	B035	BEHNKE, INC.	33462	0540	5/26	200.00		
	C145	COLUMBIA PAPER CORPORATION	42551	0516	5/26	1,006.53	42,380	
	C145	COLUMBIA PAPER CORPORATION	42681	0523	5/26	1,035.50	43,600	
	C145	COLUMBIA PAPER CORPORATION	42650	0523	5/26	1,053.55	44,360	
	C145	COLUMBIA PAPER CORPORATION	00042702	0533	6/02	1,075.88	45,300	
	C145	COLUMBIA PAPER CORPORATION	00042833	0543	6/09	563.98	26,540	

MICHIGAN PAPERBOARD CORPORATION
ACCOUNTS PAYABLE DISTRIBUTION 5/31/89

C BER	VENDOR NO.	NAME	INVOICE NUMBER	BATCH NO.	DUE DATE	NET AMOUNT	RAW MATL POUNDS	
	C145	COLUMBIA PAPER CORPORATION	00042832	0543	6/09	932.45	43,880	
	E071	EVANGELIST COMMERCIAL CORP.	44534	0515	5/12	260.00		
	F034	FINELINE FREIGHTWAYS, INC.	13345	0504	5/05	58.38		
	F034	FINELINE FREIGHTWAYS, INC.	13434	0528	5/19	38.39		
	G036	GREAT LAKES PAPER STOCK CORP.	95452	0512	5/19	1,034.55	43,560	
	G036	GREAT LAKES PAPER STOCK CORP.	95967	0543	6/16	883.15	41,560	
	G036	GREAT LAKES PAPER STOCK CORP.	95940	0543	6/09	557.39	26,230	
	M028	METRO FIBRES, INC.	41718	0503	5/19	1,013.65	42,680	
	M028	METRO FIBRES, INC.	42749	0512	5/26	1,008.43	42,460	
	M028	METRO FIBRES, INC.	50201	0533	6/02	938.83	44,180	
	M028	METRO FIBRES, INC.	51174	0543	6/09	898.03	42,260	
	M137	MEDINA PAPER RECYCLING, INC.	12386	0503	5/26	1,103.03	42,020	
	M137	MEDINA PAPER RECYCLING, INC.	12488	0508	6/02	279.96	10,665	
	M137	MEDINA PAPER RECYCLING, INC.	12517	0508	6/02	246.49	9,390	
	M137	MEDINA PAPER RECYCLING, INC.	12249	0508	6/02	969.15	36,920	
	M137	MEDINA PAPER RECYCLING, INC.	12211	0508	6/02	1,032.68	39,340	
	M137	MEDINA PAPER RECYCLING, INC.	12477	0508	6/02	1,092.53	41,620	
	M137	MEDINA PAPER RECYCLING, INC.	12507	0512	6/02	1,049.48	39,980	
	M137	MEDINA PAPER RECYCLING, INC.	12101	0516	5/12	1,059.45	40,360	
	M137	MEDINA PAPER RECYCLING, INC.	12609	0523	6/09	894.43	37,660	
	M137	MEDINA PAPER RECYCLING, INC.	12588	0523	6/09	241.50	9,200	
	M137	MEDINA PAPER RECYCLING, INC.	12248	0531	5/26	994.88	37,900	
	M137	MEDINA PAPER RECYCLING, INC.	12118	0531	5/19	1,145.03	43,620	
	M137	MEDINA PAPER RECYCLING, INC.	12179	0531	5/19	1,052.63	40,100	
	M137	MEDINA PAPER RECYCLING, INC.	12585	0543	6/16	960.45	40,440	
	M137	MEDINA PAPER RECYCLING, INC.	12640	0543	6/16	142.62	6,005	
	M137	MEDINA PAPER RECYCLING, INC.	12650	0543	6/16	972.44	40,945	
	M137	MEDINA PAPER RECYCLING, INC.	12613	0543	6/16	964.25	40,600	
	M137	MEDINA PAPER RECYCLING, INC.	12733	0543	6/23	1,041.20	43,840	
	N048	NORTHWEST RECYCLING CENTER	2541	0516	5/19	1,336.69	50,970	
	N048	NORTHWEST RECYCLING CENTER	2541	0522	5/16	1,335.69	50,970	
	N048	NORTHWEST RECYCLING CENTER	2541	0525	5/19	1,336.69-		
	N048	NORTHWEST RECYCLING CENTER	2549-A	0541	5/26	1,226.92	43,440	
	N048	NORTHWEST RECYCLING CENTER	2549-B	0541	5/26	1,353.09	48,760	
	R011	ROYAL PAPER STOCK CO., INC.	69611	0503	5/12	1,047.85	44,120	
	R011	ROYAL PAPER STOCK CO., INC.	69612	0509	5/19	1,049.28	44,180	
	R098	RITE TRANSPORTATION SYSTEM	103687	0504	5/05	200.00		
	R098	RITE TRANSPORTATION SYSTEM	106076	0540	5/26	200.00		
		NEWS- DE INK & OVERISSUE ACCOUNT TOTAL				40,020.57	1,412,035 ***	1-1511-01
-01	A022	ALOHA TRANSPORTATION CO.	6877	0504	5/05	279.60		
	A022	ALOHA TRANSPORTATION CO.	6851	0504	5/05	150.00		
	A022	ALOHA TRANSPORTATION CO.	6849	0504	5/05	131.14		
	A022	ALOHA TRANSPORTATION CO.	6895	0511	5/12	260.00		
	A022	ALOHA TRANSPORTATION CO.	7067	0540	5/26	56.32		
	A073	ATLAS RECYCLING INC.	014435	0533	5/26	2,033.50	16,600	
	B035	BEHNKE, INC.	32394	0511	5/12	260.00		
	B035	BEHNKE, INC.	31273	0511	5/12	260.00		
	B035	BEHNKE, INC.	32792	0519	5/12	260.00		
	B035	BEHNKE, INC.	32795	0528	5/19	260.00		
	C088	CEREAL CITY RECYCLING	2500	0525	5/19	106.72		
	D042	DONCO PAPER SUPPLY COMPANY	85873	0508	5/19	5,077.05	39,820	
	D042	DONCO PAPER SUPPLY COMPANY	85849	0531	5/19	4,309.50	33,800	
	D042	DONCO PAPER SUPPLY COMPANY	85911	0531	5/26	6,121.50	44,520	
	F034	FINELINE FREIGHTWAYS, INC.	13619	0540	5/26	260.00		
	F062	FIELD CONTAINER CORPORATION	65425	0508	5/12	5,092.20	44,280	
	F062	FIELD CONTAINER CORPORATION	65424	0516	5/19	4,841.50	42,100	
	F062	FIELD CONTAINER CORPORATION	65426	0518	5/12	3,721.40	32,360	
	F062	FIELD CONTAINER CORPORATION	66223	0538	5/26	4,368.85	37,990	
	G026	GEMINI TRANSPORTATION SRV INC	G395005	0515	5/12	235.00		
	J036	JAY-BEE CARTAGE CO.	238872	0528	5/19	491.40		
	K033	KENTUCKY WESTERN TRUCK LINE	26025	0528	5/19	347.67		
	R052	RIVER VALLEY PAPER COMPANY	9136	0512	5/19	5,702.27	43,036	
	R052	RIVER VALLEY PAPER COMPANY	9169	0543	6/02	5,896.25	44,500	
	W025	WILMINGTON PAPER CORP.	16794	0509	5/12	4,933.74	38,695	
	W025	WILMINGTON PAPER CORP.	16912	0512	5/19	3,789.30	29,720	
		LIGHT PRINTED BLEACHED ACCOUNT TOTAL				59,244.91	447,421 ***	1-1512-01
-01	A022	ALOHA TRANSPORTATION CO.	6849	0504	5/05	68.86		

: JS
T.A.T. M.H.K. J.A.K.

MICHIGAN PAPERBOARD CORPORATION
ACCOUNTS PAYABLE DISTRIBUTION 5/31/89

IT BER	VENDOR NO.	NAME	INVOICE NUMBER	BATCH NO.	DUE DATE	NET AMOUNT	RAW MATL POUNDS	
	A022	ALOHA TRANSPORTATION CO.	6845	0504	5/05	633.00		
	A022	ALOHA TRANSPORTATION CO.	6953	0528	5/19	260.00		
	A022	ALOHA TRANSPORTATION CO.	6951	0540	5/26	55.83		
	A073	ATLAS RECYCLING INC.	014435	0533	5/26	626.40	8,640	
	B035	BEHNKE, INC.	32784	0519	5/12	39.18		
	B035	BEHNKE, INC.	32794	0519	5/12	260.00		
	B035	BEHNKE, INC.	32817	0519	5/12	150.00		
	B035	BEHNKE, INC.	32395	0515	5/12	260.00		
	B035	BEHNKE, INC.	32389	0515	5/12	260.00		
	B035	BEHNKE, INC.	32699	0515	5/12	273.60		
	C088	CEREAL CITY RECYCLING	2500	0525	5/19	75.37		
	C088	CEREAL CITY RECYCLING	2507	0533	6/09	3,506.20	48,660	
	D001	DEJNO'S TRUCKING	2939	0528	5/19	285.00		
	D001	DEJNO'S TRUCKING	3014	0528	5/19	285.00		
	D042	DONCO PAPER SUPPLY COMPANY	86083	0538	6/09	3,521.10	42,680	
	F062	FIELD CONTAINER CORPORATION	65421	0516	5/19	2,983.40	42,620	
	F062	FIELD CONTAINER CORPORATION	65423	0531	5/19	2,737.00	39,100	
	F062	FIELD CONTAINER CORPORATION	66221	0538	5/26	3,012.80	43,040	
	F062	FIELD CONTAINER CORPORATION	66211	0538	5/26	2,989.70	42,440	
	K033	KENTUCKY WESTERN TRUCK LINE	26025	0528	5/19	245.51		
	M194	MILLER TRANSPORTATION	M66443	0515	5/12	662.00		
	M194	MILLER TRANSPORTATION	66808	0540	5/26	367.20		
	P004	LOUIS PADNOS IRON & METAL CO.	369296	0533	6/02	2,900.00	40,000	
	R052	RIVER VALLEY PAPER COMPANY	9005	0533	6/09	2,968.25	38,300	
	S073	SCHIRMER PAPER CORPORATION	15634	0503	5/26	3,303.10	45,740	
		PRTD BL KRAFT #2		ACCOUNT TOTAL		32,728.50	391,220 ***	1-1514-01
-01								
	A022	ALOHA TRANSPORTATION CO.	6981	0540	5/26	662.40		
	A022	ALOHA TRANSPORTATION CO.	6960	0540	5/26	244.80		
	A064	ALLIED VISTA INC.	97873D8	0503	5/19	9,533.25	40,140	
	B035	BEHNKE, INC.	33216	0540	5/26	285.60		
	B035	BEHNKE, INC.	33224	0540	5/26	271.20		
	G026	GEMINI TRANSPORTATION SRV INC	G-399232	0540	5/26	235.00		
	J014	J & M FIBERS, INC.	16899	0543	6/02	10,402.70	42,460	
	N031	NORTH AMERICAN PAPER CO.	4598	0516	5/26	10,267.52	42,080	
	R011	ROYAL PAPER STOCK CO., INC.	69610	0503	5/05	8,369.50	35,240	
	R060	ROYAL PAPER STOCK COMPANY, INC	70294	0543	6/09	9,120.00	38,400	
	R060	ROYAL PAPER STOCK COMPANY, INC	70468	0543	6/09	10,485.70	43,240	
		HD WH ENV CTY		ACCOUNT TOTAL		59,877.67	241,560 ***	1-1515-01
-01								
	A022	ALOHA TRANSPORTATION CO.	6816	0504	5/05	256.80		
	A022	ALOHA TRANSPORTATION CO.	6879	0504	5/05	200.00		
	A022	ALOHA TRANSPORTATION CO.	6870	0504	5/05	200.00		
	A022	ALOHA TRANSPORTATION CO.	6862	0504	5/05	200.00		
	A022	ALOHA TRANSPORTATION CO.	6932	0511	5/12	200.00		
	A022	ALOHA TRANSPORTATION CO.	6919	0511	5/12	200.00		
	A022	ALOHA TRANSPORTATION CO.	6749	0518	5/12	200.00		
	A022	ALOHA TRANSPORTATION CO.	6916	0515	5/12	200.00		
	A022	ALOHA TRANSPORTATION CO.	6987	0528	5/19	200.00		
	A022	ALOHA TRANSPORTATION CO.	6985	0528	5/19	256.80		
	A022	ALOHA TRANSPORTATION CO.	7033	0540	5/26	200.00		
	A022	ALOHA TRANSPORTATION CO.	7073	0540	5/26	200.00		
	A022	ALOHA TRANSPORTATION CO.	7056	0540	5/26	200.00		
	B035	BEHNKE, INC.	32103	0504	5/05	250.00		
	B035	BEHNKE, INC.	32107	0504	5/05	200.00		
	B035	BEHNKE, INC.	32858	0519	5/12	256.80		
	B035	BEHNKE, INC.	32852	0519	5/12	200.00		
	B035	BEHNKE, INC.	32660	0515	5/12	175.00		
	B035	BEHNKE, INC.	32743	0515	5/12	160.00		
	B035	BEHNKE, INC.	24225	0526	5/19	195.00		
	B035	BEHNKE, INC.	32822	0528	5/19	145.00		
	B035	BEHNKE, INC.	33178	0528	5/19	145.00		
	B035	BEHNKE, INC.	32821	0528	5/19	145.00		
	B035	BEHNKE, INC.	33293	0540	5/26	145.00		
	B035	BEHNKE, INC.	33160	0540	5/26	145.00		
	B035	BEHNKE, INC.	33500	0540	5/26	145.00		
	B035	BEHNKE, INC.	33441	0540	5/26	145.00		
	C056	CENTRAL STATES FIBER CORP	29225	0512	5/19	1,173.00	31,280	
	C070	CONTINENTAL PAPER GRADING CO.	65887	0509	5/12	1,324.31	35,100	

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A.T. M.H.K. J.A.K.

MICHIGAN PAPERBOARD CORPORATION
ACCOUNTS PAYABLE DISTRIBUTION 5/31/89

R	VENDOR NO.	NAME	INVOICE NUMBER	BATCH NO.	DUE DATE	NET AMOUNT	RAW MATL POUNDS	
	C070	CONTINENTAL PAPER GRADING CO.	65902	0509	5/12	1,425.75	38,020	
	C070	CONTINENTAL PAPER GRADING CO.	65901	0509	5/12	1,297.13	34,360	
	C070	CONTINENTAL PAPER GRADING CO.	66276	0523	5/19	1,453.13	38,420	
	C070	CONTINENTAL PAPER GRADING CO.	66251	0531	5/19	1,495.69	39,560	
	C070	CONTINENTAL PAPER GRADING CO.	66456	0531	5/19	1,358.63	36,040	
	C070	CONTINENTAL PAPER GRADING CO.	66277	0531	5/19	1,429.31	37,920	
	C070	CONTINENTAL PAPER GRADING CO.	66739	0538	5/26	1,341.00	35,720	
	D042	DONCO PAPER SUPPLY COMPANY	85968	0538	6/02	665.00	19,000	
	E071	EVANGELIST COMMERCIAL CORP.	44521	0515	5/12	260.00		
	F034	FINELINE FREIGHTWAYS, INC.	13406	0511	5/12	256.80		
	G073	GENERAL HILL SUPPLY CO.	84860	0503	5/26	1,179.00	39,300	
	J036	JAY-BEE CARTAGE CO.	239309	0540	5/26	275.00		
	K018	KROWN TRANSPORTATION, INC.	10930	0504	5/05	215.00		
	K018	KROWN TRANSPORTATION, INC.	11027	0515	5/12	215.00		
	K018	KROWN TRANSPORTATION, INC.	11131	0528	5/19	215.00		
	K018	KROWN TRANSPORTATION, INC.	11111	0528	5/19	215.00		
	K018	KROWN TRANSPORTATION, INC.	11120	0528	5/19	215.00		
	M028	METRO FIBRES, INC.	41817	0503	5/19	1,418.25	37,820	
	M028	METRO FIBRES, INC.	41916	0503	5/19	1,376.25	36,700	
	M028	METRO FIBRES, INC.	42750	0512	5/26	1,150.50	30,680	
	M137	MEDINA PAPER RECYCLING, INC.	12368	0508	6/02	2,229.50	44,590	
	M137	MEDINA PAPER RECYCLING, INC.	17425	0512	6/02	1,147.50	30,600	
	M137	MEDINA PAPER RECYCLING, INC.	12572	0516	6/02	2,283.00	45,660	
	M137	MEDINA PAPER RECYCLING, INC.	17430	0523	6/09	1,104.75	29,460	
	M137	MEDINA PAPER RECYCLING, INC.	12611	0523	6/09	2,390.00	47,800	
	M137	MEDINA PAPER RECYCLING, INC.	12701	0543	6/16	2,019.00	40,380	
	M137	MEDINA PAPER RECYCLING, INC.	12653	0543	6/16	2,391.00	47,820	
	N070	NATIONAL FIBER SUPPLY CO.	23643	0503	5/19	1,659.00	44,240	
	N070	NATIONAL FIBER SUPPLY CO.	23870	0503	5/19	1,601.25	42,700	
	N070	NATIONAL FIBER SUPPLY CO.	23953	0512	5/19	1,673.25	44,620	
	N070	NATIONAL FIBER SUPPLY CO.	24118	0523	6/02	1,754.25	46,640	
	N070	NATIONAL FIBER SUPPLY CO.	23854	0531	5/19	1,698.75	45,300	
	N070	NATIONAL FIBER SUPPLY CO.	24144	0531	5/26	1,566.75	41,780	
	N070	NATIONAL FIBER SUPPLY CO.	23954	0531	5/26	1,711.50	45,640	
	N070	NATIONAL FIBER SUPPLY CO.	24376	0543	6/02	1,692.00	45,120	
	P004	LOUIS PADNOS IRON & METAL CO.	368590	0503	5/19	790.50	21,080	
	P004	LOUIS PADNOS IRON & METAL CO.	368822	0509	5/19	1,485.00	39,600	
	P004	LOUIS PADNOS IRON & METAL CO.	368824	0509	5/19	1,050.75	28,020	
	P004	LOUIS PADNOS IRON & METAL CO.	368977	0512	5/26	1,109.80	28,640	
	P004	LOUIS PADNOS IRON & METAL CO.	369295	0533	6/09	1,314.75	35,060	
	P004	LOUIS PADNOS IRON & METAL CO.	369288	0533	6/02	1,643.44	43,825	
	P004	LOUIS PADNOS IRON & METAL CO.	369587	0543	6/09	1,018.50	27,160	
	P004	LOUIS PADNOS IRON & METAL CO.	369737	0543	6/02	1,324.50	35,320	
	P004	LOUIS PADNOS IRON & METAL CO.	369735	0543	6/16	1,556.25	41,500	
	R011	ROYAL PAPER STOCK CO., INC.	69921	0516	5/19	1,335.75	35,620	
	R098	RITE TRANSPORTATION SYSTEM	104371	0511	5/12	115.00		
	R098	RITE TRANSPORTATION SYSTEM	104241	0511	5/12	195.00		
	R098	RITE TRANSPORTATION SYSTEM	104498	0528	5/19	145.00		
	S091	STATE PAPER & METAL CO., INC.	0309	0503	5/19	1,380.75	36,820	
	V002	VAN'S PAPER & BOARD SALES INC	4-7033	0531	5/19	748.50	19,960	
		DOUBLE-LINED KRAFT		ACCOUNT TOTAL		67,254.14	1,524,875 ***	1-1517-01
01								
	A022	ALOHA TRANSPORTATION CO.	6844	0504	5/05	121.05		
	A022	ALOHA TRANSPORTATION CO.	6964	0528	5/19	175.14		
	A022	ALOHA TRANSPORTATION CO.	7054	0540	5/26	385.20		
	A073	ATLAS RECYCLING INC.	14416	0516	5/19	52.99	2,355	
	B035	BEHNKE, INC.	32257	0504	5/05	13.56		
	B035	BEHNKE, INC.	32148	0504	5/05	128.00		
	B035	BEHNKE, INC.	32297	0511	5/12	61.76		
	B035	BEHNKE, INC.	32400	0511	5/12	50.39		
	B035	BEHNKE, INC.	32379	0519	5/12	9.50		
	B035	BEHNKE, INC.	32784	0519	5/12	72.78		
	E071	EVANGELIST COMMERCIAL CORP.	44541	0515	5/12	259.66		
	F032	FOX MIDWEST TRANSPORT, INC	71371	0511	5/12	789.00		
	F032	FOX MIDWEST TRANSPORT, INC	71879	0515	5/12	182.90		
	F062	FIELD CONTAINER CORPORATION	65418	0531	5/19	203.00		
	R052	RIVER VALLEY PAPER COMPANY	8505	0503	5/26	1,548.57	42,820	
	R052	RIVER VALLEY PAPER COMPANY	9167	0512	5/26	343.25	13,730	
	W025	WILMINGTON PAPER CORP.	16778	0503	5/12	205.94	9,020	
	W025	WILMINGTON PAPER CORP.	16949	0512	5/12	433.92	18,270	
	W025	WILMINGTON PAPER CORP.	16867	0531	5/19	497.68	20,960	
	W025	WILMINGTON PAPER CORP.	16974	0533	6/02	173.73	7,315	

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MICHIGAN PAPERBOARD CORPORATION
ACCOUNTS PAYABLE DISTRIBUTION 5/31/69

IT RER	VENDOR NO.	NAME	INVOICE NUMBER	BATCH NO.	DUE DATE	NET AMOUNT	RAW MATL POUNDS		
	W025	WILMINGTON PAPER CORP.	16988	0533	6/02	612.50	35,000		
		BOXBOARD, SKIDS		ACCOUNT TOTAL		6,320.52	149,470	***	1-1518-01
-01									
	H067	HENKEL PROCESS CHEMICALS, INC.	47103	0513	6/02	6,720.00			
		CLAY COATING CHEMICALS		ACCOUNT TOTAL		6,720.00		***	1-1522-01
-01									
	A022	ALOHA TRANSPORTATION CO.	7042	0536	5/26	110.00			
	B035	BEHNKE, INC.	29908	0515	5/12	425.00			
	H031	HERCULES INCORPORATED	299047	0507	5/26	2,312.68			
	H031	HERCULES INCORPORATED	301281	0524	6/02	3,817.37			
	H031	HERCULES INCORPORATED	305776	0545	6/16	3,448.37			
	H031	HERCULES INCORPORATED	308904	0547	6/23	11,402.24			
	H031	HERCULES INCORPORATED	307308	0547	6/16	2,060.20			
	H031	HERCULES INCORPORATED	308336	0547	6/23	2,660.21			
	P017	PENFORD PRODUCTS CO.	26346	0513	5/12	8,199.36			
	P017	PENFORD PRODUCTS CO.	00026807	0539	5/26	8,199.36			
		OTHER MACH. ROOM MAIL.		ACCOUNT TOTAL		42,634.79		***	1-1523-01
-01									
	G031	GRAND TRUNK WESTERN R. R. CO.	882493	0502	5/05	3,709.56			
	G031	GRAND TRUNK WESTERN R. R. CO.	868682	0502	5/05	3,679.92			
	G031	GRAND TRUNK WESTERN R. R. CO.	877791	0502	5/05	3,763.26			
	G031	GRAND TRUNK WESTERN R. R. CO.	887184	0514	5/12	3,781.78			
	G031	GRAND TRUNK WESTERN R. R. CO.	889426	0517	5/12	3,650.29			
	G031	GRAND TRUNK WESTERN R. R. CO.	891396	0527	5/19	3,776.23			
	G031	GRAND TRUNK WESTERN R. R. CO.	893624	0529	5/19	3,737.34			
	G031	GRAND TRUNK WESTERN R. R. CO.	895407	0535	5/26	3,661.40			
	G031	GRAND TRUNK WESTERN R. R. CO.	897718	0539	5/26	3,766.97			
	H022	J. M. HUBER CORPORATION	H-404725	0502	5/05	6,333.60			
	H022	J. M. HUBER CORPORATION	H-404729	0502	5/05	6,495.58			
	H022	J. M. HUBER CORPORATION	H-407046	0514	5/26	6,508.32			
	H022	J. M. HUBER CORPORATION	H-404730	0514	5/19	6,479.20			
	H022	J. M. HUBER CORPORATION	H-407045	0518	5/19	6,380.01			
	H022	J. M. HUBER CORPORATION	H-404728	0527	5/19	6,328.14			
	H022	J. M. HUBER CORPORATION	H-407932	0529	6/02	6,504.68			
	H022	J. M. HUBER CORPORATION	H-407931	0537	5/26	6,325.41			
	H022	J. M. HUBER CORPORATION	H-407933	0545	6/02	6,446.44			
	H022	J. M. HUBER CORPORATION	H-407934	0547	6/02	6,292.65			
		INVENTORY-CLAY-FOUNTAIN		ACCOUNT TOTAL		97,620.78		***	1-1524-01
-01									
	R049	ROHM AND HAAS CO.	318-10990	0505	6/02	13,558.20			
	R049	ROHM AND HAAS CO.	318-11075	0513	6/02	12,856.10			
	R049	ROHM AND HAAS CO.	318-11139	0513	6/02	12,631.80			
	R049	ROHM AND HAAS CO.	13-1256455	0525	6/09	226.36-			
	R049	ROHM AND HAAS CO.	13-1256455	0525	6/09	13,493.30			
	R049	ROHM AND HAAS CO.	318-11076	0524	6/02	13,416.60			
	R049	ROHM AND HAAS CO.	13-1256455	0535	6/09	11,581.70			
	R049	ROHM AND HAAS CO.	318-11079	0545	6/16	12,844.30			
	S030	SEQUA CHEMICALS	A9942	0539	6/16	12,814.80			
	S030	SEQUA CHEMICALS	A10007	0547	6/23	13,115.70			
		INVENTORY-LATEX-FOUNTAIN		ACCOUNT TOTAL		116,086.14		***	1-1525-01
-01									
	D023	E. I. DU PONT COMPANY	L330543625	0525	6/02	30,516.85			
	D023	E. I. DU PONT COMPANY	L330549120	0547	6/16	30,707.04			
	D023	E. I. DU PONT COMPANY	L330654599	0547	6/23	30,676.10			
		INVENTORY-TITANIUM-FTN		ACCOUNT TOTAL		91,899.99		***	1-1526-01
-01									
	B020	BATTLE CREEK GAS COMPANY	APRIL	0547	6/02	89,142.48			
		NATURAL GAS		ACCOUNT TOTAL		89,142.48		***	1-1528-01

Request

17

DORR-OLIVER
INCORPORATED
STAMFORD, CONNECTICUT

November 23, 1960

Michigan Carton Company
Fountain Street
Battle Creek, Michigan

Attention: Mr. L. J. Phillips

Reference: Dorr-Oliver Disc Saveall

Gentlemen:

We are pleased to provide you with our revised proposal, in triplicate, covering our 9 ft. diameter by 12 discs in mild steel with additions as requested during our meeting of November 18th.

PERFORMANCE GUARANTEE

1. Provided that:

   a) The installation dealt with in this proposal is installed and operated in accordance with Dorr-Oliver's designs and instructions; and

   b) Dorr-Oliver shall, during the term of this guarantee, and during such additional time as may be required by Dorr-Oliver for the performance of its undertakings herein set forth, have full access to the installation and to operational data relating thereto.

   Dorr-Oliver guarantees that the 9 ft. diameter by 12 disc Saveall to be furnished in accordance with the terms of this proposal will, after stabilized operation has been attained, be capable of producing filtrate not to exceed 0.5 lbs. of suspended solids per 1,000 gallons over a consecutive 72 hour guarantee period. This. when operating on a chip stock with filler as sweetner having a CSF freeness of 300 or higher and feed consistency to the Saveall below 65 lbs. per 1,000 gallons.

   Dorr-Oliver furthermore guarantees that the 9 ft. diameter by 12 disc Saveall will handle 2,000 GPM of white water under the foregoing conditions provided the net effective vertical length of the barometric legs is 25 feet or more.

Michigan Carton Company
Fountain Street
Battle Creek, Michigan

The guarantee period shall fall within thirty (30) days after commencing the initial operation of the equipment or, sixty (60) days after receipt of the equipment, whichever period expires sooner.

2. All tests shall be conducted by purchaser in accordance with mutually acceptable techniques and at no cost to Dorr-Oliver, and Dorr-Oliver shall be given timely notice of purchaser's intent to perform these tests. Once it has been demonstrated that the equipment is capable of meeting the guarantee, or in the event purchaser fails to have such tests performed during the term of this guarantee, then, and in that event all of Dorr-Oliver's undertakings under the provisions of this guarantee shall be deemed to have been fully met and satisfied.

3. If, during the guarantee period, it becomes reasonably apparent both to purchaser and to Dorr-Oliver that the installation will fall materially short of the guaranteed performance, then, and in that event Dorr-Oliver shall have the right, at its own expense, to alter the equipment furnished by Dorr-Oliver and/or to furnish such equipment as it considers necessary until the deficiencies are rectified. Purchaser shall, without cost to Dorr-Oliver, install the additional equipment, if any, which may be provided by Dorr-Oliver under the provisions of this guarantee.

4. If, in Dorr-Oliver's sole judgment the deficiencies of the equipment are not correctable, or do not warrant corrective effort and expense, or if, after attempting correction, Dorr-Oliver judges that additional effort is not warranted, Dorr-Oliver shall so advise purchaser, and purchaser shall have the right and option to return the equipment furnished by Dorr-Oliver hereunder; which right and option shall extend for thirty (30) days following the giving of such notice. In the event purchaser exercises said option, purchaser agrees to return the equipment FOB cars to Hazleton, Pennsylvania as promptly thereinafter as is feasible.

   Dorr-Oliver agrees that as promptly as is feasible after such return it will refund to Purchaser all amounts paid by purchaser to Dorr-Oliver on the purchase price of the equipment.

5. The right to return the equipment under the conditions above specified, and to return back the amount paid on the purchase price, shall constitute purchaser's sole and exclusive remedy for damages, whether direct or consequential, incurred by reason of a failure to meet the terms of any guarantee, expressed or implied, in connection with said equipment.

DORR-OLIVER
INCORPORATED

Michigan Carbon Company
Fountain Street
Battle Creek, Michigan

Dorr-Oliver shall not be held liable for any damage, delay or loss which may result, directly or indirectly, from the adjustment, alteration, breakdown, repair or operation of any of the equipment furnished.

As you will note, under item #5, we are supplying the 7-1/2 horsepower motor and shipping all items f.o.b. Hazleton, Pennsylvania, with freight allowed to Battle Creek, Michigan. We hope this arrangement meets with your approval.

We would appreciate the opportunity to meet with you and your associates to discuss this proposal and project in detail at your convenience. Please do not hesitate to contact the writer for answers to questions relative to our fields of interest, as it is my extreme desire to assist you in every possible way to our mutual satisfaction.

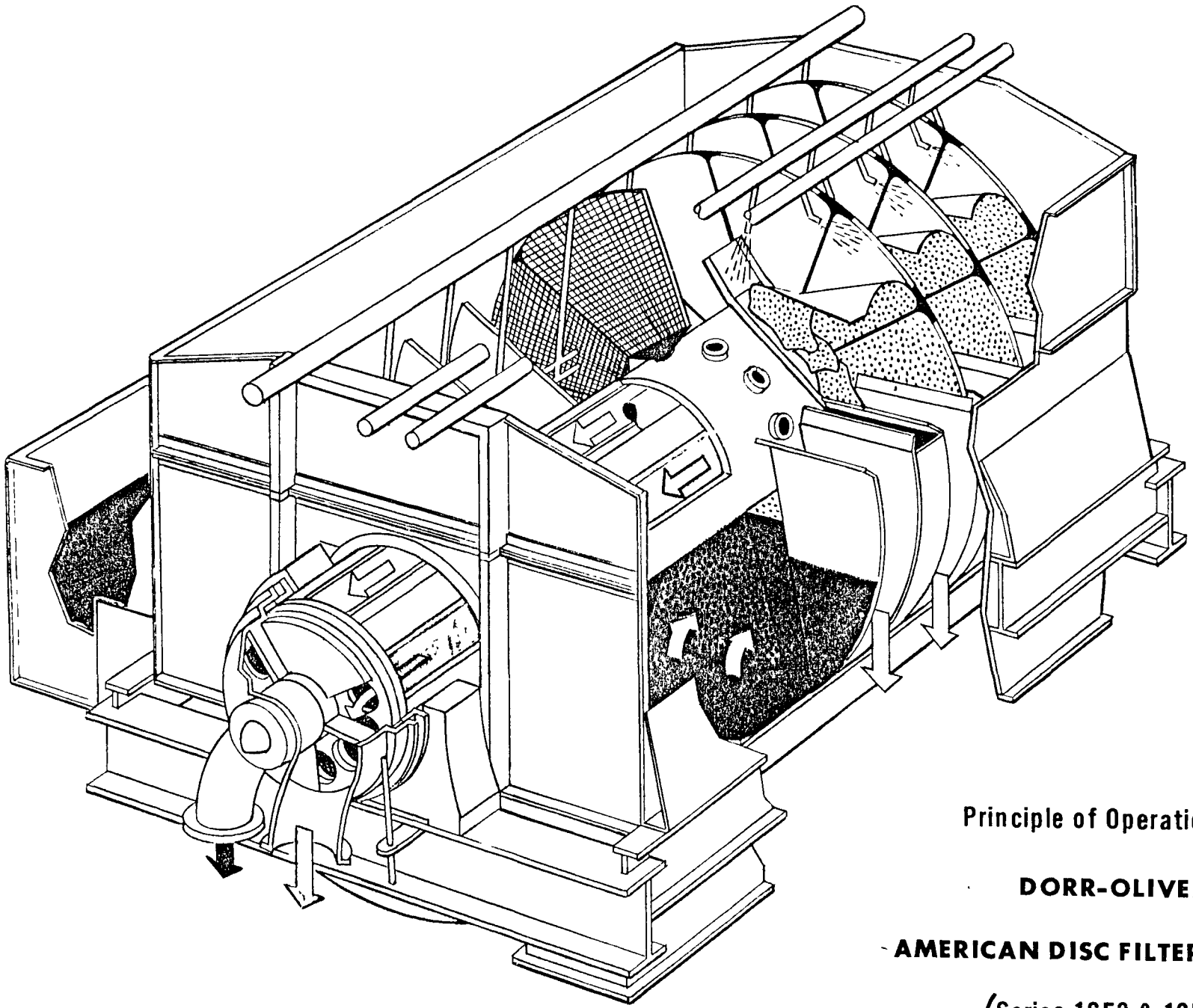
Very truly yours,

DORR-OLIVER INCORPORATED

W. F. Wangler

W. F. Wangler
Pulp and Paper Sales

WFW/mlh/21
Encl.



Principle of Operation of the

DORR-OLIVER

AMERICAN DISC FILTER-SAVEALL

(Series 16F3 & 16F3A)

Request

19

RPTA CHEMICAL TESTING PROTOCOL FOR FOOD-CONTACT PAPERBOARD MADE FROM RECYCLED FIBER

SECOND EDITION
REPORT # 13-4.2A
SEPTEMBER 21, 2001

Prepared by:
Recycled Paperboard Technical Association
Elgin, Illinois

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PART 1

INTRODUCTION AND BACKGROUND

I. INTRODUCTION TO RPTA AND ENVIRON STUDIES

The following discussion describes the efforts taken by the member companies of the Recycled Paperboard Technical Association ("RPTA") to confirm that paperboard manufactured by RPTA members primarily from fiber that has been recycled may be used safely for food-contact packaging.

II. REGULATORY CONSIDERATIONS

The U.S. Food and Drug Administration (FDA) allows the use of such fiber at the Code of Federal Regulations Title 21: Food and Drugs § 176.260 *Pulp from reclaimed fiber.*

(a) Pulp from reclaimed fiber may be safely used as a component of articles used in producing, manufacturing, packing, processing, preparing, treating, packaging, transporting, or holding food, subject to the provisions of paragraph (b) of this section.

(b) Pulp from reclaimed fiber is prepared from the paper and paperboard products described in paragraphs (b) (1) and (2) of this section, by re-pulping with water to recover the fiber with the least possible amount of non-fibrous substances.

(1) Industrial waste from the manufacture of paper and paperboard products excluding that which bears or contains any poisonous or deleterious substance which is retained in the recovered pulp and that migrates to the food, except as provided in regulations promulgated under section 406 and 409 of the Federal Food, Drug, and Cosmetic Act.

(2) Salvage from used paper and paperboard excluding that which (1) bears or contains any poisonous or deleterious substance which is retained in the recovered pulp and that migrates to the food, except as provided in

regulations promulgated under sections 406 and 409 of the act or (ii) has been used for shipping or handling any such substance.

Thus, 21 CFR § 176.260 recognizes that the source of reclaimed fiber may be either "industrial waste from the manufacture of paper and paperboard..." or "salvage from used paper and paperboard...". In both cases the regulation stipulates that the material may not bear or contain "any poisonous or deleterious substance...that migrates to the food except as provided in regulations...".

In addition, other regulations promulgated by other agencies from time to time may also apply to recycled-fiber paperboard in food-contact use.

III. RPTA AND ENVIRON STUDIES

A. Overview and Approach

Questions regarding the application of the FDA regulatory stipulation that pulp from reclaimed fiber may not bear or contain "any poisonous or deleterious substance...that migrates to the food except as provided in regulations..." prompted RPTA to develop further information allowing its member companies to produce paperboard that may confidently be used for food-contact packaging.

The potential "poisonous or deleterious substances" include:

- Excessive levels of certain microorganisms; and
- Potential unintentional chemical constituents such as heavy metals, pesticides, and other organic chemicals.

ENVIRON understands that RPTA member mills generally use only additives which their respective suppliers have identified as permitted under applicable and appropriate FDA regulations for food-contact paperboard use.

With regard to contamination by microorganisms, ENVIRON understands that RPTA member mills conduct testing of their paperboard products to monitor compliance with the bacteriological standards pertaining to pasteurized milk packaging.[1] This monitoring includes conducting surface swab microbiological testing.

Thus, potential unintentional chemical constituents have been the major focus of RPTA's safety assessment efforts. RPTA and ENVIRON International Corporation, a consulting firm with special expertise in the field of human health risk assessment, have conducted a safety assessment of the use of food-contact paperboard packaging made from recycled fiber. In addition to information provided by RPTA, ENVIRON used results of research conducted by the National Center for Food Safety and Technology.[2] The results of ENVIRON's safety assessments are Health-risk-based Allowable Concentrations in Food-contact Paperboard. Part 3 presents a discussion of the basis and computation of these concentrations and comprehensive presentations of them. The accompanying RPTA Chemical Testing Protocol for Food-contact Paperboard Made from Recycled Fiber ("the Protocol," Part 2) presents a methodology for mills to determine the concentrations in their paperboard to compare to the appropriate Allowable Concentrations ("ACs"). Part 4 contains guidance on communication with interested parties (e.g., customers, consumers).

B. Potential Unintended Chemical Constituents

The first task for RPTA and ENVIRON was to determine, out of the many potential unintended chemical constituents, which ones might be present in sufficient quantity to be of potential concern. Generally, these potential unintended chemical constituents may be categorized as follows:

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(1) American Public Health Association. 1992. *Standard Methods for the Examination of Dairy Products*. 16th edition. Robert T. Marshall, editor. Washington, DC. Section 3.7 Sampling Product Containers, Closures, Packaging Materials, Equipment, Water, and Air, Section 13.3 Tests for Equipment and Containers — B. Disintegration method to determine the microbial content of paper container materials and C. Surface contact methods.

(2) George Sadler. 1996. Extraction of Lead from Paperboard Using Fatty and Aqueous Food Simulants. National Center for Food Safety and Technology. Summit-Argo, Ill.

(1) Heavy metals;

(2) Pesticides and polychlorinated biphenyls ("PCBs');

(3) Volatile organic chemicals ("VOCs");

(4) Semivolatile organic chemicals ("SVOCs"); and

(5) Polychlorodibenzodioxins and polychlorodibenzofurans.

ENVIRON performed preliminary risk assessments using historical analytical data from analyses which had been conducted by RPTA member companies. This data was then supplemented by a more controlled sampling of food-contact paperboard manufactured by RPTA members. These samples were submitted to an independent chemical laboratory for analysis of potential unintentional additives of potential concern. This initial screening assessment employed the conservative assumption that 100% of the potential unintended chemical constituents migrated from the paperboard into the food. Using established FDA guidelines for dietary intake, types of paperboard packaging and types of food,[3] ENVIRON estimated the maximum possible intake for each potential unintended chemical constituent. This intake, compared with toxicity data from scientific literature, yields the actual risk of potential adverse health effects due to the particular potential unintended chemical constituent.

Using this conservative approach, ENVIRON compared its estimated maximum allowable concentrations for the chemical constituents with results for samples of paperboard from RPTA member mills and determined that most of the potential unintended chemical constituents for which analyses were performed are not present in the recycled-fiber paperboard at detectable levels using standard analytical methods. Further, ENVIRON found that the concentrations of most of those chemicals which were detected are less than their respective health-risk-based levels of concern.

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[3] U.S. Food and Drug Administration (FDA). Chemistry Review Branch (CRB). June 1995. *Recommendations for Chemistry Data for Indirect Food Additive Petitions*. Unless otherwise stated, the standard FDA food types, food distributions, usage factors, and assumptions that ENVIRON used in its assessment are provided in this FDA guidance document.

C. Potential Chemical Constituents Which were the Focus of Further Evaluation

A short, focused list of potential unintended chemical constituents remained for which use of the 100% migration assumption could not achieve exposure concentrations below the conservatively calculated allowable levels. Thus, the next step was to perform a migration analysis using food-simulating solvents (FSSs) in extraction tests to determine the amount of the specific unintended chemical constituent which might transfer from the paperboard package to the food in actual food contact uses. Appropriate FSSs were used to simulate aqueous[4] and fatty foods in standard FDA extraction cells. Using these two sets of migration factors (one for aqueous foods and the other for fatty foods) along with the standard FDA dietary intake assumptions, ENVIRON calculated a migration-adjusted, maximum allowable concentration in the paperboard for the potential unintended chemical constituents.

The Protocol (Part 2) is intended to provide RPTA member mills with a means for producing results of chemical analysis that may be compared to the appropriate allowable concentrations in paperboard. Together with the above described measures regarding intentional additives and microorganisms, this chemical testing protocol and tables of allowable concentrations provide RPTA members with an additional means to assure that their paperboard may be used safely for food-contact packaging.

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[4] Dry food was simulated using aqueous extraction results. Aqueous foods include aqueous, acidic, and alcoholic foods as described in the FDA-CRB guidelines.

PART 2

PROTOCOL

found concentration is less than or equal to the appropriate allowable concentration, then no additional actions are required. If, however, the re-sampling and analysis provides a found concentration that is greater than the appropriate allowable concentration for the constituent, then a review of source fiber, process components, and production should be conducted to mitigate the level of this constituent in the paperboard product. For chemical constituents that a specific mill added to the Periodic Focused Sampling and Analysis Program, a minimum of two focused sampling and analysis rounds should demonstrate concentrations below the appropriate allowable concentrations before a chemical constituent previously added to the focused list is dropped.

Table 2-1
Conservative Allowable Concentrations[1] in Food-contact Paperboard

Metals

			Poly Coated Paperboard			Clay Coated/Uncoated Paperboard			All Paperboard
Analyte	CAS No.	Adjusted for Migration[2]	AC - All Food Types (mg/kg)	AC - Aqueous Contact Only (mg/kg)	AC - Fatty Contact Only (mg/kg)	AC - All Food Types (mg/kg)	AC - Aqueous Contact Only (mg/kg)	AC - Fatty Contact Only (mg/kg)	AC - All Food Types (mg/kg)
Antimony	7440-36-0		1.48e+0	2.47e+0	3.70e+0	2.96e+0	5.02e+0	7.23e+0	9.88e-1
Arsenic	7440-38-2		1.11e+0	1.85e+0	2.78e+0	2.22e+0	3.77e+0	5.42e+0	7.41e-1
Barium	7440-39-3		2.59e+2	4.32e+2	6.48e+2	5.19e+2	8.79e+2	1.26e+3	1.73e+2
Beryllium	7440-41-7		1.85e+1	3.09e+1	4.63e+1	3.70e+1	6.28e+1	9.03e+1	1.23e+1
Cadmium (food)	7440-43-9		3.70e+0	6.17e+0	9.26e+0	7.41e+0	1.26e+1	1.81e+1	2.47e+0
Chromium (III)	16065-83-1		3.70e+3	6.17e+3	9.26e+3	7.41e+3	1.26e+4	1.81e+4	2.47e+3
Chromium (VI)	18540-29-9		1.85e+1	3.09e+1	4.63e+1	3.70e+1	6.28e+1	9.03e+1	1.23e+1
Copper	7440-50-8		4.81e+3	8.02e+3	1.20e+4	9.63e+3	1.63e+4	2.35e+4	3.21e+3
Lead	7439-92-1	M	3.20e+0	5.58e+0	7.52e+0	6.40e+0	1.14e+1	1.47e+1	2.14e+0
Manganese	7439-96-5		5.19e+2	8.64e+2	1.30e+3	1.04e+3	1.76e+3	2.53e+3	3.46e+2
Mercury	7439-97-6		2.59e+0	4.32e+0	6.48e+0	5.19e+0	8.79e+0	1.26e+1	1.73e+0
Nickel, soluble salts	NA		7.41e+1	1.23e+2	1.85e+2	1.48e+2	2.51e+2	3.61e+2	4.94e+1
Selenium	7782-49-2		1.85e+1	3.09e+1	4.63e+1	3.70e+1	6.28e+1	9.03e+1	1.23e+1
Silver	7440-22-4		1.85e+1	3.09e+1	4.63e+1	3.70e+1	6.28e+1	9.03e+1	1.23e+1
Zinc	7440-66-6		1.11e+3	1.85e+3	2.78e+3	2.22e+3	3.77e+3	5.42e+3	7.41e+2

Table 2-1
Conservative Allowable Concentrations[1] in Food-contact Paperboard

Notes:

[1] Allowable concentrations (AC) were calculated assuming a basis weight of 0.315 g/in2 (100 lb/1,000 ft2) as described in Part 3 of this report. Paperboard with a different basis weight will have different allowable concentrations. As basis weight increases, the allowable concentration decreases.
Input variables revised on November 7, 1997. Analysis revised January 21, 1998.

[2] Exposure estimates for chemicals indicated by an "M" were adjusted for migration based on results of food-simulating solvent extraction testing.

PART 3

CALCULATION OF HEALTH-RISK-BASED ALLOWABLE CONCENTRATIONS IN FOOD-CONTACT PAPERBOARD MADE FROM RECYCLED FIBER

CALCULATION OF HEALTH-RISK-BASED ALLOWABLE CONCENTRATIONS

At the request of the Recycled Paperboard Technical Association ("RPTA"), ENVIRON conducted a human health risk assessment of the use of food-contact paperboard made from recycled fiber. This assessment involved estimating health-risk-based maximum safe concentrations ("allowable concentrations") for potential chemical constituents of paperboard made using recycled fiber and intended for food-contact applications. ENVIRON compiled the readily available, applicable toxicity reference values and calculated allowable daily doses ("ADDs") as described in Section I below. Using these ADDs, ENVIRON calculated allowable concentrations in paperboard in food-contact using standard U. S. Food and Drug Administration assumptions concerning the food-contact use exposures as described in Section II below.

I. ALLOWABLE DAILY DOSES

ENVIRON converted available toxicity reference values (Table 3-1) from reliable, recognized, scientific and regulatory sources to allowable daily doses ("ADDs") so that toxicity for the chemical constituents are expressed in the same units. The ADDs were then used to calculate allowable concentrations ("ACs"). The equations used to calculate ADDs are presented below. These ADDs were derived from the toxicity reference values based on various chronic toxicity and other applicable health effects studies: Toxicity values derived from chronic toxicity studies were preferred over toxicity values derived from sub-chronic or acute studies. Table 3-1 presents the toxicity reference values and ENVIRON's calculated ADDs. The methodology for ENVIRON's calculations of ADDs are presented below.

Equation 5:

$$ADD\ (mg/kg/day) = \frac{MCL\ (mg/L) \times 2\ L/day)}{70\ kg}$$

For TDLo (mg/kg/day), where TDLo is the lowest toxic dose for animals tested over a sub-chronic period and 10^3 is a safety factor to convert to long-term risk:

Equation 6:

$$ADD\ (mg/kg/day) = \frac{TDLo\ (mg/kg)}{10^3}$$

ENVIRON also derived ADDs from toxicity reference values from sub-chronic or acute toxicity studies (where chronic study data were not readily available). Such ADDs were calculated as follows:

For NOEL in mg/kg, where NOEL is the no-observable-effect-level and 10^2 is a safety factor:

Equation 7:

$$ADD\ (mg/kg/day) = \frac{NOEL\ (mg/kg)}{10^2}$$

For TDLo-S (sub-chronic) in mg/kg, where TDLo-S is the lowest toxic dose for test animals receiving multiple doses of the chemical over a short-term period and 5×10^3 is a safety factor to convert to long-term risk:

Equation 8:

$$ADD\ (mg/kg/day) = \frac{TDLo\text{-}S\ (mg/kg)}{5 \times 10^3}$$

II. ALLOWABLE CONCENTRATIONS

Allowable concentrations ("ACs") were calculated separately for**[: (1) polymer-**]coated**[;]** and **[(2)]** uncoated **[or clay-coated]** paperboard. If results of testing for extraction of the chemical constituent from paperboard into a food-simulating solvent (aqueous or fatty simulant) were available, then ENVIRON used the available migration factors (Table 3-7). In addition, chemical constituents closely related by structure and class were assigned migration factors for the relevant, tested chemical constituent. If, however, no chemical-specific migration factor could be assigned, then ENVIRON assumed conservatively that the migration factor was 100%. ENVIRON calculated the ACs as presented in Equation 13.

Equation 13:

$$AC = \frac{\dfrac{ADD \times BW \times FC}{B \times CF \times F}}{(F_{t\text{-}a} \times M_a) + (F_{t\text{-}f} \times M_f)}$$

where,

ADD	=	Allowable Daily Dose (mg/kg/day) (see Part 5, Table 1 for toxicity reference values, sources, etc., for the individual chemical constituents)
FC	=	Food contact ratio = 10 g/in^2 (this is a standard FDA assumption)
B	=	Basis weight of paperboard = 0.315 g/in^2, that is, 100 lb per 1000 ft^2 (this is an ENVIRON estimate based on information from RPTA)
BW	=	Body weight of a person = 70 kg (this is a standard FDA assumption)

allowable concentrations presented in Table 2-1. Table 3-7 presents the migration factors used for calculating the ACs: note that ENVIRON set migration factors to 100% if no testing results were available for the chemical constituent or a related chemical.

PART 4

INSTRUCTIONS ON COVER LETTERS TO CUSTOMERS AND CONSUMERS

Table 3-1
Toxicity Reference Values
Used to Calculate Health-risk-based Allowable Concentrations

Analyte	CAS Number	Tox Parameter[1]	Tox Value	Units	ADD (mg/kg/day)	Reference
Acenaphthene	83-32-9	RfD	6.00e-2	mg/kg/day	6.00e-2	IRIS
Acenaphthylene	208-96-8	RfD	4.00e-2	mg/kg/day	4.00e-2	EPA
Acenaphthylene	208-96-8	RfD	3.00e-2	mg/kg/day	3.00e-2	IRIS-A
Aldrin	309-00-2	CSF	1.70e+1	mg/kg/day-1	5.88e-8	IRIS
Aldrin	309-00-2	NSRL	4.00e-2	ug/day	5.71e-7	Prop 65
Anthracene	120-12-7	RfD	3.00e-1	mg/kg/day	3.00e-1	IRIS
Antimony	7440-36-0	RfD	4.00e-4	mg/kg/day-1	4.00e-4	IRIS
Aroclor-1016	12674-11-2	NSRL	9.00e-2	ug/day	1.29e-6	Prop 65
Aroclor-1221	11104-28-2	NSRL	9.00e-2	ug/day	1.29e-6	Prop 65
Aroclor-1232	11141-16-5	NSRL	9.00e-2	ug/day	1.29e-6	Prop 65
Aroclor-1242	53469-21-9	NSRL	9.00e-2	ug/day	1.29e-6	Prop 65
Aroclor-1248	12672-29-6	NSRL	9.00e-2	ug/day	1.29e-6	Prop 65
Aroclor-1254	11097-69-1	NSRL	9.00e-2	ug/day	1.29e-6	Prop 65
Aroclor-1260	11096-82-5	NSRL	1.00e-1	ug/day	1.43e-6	Prop 65
Arsenic	7440-38-2	RfD	3.00e-4	mg/kg/day-1	3.00e-4	IRIS
BHC, Delta-	319-86-8	CSF	1.80e+0	mg/kg/day-1	5.56e-7	IRIS
BHC, alpha-	319-84-6	CSF	6.30e+0	mg/kg/day-1	1.59e-7	IRIS
BHC, alpha-	319-84-6	NSRL	3.00e-1	ug/day	4.29e-6	Prop 65
BHC, beta-	319-85-7	CSF	1.80e+0	mg/kg/day-1	5.56e-7	IRIS

Table 3-1
Toxicity Reference Values
Used to Calculate Health-risk-based Allowable Concentrations

Analyte	CAS Number	Tox Parameter[1]	Tox Value	Units	ADD (mg/kg/day)	Reference
Benzo(k)fluoranthene	207-08-9	CSF	7.30e-2	mg/kg/day-1	1.37e-5	EPA
Benzo(k)fluoranthene	207-08-9	CSF	1.23e-1	mg/kg/day-1	8.13e-6	FDA
Benzoic acid	65-85-0	RfD	4.00e+0	mg/kg/day	4.00e+0	IRIS
Benzyl alcohol	100-51-6	RfD	1.00e+0	mg/kg/day	1.00e+0	HEAST
Beryllium	7440-41-7	RfD	5.00e-3	mg/kg/day-1	5.00e-3	IRIS
Biphenyl	92-52-4	RfD	5.00e-2	mg/kg/day	5.00e-2	IRIS
Bis(2-ethylhexyl) Phthalate	117-81-7	NSRL	8.00e+1	ug/day	1.14e-3	Prop 65
Bis(2-ethylhexyl) Phthalate (EPA CSF)	117-81-7	CSF	1.40e-2	mg/kg/day-1	7.14e-5	IRIS
Bis(2-ethylhexyl) Phthalate (FDA CSF)	117-81-7	CSF	6.07e-3	mg/kg/day-1	1.65e-4	ENVIRON
Bis(2-ethylhexyl) Phthalate (M&C NOEL)	117-81-7	NOEL	4.40e+1	mg/kg/day	4.40e-1	ENVIRON
Brightener 220	16470-24-9	NOEL	5.21e+2	mg/kg/day-1	5.21e+0	ENVIRON
Bromobenzene	108-86-1	LD50	2.70e+3	mg/kg	2.70e-2	RTECS
Bromochloromethane	74-97-5	LD50	4.30e+3	mg/kg	4.30e-2	RTECS
Bromodichloromethane	75-27-4	CSF	6.20e-2	mg/kg/day-1	1.61e-5	IRIS
Bromodichloromethane	75-27-4	NSRL	5.00e+0	ug/day	7.14e-5	Prop 65
Bromoform	75-25-2	CSF	7.90e-3	mg/kg/day-1	1.27e-4	IRIS
Bromoform	75-25-2	NSRL	9.00e+1	ug/day	1.29e-3	Prop 65
Bromomethane	74-83-9	RfD	1.40e-3	mg/kg/day	1.40e-3	IRIS
Butylbenzyl Phthalate	85-68-7	RfD	2.00e-1	mg/kg/day	2.00e-1	IRIS

Table 3-1
Toxicity Reference Values
Used to Calculate Health-risk-based Allowable Concentrations

Analyte	CAS Number	Tox Parameter[1]	Tox Value	Units	ADD (mg/kg/day)	Reference
Chromium (VI)	18540-29-9	RfD	5.00e-3	mg/kg/day-1	5.00e-3	IRIS
Chrysene	218-01-9	CSF	2.28e-2	mg/kg/day-1	4.39e-5	FDA
Chrysene	218-01-9	NSRL	2.00e-1	ug/day	2.86e-6	Prop 65
Copper	7440-50-8	RfD	1.30e+0	mg/l	1.30e+0	HEAST
Cumene	98-82-8	RfD	4.00e-2	mg/kg/day	4.00e-2	IRIS
Cymene, p-	99-87-6	LD50	4.75e+3	mg/kg	4.75e-2	RTECS
DDD, 4,4'-	72-54-8	CSF	2.40e-1	mg/kg/day-1	4.17e-6	IRIS
DDE, 4,4'-	72-55-9	CSF	3.40e-1	mg/kg/day-1	2.94e-6	IRIS
DDT, 4,4'-	50-29-3	CSF	3.40e-1	mg/kg/day-1	2.94e-6	IRIS
Di-n-butyl Phthalate	84-74-2	RfD	1.00e-1	mg/kg/day	1.00e-1	IRIS
Di-n-octyl Phthalate	117-84-0	RfD	2.00e-2	mg/kg/day	2.00e-2	HEAST
Dibenz(a,h)anthracene	53-70-3	CSF	1.84e+0	mg/kg/day-1	5.43e-7	FDA
Dibenz(a,h)anthracene	53-70-3	NSRL	2.00e-1	ug/day	2.86e-6	Prop 65
Dibenzofuran	132-64-9	RfD	4.00e-3	mg/kg/day	4.00e-3	HEAST
Dibromo-3-chloropropane, 1,2-	96-12-8	AIL	1.00e-1	ug/day	1.43e-6	Prop 65
Dibromochloromethane	124-48-1	CSF	8.40e-2	mg/kg/day-1	1.19e-5	IRIS
Dibromoethane, 1,2-	106-93-4	CSF	8.50e+1	mg/kg/day-1	1.18e-8	IRIS
Dibromomethane	74-95-3	LD50	1.08e+2	mg/kg	1.08e-3	RTECS
Dichlorobenzene, 1,2-	95-50-1	RfD	9.00e-2	mg/kg/day	9.00e-2	IRIS

Table 3-1
Toxicity Reference Values
Used to Calculate Health-risk-based Allowable Concentrations

Analyte	CAS Number	Tox Parameter[1]	Tox Value	Units	ADD (mg/kg/day)	Reference
Dieldrin	60-57-1	CSF	1.60e+1	mg/kg/day-1	6.25e-8	IRIS
Dieldrin	60-57-1	NSRL	4.00e-2	ug/day	5.71e-7	Prop 65
Diethyl Phthalate	84-66-2	RfD	8.00e-1	mg/kg/day	8.00e-1	IRIS
Dimethyl Phthalate	131-11-3	RfD	8.00e-1	mg/kg/day	8.00e-1	IRIS-A
Dimethylphenol, 2,4-	105-67-9	RfD	2.00e-2	mg/kg/day	2.00e-2	IRIS
Dinitro-2-methylphenol, 4,6-	534-52-1	LD50	7.00e+0	mg/kg	7.00e-5	RTECS
Dinitrophenol, 2,4-	51-28-5	LD50	3.00e+1	mg/kg	3.00e-4	RTECS
Dinitrotoluene, 2,4-	121-14-2	NSRL	2.00e+0	ug/day	2.86e-5	Prop 65
Dinitrotoluene, 2,4-	121-14-2	RfD	2.00e-3	mg/kg/day	2.00e-3	IRIS
Dinitrotoluene, 2,6-	606-20-2	CSF	6.80e-1	mg/kg/day-1	1.47e-6	IRIS
Endosulfan I	959-98-8	RfD	6.00e-3	mg/kg/day	6.00e-3	HEAST
Endosulfan II	33213-65-9	LD50	2.40e+2	mg/kg	2.40e-3	RTECS
Endosulfan sulfate	1031-07-8	LD50	1.80e+1	mg/kg	1.80e-4	RTECS
Endrin	72-20-8	RfD	3.00e-4	mg/kg/day	3.00e-4	IRIS
Endrin ketone	53494-70-5	LD50	1.00e+1	mg/kg	1.00e-4	RTECS
Ethylbenzene	100-41-4	RfD	1.00e-1	mg/kg/day	1.00e-1	IRIS
Fluoranthene	206-44-0	CSF	3.50e-2	mg/kg/day-1	2.86e-5	FDA
Fluoranthene	206-44-0	RfD	4.00e-2	mg/kg/day	4.00e-2	IRIS
Fluorene	86-73-7	RfD	4.00e-2	mg/kg/day	4.00e-2	IRIS

Table 3-1
Toxicity Reference Values
Used to Calculate Health-risk-based Allowable Concentrations

Analyte	CAS Number	Tox Parameter[1]	Tox Value	Units	ADD (mg/kg/day)	Reference
Methylene chloride	75-09-2	CSF	7.50e-3	mg/kg/day-1	1.33e-4	IRIS
Methylnaphthalene, 1-	90-12-0	RfD	4.00e-2	mg/kg/day	4.00e-2	EPA
Methylnaphthalene, 2-	91-57-6	RfD	4.00e-2	mg/kg/day	4.00e-2	EPA
Methylphenol, 2-	95-48-7	RfD	5.00e-2	mg/kg/day	5.00e-2	IRIS
Methylphenol, 3/4-	NA	RfD	5.00e-2	mg/kg/day	5.00e-2	IRIS
Mirex	2385-85-5	NSRL	4.00e-2	ug/day	5.71e-7	Prop 65
Mirex	2385-85-5	RfD	2.00e-4	mg/kg/day	2.00e-4	IRIS
N-Nitroso-di-n-propylamine	621-64-7	CSF	7.00e+0	mg/kg/day-1	1.43e-7	IRIS
N-Nitroso-di-n-propylamine	621-64-7	NSRL	1.00e-1	ug/day	1.43e-6	Prop 65
N-Nitrosodimethylamine	62-75-9	CSF	5.10e+1	mg/kg/day-1	1.96e-8	IRIS
N-Nitrosodimethylamine	62-75-9	NSRL	4.00e-2	ug/day	5.71e-7	Prop 65
N-Nitrosodiphenylamine	86-30-6	CSF	4.90e-3	mg/kg/day-1	2.04e-4	IRIS
N-Nitrosodiphenylamine	86-30-6	NSRL	8.00e+1	ug/day	1.14e-3	Prop 65
Naphthalene	91-20-3	RfD	3.00e-2	mg/kg/day	3.00e-2	IRIS-A
Nickel, soluble salts	NA	RfD	2.00e-2	mg/kg/day-1	2.00e-2	IRIS
Nitroaniline, 2-	88-74-4	LD50	1.07e+3	mg/kg	1.07e-2	RTECS
Nitroaniline, 3-	99-09-2	LD50	9.00e+2	mg/kg	9.00e-3	HSDB
Nitroaniline, 4-	100-01-6	LD50	7.50e+2	mg/kg	7.50e-3	RTECS
Nitrobenzene	98-95-3	RfD	5.00e-4	mg/kg/day	5.00e-4	IRIS

Table 3-1
Toxicity Reference Values
Used to Calculate Health-risk-based Allowable Concentrations

Analyte	CAS Number	Tox Parameter[1]	Tox Value	Units	ADD (mg/kg/day)	Reference
Toluene	108-88-3	AIL	7.00e+3	ug/day	1.00e-1	Prop 65
Toluene	108-88-3	RfD	2.00e-1	mg/kg/day	2.00e-1	IRIS
Toxaphene	8001-35-2	CSF	1.10e+0	mg/kg/day-1	9.09e-7	IRIS
Toxaphene	8001-35-2	NSRL	6.00e-1	ug/day	8.57e-6	Prop 65
Trichlorobenzene, 1,2,4-	120-82-1	RfD	1.30e-3	mg/kg/day	1.30e-3	IRIS
Trichloroethane, 1,1,1-	71-55-6	LD50	9.60e+3	mg/kg	9.60e-2	RTECS
Trichloroethane, 1,1,2-	79-00-5	CSF	5.70e-2	mg/kg/day-1	1.75e-5	IRIS
Trichloroethene	79-01-6	LD50	2.40e+3	mg/kg	2.40e-2	RTECS
Trichlorofluoromethane	75-69-4	RfD	3.00e-1	mg/kg/day	3.00e-1	IRIS
Trichlorophenol, 2,4,5-	95-95-4	RfD	1.00e-1	mg/kg/day	1.00e-1	IRIS
Trichlorophenol, 2,4,6-	88-06-2	CSF	1.10e-2	mg/kg/day-1	9.09e-5	IRIS
Trichlorophenol, 2,4,6-	88-06-2	NSRL	1.00e+1	ug/day	1.43e-4	Prop 65
Trichloropropane, 1,2,3-	96-18-4	CSF	7.00e+0	mg/kg/day-1	1.43e-7	HEAST
Trimethylbenzene, 1,2,4-	95-63-6	LD50	5.00e+3	mg/kg	5.00e-2	RTECS
Vinyl chloride	75-01-4	CSF	1.90e+0	mg/kg/day-1	5.26e-7	HEAST
Vinyl chloride	75-01-4	NSRL	3.00e+0	ug/day	4.29e-5	Prop 65
Xylene, m-/p-	NA	RfD	2.00e+0	mg/kg/day	2.00e+0	IRIS
Xylene, o-	108-38-3	RfD	2.00e+0	mg/kg/day	2.00e+0	IRIS
Zinc	7440-66-6	RfD	3.00e-1	mg/kg/day-1	3.00e-1	IRIS

Table 3-2
Allowable Concentrations[1] in Paperboard (FDA Food-contact)
Baseline Comprehensive List of Chemicals

Metals

			Poly Coated Paperboard			Clay Coated/Uncoated Paperboard			All Paperboard
Analyte	CAS No.	Adjusted for Migration[2]	AC- All Food Types (mg/kg)	AC- Aqueous Contact Only (mg/kg)	AC- Fatty Contact Only (mg/kg)	AC- All Food Types (mg/kg)	AC- Aqueous Contact Only (mg/kg)	AC- Fatty Contact Only (mg/kg)	AC-All Food Types (mg/kg)
Antimony	7440-36-0		1.48e+0	2.47e+0	3.70e+0	2.96e+0	5.02e+0	7.23e+0	9.88e-1
Arsenic	7440-38-2		1.11e+0	1.85e+0	2.78e+0	2.22e+0	3.77e+0	5.42e+0	7.41e-1
Barium	7440-39-3		2.59e+2	4.32e+2	6 48e+2	5.19e+2	8.79e+2	1.26e+3	1.73e+2
Beryllium	7440-41-7		1.85e+1	3.09e+1	4.63e+1	3.70e+1	6.28e+1	9.03e+1	1.23e+1
Cadmium (food)	7440-43-9		3.70e+0	6.17e+0	9.26e+0	7.41e+0	1.26e+1	1.81e+1	2.47e+0
Chromium (III)	16065-83-1		3.70e+3	6.17e+3	9.26e+3	7.41e+3	1.26e+4	1.81e+4	2.47e+3
Chromium (VI)	18540-29-9		1.85e+1	3.09e+1	4.63e+1	3.70e+1	6.28e+1	9.03e+1	1.23e+1
Copper	7440-50-8		4.81e+3	8.02e+3	1.20e+4	9.63e+3	1.63e+4	2.35e+4	3.21e+3
Lead	7439-92-1	M	1.87e+2	3.26e+2	4.38e+2	3.73e+2	6.62e+2	8.55e+2	1.25e+2
Manganese	7439-96-5		5.19e+2	8.64e+2	1.30e+3	1.04e+3	1.76e+3	2.53e+3	3.46e+2
Mercury	7439-97-6		2.59e+0	4.32e+0	6.48e+0	5.19e+0	8.79e+0	1.26e+1	1.73e+0
Nickel, soluble salts	NA		7.41e+1	1.23e+2	1.85e+2	1.48e+2	2.51e+2	3.61e+2	4.94e+1
Selenium	7782-49-2		1.85e+1	3.09e+1	4.63e+1	3.70e+1	6.28e+1	9.03e+1	1.23e+1
Silver	7440-22-4		1.85e+1	3.09e+1	4.63e+1	3.70e+1	6.28e+1	9.03e+1	1.23e+1

Table 3-2
Allowable Concentrations[1] in Paperboard (FDA Food-contact)
Baseline Comprehensive List of Chemicals

PAHs

			Poly Coated Paperboard			Clay Coated/Uncoated Paperboard			All Paperboard
Analyte	CAS No.	Adjusted for Migration[2]	AC- All Food Types (mg/kg)	AC- Aqueous Contact Only (mg/kg)	AC- Fatty Contact Only (mg/kg)	AC- All Food Types (mg/kg)	AC- Aqueous Contact Only (mg/kg)	AC- Fatty Contact Only (mg/kg)	AC-All Food Types (mg/kg)
Benzo(k)fluoranthene	207-08-9	M	6.79e-2	6.88e-1	7.53e-2	1.33e-1	1.40e+0	1.47e-1	4.52e-2
Chrysene	218-01-9	M	7.31e-1	1.67e+1	7.64e-1	1.43e+0	3.40e+1	1.49e+0	4.87e-1
Dibenz(a,h)anthracene	53-70-3	M	4.54e-3	4.60e-2	5.03e-3	8.89e-3	9.36e-2	9.82e-3	3.02e-3
Fluoranthene	206-44-0	M	4.65e-1	6.19e+0	5.02e-1	9.09e-1	1.26e+1	9.80e-1	3.10e-1
Fluorene	86-73-7	M	2.15e+3	6.01e+3	3.34e+3	4.25e+3	1.22e+4	6.51e+3	1.43e+3
Indeno(1,2,3-cd)pyrene	193-39-5	M	6.31e-2	2.73e-1	8.20e-2	1.24e-1	5.56e-1	1.60e-1	4.20e-2
Naphthalene	91-20-3	M	1.31e+3	1.87e+3	4.32e+3	2.62e+3	3.80e+3	8.43e+3	8 70e+2
Phenanthrene	85-01-8	M	1.42e+3	9.96e+3	1.66e+3	2.79e+3	2.02e+4	3.23e+3	9.47e+2
Pyrene	129-00-0	M	5.00e+2	1.14e+4	5.23e+2	9.77e+2	2.32e+4	1.02e+3	3.33e+2

Table 3-2
Allowable Concentrations[1] in Paperboard (FDA Food-contact)
Baseline Comprehensive List of Chemicals

Pesticides

			Poly Coated Paperboard			Clay Coated/Uncoated Paperboard			All Paperboard
Analyte	CAS No.	Adjusted for Migration[2]	AC- All Food Types (mg/kg)	AC- Aqueous Contact Only (mg/kg)	AC- Fatty Contact Only (mg/kg)	AC- All Food Types (mg/kg)	AC- Aqueous Contact Only (mg/kg)	AC- Fatty Contact Only (mg/kg)	AC-All Food Types (mg/kg)
BHC, Delta-	319-86-8		2.06e-3	3.43e-3	5.14e-3	4.12e-3	6.97e-3	1.00e-2	1.37e-3
BHC, alpha-	319-84-6		5.88e-4	9.80e-4	1.47e-3	1.18e-3	1.99e-3	2.87e-3	3.92e-4
BHC, beta-	319-85-7		2.06e-3	3.43e-3	5.14e-3	4.12e-3	6.97e-3	1.00e-2	1.37e-3
BHC, gamma- (Lindane)	58-89-9		1.11e+0	1.85e+0	2.78e+0	2.22e+0	3.77e+0	5.42e+0	7.41e-1
Chlordane, alpha-	5103-71-9		1.85e+1	3.09e+1	4.63e+1	3.70e+1	6.28e+1	9.03e+1	1.23e+1
Chlordane, gamma-	57-74-9		1.85e+1	3.09e+1	4.63e+1	3.70e+1	6.28e+1	9.03e+1	1.23e+1
DDD, 4,4'-	72-54-8		1.54e-2	2.57e-2	3.86e-2	3.09e-2	5.23e-2	7.53e-2	1.03e-2
DDE, 4,4'-	72-55-9		1.09e-2	1.82e-2	2.72e-2	2.18e-2	3.69e-2	5.31e-2	7.26e-3
DDT, 4,4'-	50-29-3		1.09e-2	1.82e-2	2.72e-2	2.18e-2	3.69e-2	5.31e-2	7.26e-3
Dieldrin	60-57-1		2.31e-4	3.86e-4	5.79e-4	4.63e-4	7.85e-4	1.13e-3	1.54e-4
Endosulfan I	959-98-8		2.22e+1	3.70e+1	5.56e+1	4.44e+1	7.53e+1	1.08e+2	1.48e+1
Endosulfan II	33213-65-9		8.89e+0	1.48e+1	2.22e+1	1.78e+1	3.01e+1	4.34e+1	5.93e+0
Endosulfan sulfate	1031-07-8		6.67e-1	1.11e+0	1.67e+0	1.33e+0	2.26e+0	3.25e+0	4.44e-1
Endrin	72-20-8		1.11e+0	1.85e+0	2.78e+0	2.22e+0	3.77e+0	5.42e+0	7.41e-1

Table 3-2
Allowable Concentrations[1] in Paperboard (FDA Food-contact)
Baseline Comprehensive List of Chemicals

Semi-volatiles

			Poly Coated Paperboard			Clay Coated/Uncoated Paperboard			All Paperboard
Analyte	CAS No.	Adjusted for Migration[2]	AC- All Food Types (mg/kg)	AC- Aqueous Contact Only (mg/kg)	AC- Fatty Contact Only (mg/kg)	AC- All Food Types (mg/kg)	AC- Aqueous Contact Only (mg/kg)	AC- Fatty Contact Only (mg/kg)	AC-All Food Types (mg/kg)
Benzyl alcohol	100-51-6		3.70e+3	6.17e+3	9.26e+3	7.41e+3	1.26e+4	1.81e+4	2.47e+3
Biphenyl	92-52-4		1.85e+2	3.09e+2	4.63e+2	3.70e+2	6.28e+2	9.03e+2	1.23e+2
Bis(2-ethylhexyl) Phthalate (M&C NOEL)	117-81-7	M	6.36e+3	5.79e+4	7.15e+3	1.25e+4	1.18e+5	1.39e+4	4.24e+3
Brightener 220	16470-24-9		1.93e+4	3.22e+4	4.82e+4	3.86e+4	6.54e+4	9.41e+4	1.29e+4
Butylbenzyl Phthalate	85-68-7	M	4.32e+3	2.90e+4	5.07e+3	8.48e+3	5.91e+4	9.90e+3	2.88e+3
Carbazole	86-74-8		1.85e-1	3.09e-1	4.63e-1	3.70e-1	6.28e-1	9.03e-1	1.23e-1
Chloro-3-methylphenol, 4-	59-50-7		6.78e+1	1.13e+2	1.69e+2	1.36e+2	2.30e+2	3.31e+2	4.52e+1
Chloroaniline, 4-	106-47-8		1.48e+1	2.47e+1	3.70e+1	2.96e+1	5.02e+1	7.23e+1	9.88e+0
Chloronaphthalene, 2-	91-58-7		2.96e+2	4.94e+2	7.41e+2	5.93e+2	1.00e+3	1.45e+3	1.98e+2
Chlorophenol, 2-	95-57-8		1.85e+1	3.09e+1	4.63e+1	3.70e+1	6.28e+1	9.03e+1	1.23e+1
Di-n-butyl Phthalate	84-74-2	M	2.19e+3	1.28e+4	2.65e+3	4.31e+3	2.59e+4	5.17e+3	1.46e+3
Di-n-octyl Phthalate	117-84-0	M	2.89e+2	2.63e+3	3.25e+2	5.67e+2	5.35e+3	6.34e+2	1.93e+2
Dibenzofuran	132-64-9		1.48e+1	2.47e+1	3.70e+1	2.96e+1	5.02e+1	7.23e+1	9.88e+0

Table 3-2
Allowable Concentrations[1] in Paperboard (FDA Food-contact)
Baseline Comprehensive List of Chemicals

Semi-volatiles

			Poly Coated Paperboard			Clay Coated/Uncoated Paperboard			All Paperboard
Analyte	CAS No.	Adjusted for Migration[2]	AC- All Food Types (mg/kg)	AC- Aqueous Contact Only (mg/kg)	AC- Fatty Contact Only (mg/kg)	AC- All Food Types (mg/kg)	AC- Aqueous Contact Only (mg/kg)	AC- Fatty Contact Only (mg/kg)	AC-All Food Types (mg/kg)
Hexachlorobutadiene	87-68-3		4.75e-2	7.91e-2	1.19e-1	9.50e-2	1.61e-1	2.32e-1	3.17e-2
Hexachlorocyclopentadiene	77-47-4		2.59e+1	4.32e+1	6.48e+1	5.19e+1	8.79e+1	1.26e+2	1.73e+1
Hexachloroethane	67-72-1		2.65e-1	4.41e-1	6.61e-1	5.29e-1	8.97e-1	1.29e+0	1.76e-1
Isophorone	78-59-1		3.70e+0	6.17e+0	9.26e+0	7.41e+0	1.26e+1	1.81e+1	2.47e+0
Methylnaphthalene, 1-	90-12-0		1.48e+2	2.47e+2	3.70e+2	2.96e+2	5.02e+2	7.23e+2	9.88e+1
Methylnaphthalene, 2-	91-57-6		1.48e+2	2.47e+2	3.70e+2	2.96e+2	5.02e+2	7.23e+2	9.88e+1
Methylphenol, 2-	95-48-7		1.85e+2	3.09e+2	4.63e+2	3.70e+2	6.28e+2	9.03e+2	1.23e+2
Methylphenol, 3/4-	NA		1.85e+2	3.09e+2	4.63e+2	3.70e+2	6.28e+2	9.03e+2	1.23e+2
N-Nitroso-di-n-propylamine	621-64-7		5.29e-4	8.82e-4	1.32e-3	1.06e-3	1.79e-3	2.58e-3	3.53e-4
N-Nitrosodimethylamine	62-75-9		7.26e-5	1.21e-4	1.82e-4	1.45e-4	2.46e-4	3.54e-4	4.84e-5
N-Nitrosodiphenylamine	86-30-6		7.56e-1	1.26e+0	1.89e+0	1.51e+0	2.56e+0	3.69e+0	5.04e-1
Nitroaniline, 2-	88-74-4		3.96e+1	6.60e+1	9.91e+1	7.93e+1	1.34e+2	1.93e+2	2.64e+1
Nitroaniline, 3-	99-09-2		3.33e+1	5.56e+1	8.33e+1	6.67e+1	1.13e+2	1.63e+2	2.22e+1

Table 3-2
Allowable Concentrations[1] in Paperboard (FDA Food-contact)
Baseline Comprehensive List of Chemicals

Semi-volatiles

Analyte	CAS No.	Adjusted for Migration[2]	Poly Coated Paperboard			Clay Coated/Uncoated Paperboard			All Paperboard
			AC- All Food Types (mg/kg)	AC- Aqueous Contact Only (mg/kg)	AC- Fatty Contact Only (mg/kg)	AC- All Food Types (mg/kg)	AC- Aqueous Contact Only (mg/kg)	AC- Fatty Contact Only (mg/kg)	AC-All Food Types (mg/kg)
bis(2-Chloroethyl)ether	111-44-4		3.37e-3	5.61e-3	8.42e-3	6.73e-3	1.14e-2	1.64e-2	2.24e-3

Volatiles

Analyte	CAS No.	Adjusted for Migration[2]	Poly Coated Paperboard			Clay Coated/Uncoated Paperboard			All Paperboard
			AC- All Food Types (mg/kg)	AC- Aqueous Contact Only (mg/kg)	AC- Fatty Contact Only (mg/kg)	AC- All Food Types (mg/kg)	AC- Aqueous Contact Only (mg/kg)	AC- Fatty Contact Only (mg/kg)	AC-All Food Types (mg/kg)
Benzene	71-43-2		1.28e-1	2.13e-1	3.19e-1	2.55e-1	4.33e-1	6.23e-1	8.51e-2
Bromobenzene	108-86-1		1.00e+2	1.67e+2	2.50e+2	2.00e+2	3.39e+2	4.88e+2	6.66e+1
Bromochloromethane	74-97-5		1.59e+2	2.65e+2	3.98e+2	3.19e+2	5.40e+2	7.77e+2	1.06e+2
Bromodichloromethane	75-27-4		5.97e-2	9.96e-2	1.49e-1	1.19e-1	2.02e-1	2.91e-1	3.98e-2
Bromoform	75-25-2		4.69e-1	7.81e-1	1.17e+0	9.38e-1	1.59e+0	2.29e+0	3.13e-1
Carbon tetrachloride	56-23-5		2.85e-2	4.75e-2	7.12e-2	5.70e-2	9.66e-2	1.39e-1	1.90e-2
Chlorobenzene	108-90-7		7.41e+1	1.23e+2	1.85e+2	1.48e+2	2.51e+2	3.61e+2	4.94e+1

Table 3-2
Allowable Concentrations[1] in Paperboard (FDA Food-contact)
Baseline Comprehensive List of Chemicals

Volatiles

			Poly Coated Paperboard			Clay Coated/Uncoated Paperboard			All Paperboard
Analyte	CAS No.	Adjusted for Migration[2]	AC- All Food Types (mg/kg)	AC- Aqueous Contact Only (mg/kg)	AC- Fatty Contact Only (mg/kg)	AC- All Food Types (mg/kg)	AC- Aqueous Contact Only (mg/kg)	AC- Fatty Contact Only (mg/kg)	AC-All Food Types (mg/kg)
Dichloroethane, 1,2- (Ethylene dichloride)	107-06-2		4.07e-2	6.78e-2	1.02e-1	8.14e-2	1.38e-1	1.99e-1	2.71e-2
Dichloroethene, 1,1-	75-35-4		6.17e-3	1.03e-2	1.54e-2	1.23e-2	2.09e-2	3.01e-2	4.12e-3
Dichloroethene, cis-1,2-	156-59-2		3.70e+1	6.17e+1	9.26e+1	7.41e+1	1.26e+2	1.81e+2	2.47e+1
Dichloroethene, trans-1, 2-	156-60-5		7.41e+1	1.23e+2	1.85e+2	1.48e+2	2.51e+2	3.61e+2	4.94e+1
Dichloropropane, 1,2-	78-87-5		5.45e-2	9.08e-2	1.36e-1	1.09e-1	1.85e-1	2.66e-1	3.63e-2
Dichloropropene, cis-1, 3-	10061-01-5		2.06e-2	3.43e-2	5.14e-2	4.12e-2	6.97e-2	1.00e-1	1.37e-2
Dichloropropene, trans-1,3-	10061-02-6		2.06e-2	3.43e-2	5.14e-2	4.12e-2	6.97e-2	1.00e-1	1.37e-2
Ethylbenzene	100-41-4		3.70e+2	6.17e+2	9.26e+2	7.41e+2	1.26e+3	1.81e+3	2.47e+2
Methylene chloride	75-09-2		4.94e-1	8.23e-1	1.23e+0	9.88e-1	1.67e+0	2.41e+0	3.29e-1
Propylbenzene, n-	103-65-1		2.24e+2	3.73e+2	5.59e+2	4.47e+2	7.58e+2	1.09e+3	1.49e+2
Styrene	100-42-5		7.41e+2	1.23e+3	1.85e+3	1.48e+3	2.51e+3	3.61e+3	4.94e+2
Tetrachloroethane, 1,1, 1,2-	630-20-6		1.42e-1	2.37e-1	3.56e-1	2.85e-1	4.83e-1	6.95e-1	9.50e-2

Table 3-2
Allowable Concentrations[1] in Paperboard (FDA Food-contact)
Baseline Comprehensive List of Chemicals

Notes:

[1] Allowable concentrations (AC) were calculated assuming a basis weight of 0.315 g/in2 (100 lb/1,000 ft2) as described in Part 3 of this report. Paperboard with a different basis weight will have different allowable concentrations. As basis weight increases, the allowable concentration decreases.
Input variables revised on November 7, 1997. Analysis revised January 21, 1998.

[2] Exposure estimates for chemicals indicated by an "M" were adjusted for migration based on results of food-simulating solvent extraction testing.

Table 3-3
Allowable Concentrations[1] in Paperboard (Cal. EPA Prop. 65)
Baseline Comprehensive List of Chemicals

PCBs

			Poly Coated Paperboard			Clay Coated/Uncoated Paperboard			All Paperboard
Analyte	CAS No.	Adjusted for Migration[2]	AC- All Food Types (mg/kg)	AC- Aqueous Contact Only (mg/kg)	AC- Fatty Contact Only (mg/kg)	AC- All Food Types (mg/kg)	AC- Aqueous Contact Only (mg/kg)	AC- Fatty Contact Only (mg/kg)	AC-All Food Types (mg/kg)
Aroclor-1016	12674-11-2		4.76e-3	7.94e-3	1.19e-2	9.52e-3	1.61e-2	2.32e-2	3.17e-3
Aroclor-1221	11104-28-2		4.76e-3	7.94e-3	1.19e-2	9.52e-3	1.61e-2	2.32e-2	3.17e-3
Aroclor-1232	11141-16-5		4.76e-3	7.94e-3	1.19e-2	9.52e-3	1.61e-2	2.32e-2	3.17e-3
Aroclor-1242	53469-21-9		4.76e-3	7.94e-3	1.19e-2	9.52e-3	1.61e-2	2.32e-2	3.17e-3
Aroclor-1248	12672-29-6		4.76e-3	7.94e-3	1.19e-2	9.52e-3	1.61e-2	2.32e-2	3.17e-3
Aroclor-1254	11097-69-1		4.76e-3	7.94e-3	1.19e-2	9.52e-3	1.61e-2	2.32e-2	3.17e-3
Aroclor-1260	11096-82-5		5.29e-3	8.82e-3	1.32e-2	1.06e-2	1.79e-2	2.58e-2	3.53e-3

Pesticides

			Poly Coated Paperboard			Clay Coated/Uncoated Paperboard			All Paperboard
Analyte	CAS No.	Adjusted for Migration[2]	AC- All Food Types (mg/kg)	AC- Aqueous Contact Only (mg/kg)	AC- Fatty Contact Only (mg/kg)	AC- All Food Types (mg/kg)	AC- Aqueous Contact Only (mg/kg)	AC- Fatty Contact Only (mg/kg)	AC-All Food Types (mg/kg)
Aldrin	309-00-2		2.12e-3	3.53e-3	5.29e-3	4.23e-3	7.17e-3	1.03e-2	1.41e-3

Table 3-3
Allowable Concentrations[1] in Paperboard (Cal. EPA Prop. 65)
Baseline Comprehensive List of Chemicals

Semi-volatiles

			Poly Coated Paperboard			Clay Coated/Uncoated Paperboard			All Paperboard
Analyte	CAS No.	Adjusted for Migration[2]	AC- All Food Types (mg/kg)	AC- Aqueous Contact Only (mg/kg)	AC- Fatty Contact Only (mg/kg)	AC- All Food Types (mg/kg)	AC- Aqueous Contact Only (mg/kg)	AC- Fatty Contact Only (mg/kg)	AC-All Food Types (mg/kg)
Benzidine	92-87-5		5.29e-5	8.82e-5	1.32e-4	1.06e-4	1.79e-4	2.58e-4	3.53e-5
Bis(2-ethylhexyl) Phthalate	117-81-7	M	1.65e+1	1.50e+2	1.86e+1	3.24e+1	3.06e+2	3.62e+1	1.10e+1
Dichlorobenzidine, 3,3'-	91-94-1		3.17e-2	5.29e-2	7.94e-2	6.35e-2	1.08e-1	1.55e-1	2.12e-2
Dinitrotoluene, 2,4-	121-14-2		1.06e-1	1.76e-1	2.65e-1	2.12e-1	3.59e-1	5.16e-1	7.05e-2
Hexachlorobenzene	118-74-1		2.12e-2	3.53e-2	5.29e-2	4.23e-2	7.17e-2	1.03e-1	1.41e-2
Hexachloroethane	67-72-1		1.06e+0	1.76e+0	2.65e+0	2.12e+0	3.59e+0	5.16e+0	7.05e-1
N-Nitroso-di-n-propylamine	621-64-7		5.29e-3	8.82e-3	1.32e-2	1.06e-2	1.79e-2	2.58e-2	3.53e-3
N-Nitrosodimethylamine	62-75-9		2.12e-3	3.53e-3	5.29e-3	4.23e-3	7.17e-3	1.03e-2	1.41e-3
N-Nitrosodiphenylamine	86-30-6		4.23e+0	7.05e+0	1.06e+1	8.47e+0	1.43e+1	2.06e+1	2.82e+0
Pentachlorophenol	87-86-5		2.12e+0	3.53e+0	5.29e+0	4.23e+0	7.17e+0	1.03e+1	1.41e+0
Trichlorophenol, 2,4,6-	88-06-2		5.29e-1	8.82e-1	1.32e+0	1.06e+0	1.79e+0	2.58e+0	3.53e-1
bis(2-Chloroethyl)ether	111-44-4		1.59e-2	2.65e-2	3.97e-2	3.17e-2	5.38e-2	7.74e-2	1.06e-2

Table 3-3
Allowable Concentrations[1] in Paperboard (Cal. EPA Prop. 65)
Baseline Comprehensive List of Chemicals

Volatiles

			Poly Coated Paperboard			Clay Coated/Uncoated Paperboard			All Paperboard
Analyte	CAS No.	Adjusted for Migration[2]	AC- All Food Types (mg/kg)	AC- Aqueous Contact Only (mg/kg)	AC- Fatty Contact Only (mg/kg)	AC- All Food Types (mg/kg)	AC- Aqueous Contact Only (mg/kg)	AC- Fatty Contact Only (mg/kg)	AC-All Food Types (mg/kg)
Vinyl chloride	75-01-4		1.59e-1	2.65e-1	3.97e-1	3.17e-1	5.38e-1	7.74e-1	1.06e-1

Notes:

[1] Allowable concentrations (AC) were calculated assuming a basis weight of 0.315 g/in2 (100 lb/1,000 ft2) as described in Part 3 of this report. Paperboard with a different basis weight will have different allowable concentrations. As basis weight increases, the allowable concentration decreases.
Input variables revised on November 7, 1997. Analysis revised on January 21, 1998.

[2] Exposure estimates for chemicals indicated by an "M" were adjusted for migration based on results of food-simulating solvent extraction testing.

Table 3-4
Migration-adjusted Allowable Concentrations[1] in Paperboard (FDA Food-contact)
Focus List of Chemicals

PAHs

		Poly Coated Paperboard			Clay Coated/Uncoated Paperboard			All Paperboard
Analyte	CAS No.	AC- All Food Types (mg/kg)	AC- Aqueous Contact Only (mg/kg)	AC- Fatty Contact Only (mg/kg)	AC- All Food Types (mg/kg)	AC- Aqueous Contact Only (mg/kg)	AC- Fatty Contact Only (mg/kg)	AC-All Food Types (mg/kg)
Benzo(k)fluoranthene	207-08-9	6.79e-2	6.88e-1	7.53e-2	1.33e-1	1.40e+0	1.47e-1	4.52e-2
Chrysene	218-01-9	7.31e-1	1.67e+1	7.64e-1	1.43e+0	3.40e+1	1.49e+0	4.87e-1
Dibenz(a,h)anthracene	53-70-3	4.54e-3	4.60e-2	5.03e-3	8.89e-3	9.36e-2	9.82e-3	3.02e-3
Fluoranthene	206-44-0	4.65e-1	6.19e+0	5.02e-1	9.09e-1	1.26e+1	9.80e-1	3.10e-1
Fluorene	86-73-7	2.15e+3	6.01e+3	3.34e+3	4.25e+3	1.22e+4	6.51e+3	1.43e+3
Indeno(1,2,3-cd)pyrene	193-39-5	6.31e-2	2.73e-1	8.20e-2	1.24e-1	5.56e-1	1.60e-1	4.20e-2
Naphthalene	91-20-3	1.31e+3	1.87e+3	4.32e+3	2.62e+3	3.80e+3	8.43e+3	8.70e+2
Phenanthrene	85-01-8	1.42e+3	9.96e+3	1.66e+3	2.79e+3	2.02e+4	3.23e+3	9.47e+2
Pyrene	129-00-0	5.00e+2	1.14e+4	5.23e+2	9.77e+2	2.32e+4	1.02e+3	3.33e+2

Table 3-5
Migration-adjusted Allowable Concentrations[1] in Paperboard (Cal. EPA Prop. 65)
Focus List of Chemicals

Semi-volatiles

		Poly Coated Paperboard			Clay Coated/Uncoated Paperboard			All Paperboard
Analyte	CAS No.	AC- All Food Types (mg/kg)	AC- Aqueous Contact Only (mg/kg)	AC- Fatty Contact Only (mg/kg)	AC- All Food Types (mg/kg)	AC- Aqueous Contact Only (mg/kg)	AC- Fatty Contact Only (mg/kg)	AC-All Food Types (mg/kg)
Bis(2-ethylhexyl) Phthalate	117-81-7	1.65e+1	1.50e+2	1.86e+1	3.24e+1	3.06e+2	3.62e+1	1.10e+1

Note:

[1] Allowable concentrations (AC) were calculated assuming a basis weight of 0.315 g/in2 (100 lb/1,000 ft2) as described in Part 3 of this report. Paperboard with a different basis weight will have different allowable concentrations. As basis weight increases, the allowable concentration decreases.
Exposure estimates were adjusted for migration based on results of food-simulating solvent extraction testing.
Input variables revised on November 7, 1997. Analysis revised on January 21, 1998.

Table 3-6
Sources of Toxicity Values for Calculation of Conservative Allowable Concentrations in Food-contact Paperboard

PAHs

Analyte	CAS No.	Toxicity Parameter	Reference
Fluoranthene	206-44-0	CSF	FDA
Fluorene	86-73-7	RfD	IRIS
Indeno(1,2,3-cd)pyrene	193-39-5	CSF	EPA
Naphthalene	91-20-3	RfD	IRIS-A
Phenanthrene	85-01-8	RfD	IRIS-A
Pyrene	129-00-0	RfD	IRIS

PCBs

Analyte	CAS No.	Toxicity Parameter	Reference
Aroclor-1016	12674-11-2	NSRL	Prop 65
Aroclor-1221	11104-28-2	NSRL	Prop 65
Aroclor-1232	11141-16-5	NSRL	Prop 65
Aroclor-1242	53469-21-9	NSRL	Prop 65
Aroclor-1248	12672-29-6	NSRL	Prop 65
Aroclor-1254	11097-69-1	NSRL	Prop 65
Aroclor-1260	11096-82-5	NSRL	Prop 65

Pesticides

Analyte	CAS No.	Toxicity Parameter	Reference
Aldrin	309-00-2	CSF	IRIS
BHC, Delta-	319-86-8	CSF	IRIS
BHC, alpha-	319-84-6	CSF	IRIS
BHC, beta-	319-85-7	CSF	IRIS
BHC, gamma- (Lindane)	58-89-9	NSRL	Prop 65
Chlordane, alpha-	5103-71-9	LD50	RTECS
Chlordane, gamma-	57-74-9	LD50	RTECS

Table 3-6
Sources of Toxicity Values for Calculation of Conservative Allowable Concentrations in Food-contact Paperboard

Semi-volatiles

Analyte	CAS No.	Toxicity Parameter	Reference
Chlorophenol, 2-	95-57-8	RfD	IRIS
Di-n-butyl Phthalate	84-74-2	RfD	IRIS
Di-n-octyl Phthalate	117-84-0	RfD	HEAST
Dibenzofuran	132-64-9	RfD	HEAST
Dichlorobenzene, 1,2-	95-50-1	RfD	IRIS
Dichlorobenzene, 1,3-	541-73-1	LD50	RTECS
Dichlorobenzene, 1,4-	106-46-7	CSF	HEAST
Dichlorobenzidine, 3,3'-	91-94-1	CSF	IRIS
Dichlorophenol, 2,4-	120-83-2	RfD	IRIS
Diethyl Phthalate	84-66-2	RfD	IRIS
Dimethyl Phthalate	131-11-3	RfD	IRIS-A
Dimethylphenol, 2,4-	105-67-9	RfD	IRIS
Dinitro-2-methylphenol, 4,6-	534-52-1	LD50	RTECS
Dinitrophenol, 2,4-	51-28-5	LD50	RTECS
Dinitrotoluene, 2,4-	121-14-2	NSRL	Prop 65
Dinitrotoluene, 2,6-	606-20-2	CSF	IRIS
Hexachlorobenzene	118-74-1	CSF	IRIS
Hexachlorobutadiene	87-68-3	CSF	IRIS
Hexachlorocyclopentadiene	77-47-4	RfD	IRIS
Hexachloroethane	67-72-1	CSF	IRIS
Isophorone	78-59-1	CSF	IRIS
Methylnaphthalene, 1-	90-12-0	RfD	EPA
Methylnaphthalene, 2-	91-57-6	RfD	EPA
Methylphenol, 2-	95-48-7	RfD	IRIS
Methylphenol, 3/4-	NA	RfD	IRIS
N-Nitroso-di-n-propylamine	621-64-7	CSF	IRIS
N-Nitrosodimethylamine	62-75-9	CSF	IRIS
N-Nitrosodiphenylamine	86-30-6	CSF	IRIS
Nitroaniline, 2-	88-74-4	LD50	RTECS

Table 3-6
Sources of Toxicity Values for Calculation of Conservative Allowable Concentrations in Food-contact Paperboard

Volatiles

Analyte	CAS No.	Toxicity Parameter	Reference
Chlorobenzene	108-90-7	RfD	IRIS
Chloroethane (Ethyl chloride)	75-00-3	NSRL	Prop 65
Chloroform	67-66-3	CSF	IRIS
Chloromethane	74-87-3	CSF	HEAST
Chlorotoluene, 2-	95-49-8	RfD	IRIS
Chlorotoluene, 4-	106-43-4	LD50	RTECS
Cumene	98-82-8	RfD	IRIS
Cymene, p-	99-87-6	LD50	RTECS
Dibromo-3-chloropropane, 1,2-	96-12-8	AIL	Prop 65
Dibromochloromethane	124-48-1	CSF	IRIS
Dibromoethane, 1,2-	106-93-4	CSF	IRIS
Dibromomethane	74-95-3	LD50	RTECS
Dichlorodifluoromethane	75-71-8	RfD	IRIS
Dichloroethane, 1,1-	75-34-3	NSRL	Prop 65
Dichloroethane, 1,2- (Ethylene dichloride)	107-06-2	CSF	IRIS
Dichloroethene, 1,1-	75-35-4	CSF	IRIS
Dichloroethene, cis-1,2-	156-59-2	RfD	HEAST
Dichloroethene, trans-1,2-	156-60-5	RfD	IRIS
Dichloropropane, 1,2-	78-87-5	CSF	HEAST
Dichloropropene, cis-1,3-	10061-01-5	CSF	HEAST
Dichloropropene, trans-1,3-	10061-02-6	CSF	HEAST
Ethylbenzene	100-41-4	RfD	IRIS
Methylene chloride	75-09-2	CSF	IRIS
Propylbenzene, n-	103-65-1	LD50	RTECS
Styrene	100-42-5	LD50	RTECS
Tetrachloroethane, 1,1,1,2-	630-20-6	CSF	IRIS
Tetrachloroethane, 1,1,2,2-	79-34-5	CSF	IRIS
Tetrachloroethene	127-18-4	RfD	IRIS

Table 3-7
Percent Migration Values
Used in Calculation of Allowable Concentrations

PAHs

Analyte	CAS No.	Aqueous Percent Migration[1]	Fatty Percent Migration[1]
Fluoranthene	206-44-0	2.85	52.67
Fluorene	86-73-7	4.11	11.10
Indeno(1,2,3-cd)pyrene	193-39-5	5.16	25.78
Naphthalene	91-20-3	9.90	6.43
Phenanthrene	85-01-8	1.86	16.77
Pyrene	129-00-0	1.62	53.14

PCBs

Analyte	CAS No.	Aqueous Percent Migration[1]	Fatty Percent Migration[1]
Aroclor-1016	12674-11-2	100.00	100.00
Aroclor-1221	11104-28-2	100.00	100.00
Aroclor-1232	11141-16-5	100.00	100.00
Aroclor-1242	53469-21-9	100.00	100.00
Aroclor-1248	12672-29-6	100.00	100.00
Aroclor-1254	11097-69-1	100.00	100.00
Aroclor-1260	11096-82-5	100.00	100.00

Pesticides

Analyte	CAS No.	Aqueous Percent Migration[1]	Fatty Percent Migration[1]
Aldrin	309-00-2	100.00	100.00
BHC, Delta-	319-86-8	100.00	100.00
BHC, alpha-	319-84-6	100.00	100.00
BHC, beta-	319-85-7	100.00	100.00
BHC, gamma- (Lindane)	58-89-9	100.00	100.00
Chlordane, alpha-	5103-71-9	100.00	100.00
Chlordane, gamma-	57-74-9	100.00	100.00
DDD, 4,4'-	72-54-8	100.00	100.00

Table 3-7
Percent Migration Values
Used in Calculation of Allowable Concentrations

Semi-volatiles

Analyte	CAS No.	Aqueous Percent Migration[1]	Fatty Percent Migration[1]
Di-n-butyl Phthalate	84-74-2	4.84	34.96
Di-n-octyl Phthalate	117-84-0	4.69	57.01
Dibenzofuran	132-64-9	100.00	100.00
Dichlorobenzene, 1,2-	95-50-1	100.00	100.00
Dichlorobenzene, 1,3-	541-73-1	100.00	100.00
Dichlorobenzene, 1,4-	106-46-7	100.00	100.00
Dichlorobenzidine, 3,3'-	91-94-1	100.00	100.00
Dichlorophenol, 2,4-	120-83-2	100.00	100.00
Diethyl Phthalate	84-66-2	80.87	30.76
Dimethyl Phthalate	131-11-3	80.87	30.76
Dimethylphenol, 2,4-	105-67-9	100.00	100.00
Dinitro-2-methylphenol, 4,6-	534-52-1	100.00	100.00
Dinitrophenol, 2,4-	51-28-5	100.00	100.00
Dinitrotoluene, 2,4-	121-14-2	100.00	100.00
Dinitrotoluene, 2,6-	606-20-2	100.00	100.00
Hexachlorobenzene	118-74-1	100.00	100.00
Hexachlorobutadiene	87-68-3	100.00	100.00
Hexachlorocyclopentadiene	77-47-4	100.00	100.00
Hexachloroethane	67-72-1	100.00	100.00
Isophorone	78-59-1	100.00	100.00
Methylnaphthalene, 1-	90-12-0	100.00	100.00
Methylnaphthalene, 2-	91-57-6	100.00	100.00
Methylphenol, 2-	95-48-7	100.00	100.00
Methylphenol, 3/4-	NA	100.00	100.00
N-Nitroso-di-n-propylamine	621-64-7	100.00	100.00
N-Nitrosodimethylamine	62-75-9	100.00	100.00
N-Nitrosodiphenylamine	86-30-6	100.00	100.00
Nitroaniline, 2-	88-74-4	100.00	100.00
Nitroaniline, 3-	99-09-2	100.00	100.00

Table 3-7
Percent Migration Values
Used in Calculation of Allowable Concentrations

Volatiles

Analyte	CAS No.	Aqueous Percent Migration[1]	Fatty Percent Migration[1]
Chloroethane (Ethyl chloride)	75-00-3	100.00	100.00
Chloroform	67-66-3	100.00	100.00
Chloromethane	74-87-3	100.00	100.00
Chlorotoluene, 2-	95-49-8	100.00	100.00
Chlorotoluene, 4-	106-43-4	100.00	100.00
Cumene	98-82-8	100.00	100.00
Cymene, p-	99-87-6	100.00	100.00
Dibromo-3-chloropropane, 1,2-	96-12-8	100.00	100.00
Dibromochloromethane	124-48-1	100.00	100.00
Dibromoethane, 1,2-	106-93-4	100.00	100.00
Dibromomethane	74-95-3	100.00	100.00
Dichlorodifluoromethane	75-71-8	100.00	100.00
Dichloroethane, 1,1-	75-34-3	100.00	100.00
Dichloroethane, 1,2- (Ethylene dichloride)	107-06-2	100.00	100.00
Dichloroethene, 1,1-	75-35-4	100.00	100.00
Dichloroethene, cis-1,2-	156-59-2	100.00	100.00
Dichloroethene, trans-1,2-	156-60-5	100.00	100.00
Dichloropropane, 1,2-	78-87-5	100.00	100.00
Dichloropropene, cis-1,3-	10061-01-5	100.00	100.00
Dichloropropene, trans-1,3-	10061-02-6	100.00	100.00
Ethylbenzene	100-41-4	100.00	100.00
Methylene chloride	75-09-2	100.00	100.00
Propylbenzene, n-	103-65-1	100.00	100.00
Styrene	100-42-5	100.00	100.00
Tetrachloroethane, 1,1,1,2-	630-20-6	100.00	100.00
Tetrachloroethane, 1,1,2,2-	79-34-5	100.00	100.00
Tetrachloroethene	127-18-4	100.00	100.00
Toluene	108-88-3	100.00	100.00
Trichloroethane, 1,1,1-	71-55-6	100.00	100.00

may be drafted by the mill management concerning the safety of use of paperboard made using recycled fiber in contact with aqueous or dry foods.

III. FATTY FOOD-CONTACT USE

ENVIRON's safety assessment provides health-risk-based allowable concentrations ("ACs") in paperboard as presented in Table 2-1 or Tables 3-2, 3-3, 3-4, and 3-5. The Protocol (Part 2) provides a means for obtaining comparative chemical analysis results. If a mill makes paperboard that is used **for only fatty food** contact, then the ACs in the columns labeled **fatty food contact** should be used. A member mill, therefore, may compare its results using the monitoring protocol to the appropriate, adjusted allowable concentration for fatty food contact use. Based on the outcome of that comparison, a statement may be drafted by the mill management concerning the safety of use of paperboard made using recycled fiber in contact with fatty foods.

IV. ALL FOOD-CONTACT USE

ENVIRON's safety assessment provides health-risk-based allowable concentrations ("ACs") in paperboard as presented in Table 2-1 or Tables 3-2, 3-3, 3-4, and 3-5. The Protocol (Part 2) provides a means for obtaining comparative chemical analysis results. If a mill makes paperboard that is used for all food contact uses (that is, for aqueous and fatty food contact), then the ACs in the columns labeled **all food contact** should be used. A member mill, therefore, may compare its results using the monitoring protocol to the appropriate, adjusted allowable concentration for fatty food contact use. Based on the outcome of that comparison, a statement may be drafted by the mill management concerning the safety of use of its paperboard made using recycled fiber in contact with all food types.

Document· 657276 v 2

I. INTRODUCTION

The purpose of this section is to assist member mills in communicating to customers and consumers the safety of food-contact paperboard made from recycled fiber. Each member mill will have to make the ultimate determination of the appropriateness of the language chosen for their letters. ENVIRON's language provided herein is only a guide for the mill management and its technical and legal counsel but is consistent with ENVIRON's safety assessment:

> *Using generally accepted human-health-risk characterization procedures for assessing potential chemical exposures through ingestion of foods in contact with paperboard made from recycled fiber, we have examined the existing data on the potential for the following chemical substances to be present in that paperboard packaging, migrate to food, and cause adverse human health effects. Based on this safety assessment, ingestion of food in contact with this paperboard that has been produced using Good Manufacturing Practices and containing no more than the amounts of the chemical constituents as listed in Table 2-1 or Tables 3-2, 3-3, 3-4, and 3-5 as applicable and appropriate, does not pose a human health risk.*

II. AQUEOUS AND DRY FOOD-CONTACT USE

ENVIRON's safety assessment provides various health-risk-based allowable concentrations ("ACs") in paperboard for several different paperboard types, food types, and applicable regulatory frameworks as presented in Table 2-1 or Tables 3-2, 3-3, 3-4, and 3-5. If a mill makes paperboard that is used **for only aqueous or dry food** contact, then the ACs in the columns labeled **aqueous food contact** should be used. The mill management must select the appropriate allowable concentration based on its knowledge of the product and its intended end-use. The Protocol (Part 2) provides a means for obtaining comparative chemical analysis results. A member mill, therefore, may compare its results, using the Protocol, to the appropriate, allowable concentration for aqueous or dry food contact use. Based on the outcome of that comparison, a statement

#24

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD APRIL 2003

DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			46119497			
01	1,500	1,210	46124904	0.54070	6,764	5,456
02	1,500	640	46131866	0.69620	8,709	3,716
03	1,080	1,370	46140664	0.87980	7,925	10,052
04	1,255	870	46146423	0.57590	6,028	4,179
05	1,300	750	46152323	0.59000	6,397	3,690
06	1,310	745	46157460	0.51370	5,612	3,192
07	1,415	830	46163132	0.56720	6,694	3,926
08	1,435	1,340	46170277	0.71450	8,551	7,985
09	1,280	2,360	46178407	0.81300	8,679	16,002
10	1,235	920	46184194	0.57870	5,961	4,440
11	1,560	840	46189941	0.57470	7,477	4,026
12	1,680	1,000	46195822	0.58810	8,240	4,905
13	1,545	825	46200823	0.50010	6,444	3,441
14	1,380	949	46206713	0.58900	6,779	4,662 *
15	1,500	980	46212383	0.56700	7,093	4,634
16	1,590	900	46217889	0.55060	7,301	4,133
17	1,375	1,060	46225415	0.75260	8,630	6,653
18	1,470	1,250	46231457	0.60420	7,407	6,299
19	1,475	600	46237347	0.58900	7,246	2,947
20		1,060	46243439	0.60920		5,386
21		980	46248861	0.54220		4,432
22		1,000	46254682	0.58210		4,855
23		460	46261493	0.68110		2,613
24						
25						
26						
27						
28						
29						
30						
TOTAL				14.19960	137,937	121,624
AVG.	1,415	997		0.61737	7,260	5,288

APPROVED BY:_____ DATE:_____

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - April 2003

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD March 2003

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			45890198				
01	1,405	930	45896418	0.62200	7,288	4,824	
02	1,365	680	45903084	0.66660	7,589	3,780	
03	1,170	820	45909638	0.65540	6,395	4,482	
04	1,155	1,010	45916026	0.63880	6,153	5,381	
05	910	2,320	45934249	1.82230	13,830	35,259	
06	730	1,480	45940463	0.62140	3,783	7,670	
07	1,215	1,180	45946505	0.60420	6,122	5,946	
08	1,395	1,110	45953219	0.67140	7,811	6,215	
09	1,425	1,095	45959581	0.63620	7,561	5,810	
10	1,530	1,260	45964905	0.53240	6,794	5,595	
11	1,500	2,190	45979996	1.50910	18,879	27,563	
12	720	2,120	45998239	1.82430	10,955	32,255	
13	1,227	1,320	46005169	0.69300	7,092	7,629	*
14	1,227	1,320	46011086	0.59170	6,055	6,514	*
15	1,560	810	46019360	0.82740	10,765	5,589	
16	1,240	1,308	46025469	0.61090	6,318	6,664	*
17	1,240	1,308	46031177	0.57080	5,903	6,227	*
18	1,440	1,350	46036425	0.52480	6,303	5,909	
19	1,770	840	46042361	0.59360	8,763	4,159	
20	1,500	1,050	46048614	0.62530	7,823	5,476	
21	1,405	860	46055878	0.72640	8,512	5,210	
22	1,285	1,210	46062286	0.64080	6,867	6,467	
23	1,262	620	46069037	0.67510	7,105	3,491	
24	1,355	1,120	46075289	0.62520	7,065	5,840	
25	1,500	1,410	46083413	0.81240	10,163	9,553	
26	1,350	990	46089026	0.56130	6,320	4,634	
27	1,416	1,176	46094593	0.55670	6,574	5,460	*
28	1,470	827	46100914	0.63210	7,749	4,360	
29	1,413	1,047	46106433	0.55190	6,504	4,819	*
30	1,530	975	46112584	0.61510	7,849	5,002	
31	1,440	890	46119497	0.69130	8,302	5,131	
TOTAL				22.92990	245,192	252,915	
AVG.	1,327	1,181		0.73967	7,909	8,159	

APPROVED BY:_____ DATE:_____

* Denotes 12 day average for Suspended Solids and BOD.

File Name Billing - March 2003

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD FEBRUARY 2003

DAYS 28

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			45714046				
01	1,365	760	45720276	0.62300	7,092	3,949	
02	1,485	580	45727440	0.71640	8,873	3,465	
03	1,500	750	45733541	0.61010	7,632	3,816	
04	1,290	610	45741157	0.76160	8,194	3,875	
05	1,320	780	45747624	0.64670	7,119	4,207	
06	945	1,410	45753182	0.55580	4,380	6,536	
07	1,155	1,180	45759524	0.63420	6,109	6,241	
08	1,180	920	45766172	0.66480	6,542	5,101	
09	1,345	810	45772293	0.61210	6,866	4,135	
10	1,400	860	45779537	0.72440	8,458	5,196	
11	1,380	1,210	45785461	0.59240	6,818	5,978	
12	1,500	930	45791434	0.59730	7,472	4,633	
13	1,380	1,110	45799080	0.76460	8,800	7,078	
14	1,560	1,160	45804293	0.52130	6,782	5,043	
15	1,590	1,040	45810002	0.57090	7,570	4,952	
16	1,635	995	45816098	0.60960	8,312	5,059	
17	1,740	1,240	45822602	0.65040	9,438	6,726	
18	1,412	1,064	45827657	0.50550	5,953	4,486	*
19	1,560	970	45835289	0.76320	9,930	6,174	
20	1,380	1,010	45839898	0.46090	5,305	3,882	
21	1,355	1,340	45845495	0.55970	6,325	6,255	
22	1,230	1,090	45852579	0.70840	7,267	6,440	
23	1,258	1,445	45858739	0.61600	6,463	7,424	
24	1,460	1,116	45865423	0.66840	8,139	6,221	*
25	1,370	1,550	45871954	0.65310	7,462	8,443	
26	1,380	960	45878278	0.63240	7,278	5,063	
27	1,410	1,390	45885018	0.67400	7,926	7,813	
28	1,255	1,010	45890198	0.51800	5,422	4,363	
TOTAL				17.61520	203,929	152,554	
AVG.	1,387	1,046		0.62911	7,283	5,448	

APPROVED BY:_____DATE:_____

* Denotes 12 day average for Suspended Solids and BOD.

File Name Billing - February 2003

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD January 2003

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			45516534				
01	1,475	890	45522993	0.64590	7,946	4,794	
02	1,309	986	45529370	0.63770	6,962	5,244	*
03	1,400	1,020	45536792	0.74220	8,666	6,314	
04	1,235	1,460	45542905	0.61130	6,296	7,443	
05	1,233	1,028	45549169	0.62640	6,441	5,370	*
06	1,460	1,320	45555646	0.64770	7,887	7,130	
07	1,310	1,040	45562333	0.66870	7,306	5,800	
08	1,465	1,340	45569259	0.69260	8,462	7,740	
09	1,135	1,020	45575484	0.62250	5,893	5,295	
10	1,390	760	45582431	0.69470	8,053	4,403	
11	1,455	870	45588495	0.60640	7,358	4,400	
12	1,382	905	45595772	0.72770	8,387	5,492	
13	1,330	660	45603757	0.79850	8,857	4,395	
14	1,270	760	45611577	0.78200	8,283	4,957	
15	1,290	880	45618227	0.66500	7,154	4,881	
16	1,045	820	45622667	0.44400	3,870	3,036	
17	1,600	1,210	45628567	0.59000	7,873	5,954	
18	1,285	980	45635802	0.72350	7,754	5,913	
19	1,365	1,220	45643337	0.75350	8,578	7,667	
20	1,460	1,290	45648810	0.54730	6,664	5,888	
21	1,500	870	45654410	0.56000	7,006	4,063	
22	1,475	690	45660263	0.58530	7,200	3,368	
23	1,500	1,420	45666290	0.60270	7,540	7,138	
24	1,435	1,570	45671004	0.47140	5,642	6,172	
25	1,395	1,420	45677834	0.68300	7,946	8,089	
26	1,332	1,445	45684438	0.66040	7,336	7,959	
27	1,404	1,156	45690533	0.60950	7,137	5,876	*
28	1,404	1,156	45695700	0.51670	6,050	4,982	*
29	1,470	830	45701756	0.60560	7,425	4,192	
30	1,440	880	45707896	0.61400	7,374	4,506	
31	1,530	860	45714046	0.61500	7,848	4,411	
TOTAL				19.75120	227,193	172,875	
AVG.	1,380	1,057		0.63714	7,329	5,577	

APPROVED BY: Mike Adams **DATE:** 2/7/03

*** Denotes 12 day average for Suspended Solids and BOD.**

$ 68,163.05

File Name: Billing - January 2003

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD DECEMBER 2002

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			45324912				
01	1,532	1,090	45330747	0.58350	7,455	5,304	
02	1,555	970	45336164	0.54170	7,025	4,382	
03	1,490	1,050	45341213	0.50490	6,274	4,421	
04	1,620	1,220	45346144	0.49310	6,662	5,017	
05	1,650	880	45351946	0.58020	7,984	4,258	
06	1,800	1,110	45356550	0.46040	6,912	4,262	
07	1,710	1,510	45361659	0.51090	7,286	6,434	
08	1,095	1,235	45373652	1.19930	10,952	12,353	
09	995	1,000	45380655	0.70030	5,811	5,841	
10	1,572	1,118	45386504	0.58490	7,668	5,454	*
11	1,380	1,520	45393214	0.67100	7,723	8,506	
12	1,405	1,910	45397836	0.46220	5,416	7,363	
13	1,590	1,060	45402958	0.51220	6,792	4,528	
14	1,503	1,176	45407757	0.47990	6,016	4,707	*
15	1,503	1,176	2 Day Avg	0.51325	6,434	5,034	*
16	1,503	1,176	45418022	0.51325	6,434	5,034	*
17	1,440	1,140	45423525	0.55030	6,609	5,232	
18	1,500	660	45429680	0.61550	7,700	3,388	
19	1,710	1,390	45433797	0.41170	5,871	4,773	
20	1,490	980	45440438	0.66410	8,253	5,428	
21	1,680	1,100	45445851	0.54130	7,584	4,966	
22	1,402	1,090	45456711	1.08600	12,698	9,872	
23	105	220	45461698	0.49870	437	915	
24	105	220	45470462	0.87640	767	1,608	@
25	105	220	2 Day Avg	0.54945	481	1,008	@
26	608	730	45481451	0.54945	2,786	3,345	
27	1,398	1,118	45488405	0.69540	8,108	6,484	*
28	1,145	1,480	45494969	0.65640	6,268	8,102	
29	1,190	1,275	45501621	0.66520	6,602	7,073	
30	1,210	820	45509429	0.78080	7,879	5,340	
31	1,390	920	45516534	0.71050	8,237	5,452	
					47,973		
TOTAL				19.16220	203,125	165,883	
AVG.	1,303	1,050		0.61814	6,552	5,351	

APPROVED BY:_____ DATE:_____

* Denotes 12 day average for Suspended Solids and BOD.

@ Denotes 2 day average Flow.

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD **NOVEMBER** **2002**

 # DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			45156341			
01	1,590	947	45161712	0.53710	7,122	4,242
02	1,620	1,050	45167227	0.55150	7,451	4,829
03	1,452	765	45173242	0.60150	7,284	3,838
04	1,530	910	45178403	0.51610	6,586	3,917
05	1,620	810	45184100	0.56970	7,697	3,849
06	1,500	1,030	45190955	0.68550	8,576	5,889
07	1,410	1,170	45195071	0.41160	4,840	4,016
08	1,340	880	45200225	0.51540	5,760	3,783
09	1,260	810	45208293	0.80680	8,478	5,450
10	1,450	1,160	45213715	0.54220	6,557	5,245
11	1,370	490	45219573	0.58580	6,693	2,394
12	1,305	505	45226436	0.68630	7,469	2,890
13	1,500	650	45230950	0.45140	5,647	2,447
14	1,620	1,140	45235988	0.50380	6,807	4,790
15	1,380	1,150	45241701	0.57130	6,575	5,479
16	1,440	904	45247229	0.55280	6,639	4,168 *
17	1,440	904	45252370	0.51410	6,174	3,876 *
18	1,440	904	45258652	0.62820	7,544	4,736 *
19	1,530	740	45264439	0.57870	7,384	3,572
20	1,410	1,190	45271221	0.67820	7,975	6,731
21	1,395	1,150	45275620	0.43990	5,118	4,219
22	1,500	1,380	45282033	0.64130	8,023	7,381
23	1,530	880	45286743	0.47100	6,010	3,457
24	1,620	1,090	45292523	0.57800	7,809	5,254
25	1,710	1,300	45297488	0.49650	7,081	5,383
26	1,560	1,240	45303737	0.62490	8,130	6,462
27	1,505	1,220	45309506	0.57690	7,241	5,870
28	1,650	1,100	45314660	0.51540	7,092	4,728
29	1,770	1,270	45319374	0.47140	6,959	4,993
30	1,650	1,130	45324912	0.55380	7,621	5,219
TOTAL				16.85710	210,343	139,108
AVG.	1,503	996		0.56190	7,011	4,637

APPROVED BY:_____**DATE:**_____

*** Denotes 12 day average for Suspended Solids and BOD.**

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD OCTOBER 2002

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			44957613				
01	1,710	1,160	44964510	0.68970	9,836	6,672	
02	1,830	1,340	44971672	0.71620	10,931	8,004	
03	1,400	1,630	44976719	0.50470	5,893	6,861	
04	1,145	1,190	44982160	0.54410	5,196	5,400	
05	1,285	630	44988340	0.61800	6,623	3,247	
06	1,530	1,340	44995544	0.72040	9,192	8,051	
07	1,680	1,190	45001614	0.60700	8,505	6,024	
08	1,710	1,790	45007702	0.60880	8,682	9,089	
09	1,470	1,390	45013382	0.56800	6,964	6,585	
10	1,650	1,400	45019741	0.63590	8,751	7,425	
11	1,580	1,334	45026712	0.69710	9,186	7,756	*
12	1,710	1,090	45034492	0.77800	11,095	7,072	
13	1,440	1,535	45040015	0.55230	6,633	7,070	
14	1,470	1,010	45047353	0.73380	8,996	6,181	
15	1,240	1,290	45055297	0.79440	8,215	8,547	
16	1,425	1,110	45061565	0.62680	7,449	5,803	
17	1,490	1,254	45066132	0.45670	5,675	4,776	*
18	1,490	1,254	45072754	0.66220	8,229	6,926	*
19	1,400	1,700	45078908	0.61540	7,185	8,725	
20	1,378	835	45084991	0.60830	6,991	4,236	
21	1,500	1,190	45090880	0.58890	7,367	5,845	
22	1,208	760	45097001	0.61210	6,167	3,880	
23	1,220	1,580	45104553	0.75520	7,684	9,951	
24	1,365	750	45110145	0.55920	6,366	3,498	
25	1,335	680	45116579	0.64340	7,164	3,649	
26	1,270	710	45125713	0.91340	9,675	5,409	
27	1,110	2,395	45135008	0.92950	8,605	18,566	
28	1,360	910	45139923	0.49150	5,575	3,730	
29	1,320	1,084	45145458	0.55350	6,093	5,004	*
30	1,710	1,270	45150801	0.53430	7,620	5,659	
31	1,680	1,040	45156341	0.55400	7,762	4,805	
TOTAL				19.87280	240,305	204,445	
AVG.	1,455	1,221		0.64106	7,752	6,595	

APPROVED BY:_____ DATE:_____

* Denotes 12 day average for Suspended Solids and BOD.

$ 72,482.75

File Name: Billing - October 2002.xls

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD **SEPTEMBER** **2002**

 # DAYS **30**

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			44776524			
01	1,755	1,090	44782262	0.57380	8,399	5,216
02	1,980	1,100	44787706	0.54440	8,990	4,994
03	1,950	1,530	44792754	0.50480	8,210	6,441
04	1,830	1,300	44798494	0.57400	8,761	6,223
05	1,530	890	44804111	0.56170	7,167	4,169
06	1,744	1,397	44809904	0.57930	8,426	6,749 *
07	2,010	1,500	44815955	0.60510	10,144	7,570
08	1,680	1,910	44823865	0.79100	11,083	12,600
09	1,590	1,490	44829799	0.59340	7,869	7,374
10	1,620	1,400	44835366	0.55670	7,521	6,500
11	1,530	1,000	44842550	0.71840	9,167	5,991
12	1,370	1,230	44848482	0.59320	6,778	6,085
13	1,485	1,190	44854665	0.61830	7,658	6,136
14	1,500	1,170	44861088	0.64230	8,035	6,267
15	1,670	1,291	44866271	0.51830	7,219	5,581 *
16	1,830	1,400	44872073	0.58020	8,855	6,774
17	1,654	1,321	44878669	0.65960	9,099	7,267 *
18	1,830	1,610	44884007	0.53380	8,147	7,168
19	1,590	900	44889942	0.59350	7,870	4,455
20	1,650	1,320	44895429	0.54870	7,551	6,041
21	1,345	1,480	44901688	0.62590	7,021	7,726
22	1,605	1,280	44908004	0.63160	8,454	6,742
23	1,590	1,750	44914584	0.65800	8,725	9,604
24	1,210	550	44921810	0.72260	7,292	3,315
25	1,550	1,258	44927500	0.56900	7,355	5,970 *
26	1,550	1,258	44933862	0.63620	8,224	6,675 *
27	1,550	1,258	44940183	0.63210	8,171	6,632 *
28	1,650	1,370	44945334	0.51510	7,088	5,885
29	1,710	1,325	44951691	0.63570	9,066	7,025
30	1,596	1,304	44957613	0.59220	7,883	6,440 *
					45,308	45,308
TOTAL			48	18.10890	246,227	195,616
AVG.	1,638	1,296		0.60363	8,208	6,521

12,800 ~~[illegible]~~ ~~[illegible]~~ 9,594

~~[illegible]~~ 1,422 ppm ~~[illegible]~~ # ~~[illegible]~~ ppm ave 1,066

5,400

APPROVED BY:_____ **DATE:**_____ $ 65,000

23,964.46
12,475.00
21,096.50
13,527.72
73,931.64

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - September 2002

Post-it® Fax Note 7671	Date 10/9/02	# of pages ▶ 2
To Jim Hosking	From Brey	
Co./Dept. MPC	Co. BC WWTP	
Phone #	Phone #	
Fax # 963-4425	Fax #	

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD **August** **2002**

 # DAYS **31**

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			44582136				
01	1,495	1,290	44588623	0.64870	8,088	6,979	
02	1,530	1,570	44595073	0.64500	8,230	8,446	
03	1,560	1,090	44602120	0.70470	9,168	6,406	
04	1,455	1,305	44609577	0.74570	9,049	8,116	
05	1,440	1,060	44616364	0.67870	8,151	6,000	
06	1,410	1,060	44623308	0.69440	8,166	6,139	
07	1,507	1,264	44631089	0.77810	9,779	8,203	*
08	1,282	1,990	44635193	0.41040	4,388	6,811	
09	1,560	1,340	44641588	0.63950	8,320	7,147	
10	1,465	960	44647872	0.62840	7,678	5,031	
11	1,504	1,230	44654422	0.65500	8,216	6,719	*
12	1,504	1,230	44661196	0.67740	8,497	6,949	*
13	1,504	1,230	44667618	0.64220	8,055	6,588	*
14	1,504	1,230	44674124	0.65060	8,161	6,674	*
15	1,504	1,230	44680399	0.62750	7,871	6,437	*
16	1,504	1,230	44686697	0.62980	7,900	6,461	*
17	1,530	1,210	44693382	0.66850	8,530	6,746	
18	1,504	1,244	44700687	0.73050	9,163	7,579	*
19	1,500	1,450	44707247	0.65600	8,207	7,933	
20	1,510	1,292	44713717	0.64700	8,148	6,972	*
21	1,590	730	44720833	0.71160	9,436	4,332	
22	1,494	1,234	44725503	0.46700	5,819	4,806	*
23	1,680	1,100	44731649	0.61460	8,611	5,638	
24	1,710	1,530	44737353	0.57040	8,135	7,278	
25	1,519	1,210	44741956	0.46030	5,831	4,645	*
26	1,620	1,430	44748178	0.62220	8,406	7,420	
27	1,530	1,520	44753948	0.57700	7,363	7,315	
28	1,650	1,320	44760481	0.65330	8,990	7,192	
29	1,554	1,840	44765368	0.48870	6,334	7,499	#
30	1,800	1,310	44770632	0.52640	7,902	5,751	
31	1,920	2,390	44776524	0.58920	9,435	11,744	
TOTAL				19.43880	250,027	211,957	
AVG.	1,543	1,326		0.62706	8,065	6,837	

APPROVED BY: Mike Anderson **DATE:** 9/6/02

 # Denotes 12 day average for BOD.

*** Denotes 12 day average for Suspended Solids and BOD.**

$ 173,817.07

File Name: Billing - August 2002

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD JULY 2002

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			44371571				
01	1,653	1,306	44376682	0.51110	7,046	5.567	*
02	1,653	1,306	44383808	0.71260	9,824	7,762	*
03	1,410	1,180	44392021	0.82130	9,658	8,083	
04	1,653	1,346	44398334	0.63130	8,703	7,087	*
05	1,655	1,290	44404912	0.65780	9,079	7,077	
06	1,770	1,560	44410599	0.56870	8,395	7,399	
07	1,695	937	44417105	0.65060	9,197	5.084	
08	1,560	1,270	44424462	0.73570	9,572	7,792	
09	1.710	1,330	44429944	0.54820	7,818	6,081	
10	1,560	940	44437640	0.76960	10,013	6,033	
11	1,650	1,810	44441231	0.35910	4,942	5,421	
12	1,680	1,380	44447692	0.64610	9,053	7.436	
13	1,644	1,346	44453377	0.56850	7,795	6.382	*
14	1,530	1,530	44459849	0.64720	8,258	8,258	
15	1,920	1,750	44465063	0.52140	8,349	7,610	
16	1,920	3,200	44471380	0.63170	10,115	16,859	
17	1,680	2,510	44481175	0.97950	13,724	20,504	
18	1,230	4,050	44488413	0.72380	7,425	24.448	
19	1,375	1,670	44495469	0.70560	8,091	9.827	
20	1,560	1,570	44502671	0.72020	9,370	9,430	
21	1,665	1,145	44509325	0.66540	9,240	6,354	
22	1,135	885	44518659	0.93340	8,835	6,889	
23	1,135	750	44526379	0.77200	7,308	4,829	
24	1,470	1,220	44533164	0.67850	8,318	6,904	
25	1,590	1,520	44540027	0.68630	9,101	8.700	
26	1,500	1,460	44547115	0.70880	8,867	8,631	
27	1,500	2,000	44554902	0.77870	9,742	12,989	
28	1,470	1,180	44562077	0.71750	8,796	7,061	
29	1,440	1,070	44568872	0.67950	8,161	6,064	
30	1,680	940	44575072	0.62000	8,687	4,861	
31	1,710	1,550	44582136	0.70640	10,074	9,132	
TOTAL				21.05650	273,556	266,552	
AVG.	1,574	1,516		0.67924	8,824	8,598	

APPROVED BY: [signature] DATE: 8/6/02

* Denotes 12 day average for Suspended Solids and BOD.

File Name: Billing - July 2002.xls

$ 82,552.79

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD JUNE 2002

DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			44184924				
01	2,100	780	44189687	0.47630	8,342	3,098	
02	2,100	1,160	44194209	0.45220	7,920	4,375	
03	1,920	960	44199962	0.57530	9,212	4,606	
04	1,770	670	44206854	0.68920	10,174	3,851	
05	1,980	1,400	44211999	0.51450	8,496	6,007	
06	1,830	580	44218355	0.63560	9,701	3,075	
07	1,590	960	44224672	0.63170	8,377	5,058	
08	1,710	550	44233162	0.84900	12,108	3,894	
09	1,830	910	44237240	0.40780	6,224	3,095	
10	1,740	640	44243547	0.63070	9,152	3,366	
11	1,848	863	44249816	0.62690	9,662	4,512	*
12	1,650	810	44256165	0.63490	8,737	4,289	
13	1,290	687	44262329	0.61640	6,632	3,532	
14	400	337	44268294	0.59650	1,990	1,677	
15	1,365	780	44275506	0.72120	8,210	4,692	
16	1,670	755	44282718	0.72120	10,045	4,541	*
17	1,680	610	44289267	0.65490	9,176	3,332	
18	1,800	3,160	44294981	0.57140	8,578	15,059	
19	1,560	680	44302564	0.75830	9,866	4,300	
20	1,410	610	44308208	0.56440	6,637	2,871	
21	1,740	1,180	44314219	0.60110	8,723	5,916	
22	1,594	746	44320361	0.61420	8,165	3,821	*
23	1,875	1,575	44326459	0.60980	9,536	8,010	
24	1,606	848	44332342	0.58830	7,880	4,161	*
25	1,710	1,010	44339579	0.72370	10,321	6.096	
26	1,590	2,710	44345435	0.58560	7,765	13,235	
27	1,580	1,065	44351792	0.63570	8,377	5,646	*
28	1,970	1,470	44357014	0.52220	8,580	6,402	
29	1,620	1,250	44364049	0.70350	9,505	7,334	
30	1,545	1,790	44371571	0.75220	9,692	11,229	
TOTAL				18.66470	257,781	161,081	
AVG.	1,669	1,052		0.62216	8,593	5,369	

APPROVED BY: [signature] DATE: 7/8/02

* Denotes 12 day average for Suspended Solids and BOD.

$ 69,405.71

File Name: Billing - June 2002.xls

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD May 2002

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			43957907				
01	1,210	740	43966099	0.81920	8,267	5,056	
02	1,175	810	43974446	0.83470	8,180	5,639	
03	1,125	750	43982335	0.78890	7,402	4,935	
04	1,150	480	43991713	0.93780	8,994	3,754	
05	1,140	690	43998696	0.69830	6,639	4,018	
06	1,195	420	44007272	0.85760	8,547	3,004	
07	1,330	680	44015318	0.80460	8,925	4,563	
08	1,140	570	44023819	0.85010	8,082	4,041	
09	510	460	44032336	0.85170	3,623	3,267	
10	1,350	710	44040700	0.83640	9,417	4,953	
11	1,380	640	44049483	0.87830	10,109	4,688	
12	1,320	2,540	44061348	1.18650	13,062	25,134	
13	1,620	653	44064188	0.28400	3,837	1,547	*
14	930	653	44069563	0.53750	4,169	2,927	*
15	1,110	653	44078101	0.85380	7,904	4,650	*
16	1,320	3,530	44087411	0.93100	10,249	27,409	
17	1,470	850	44094216	0.68050	8,343	4,824	
18	1,335	837	44099554	0.53380	5,943	3,726	*
19	1,500	1,620	44106092	0.65380	8,179	8,833	
20	1,540	1,020	44111630	0.55380	7,113	4,711	
21	1,530	3,300	44118971	0.73410	9,367	20,204	
22	1,470	1,570	44126595	0.76240	9,347	9,983	
23	1,355	960	44135526	0.89310	10,093	7,151	
24	1,293	1,378	44140722	0.51960	5,603	5,972	*
25	1,590	1,770	44147384	0.66620	8,834	9,834	
26	1,605	1,340	44153423	0.60390	8,084	6,749	
27	1,680	800	44159983	0.65600	9,191	4,377	
28	1,710	2,780	44167300	0.73170	10,435	16,965	
29	1,710	1,160	44173400	0.61000	8,699	5,901	
30	1,740	820	44179503	0.61030	8,856	4,174	
31	1,860	1,150	44184924	0.54210	8,409	5,199	
TOTAL				22.70170	253,903	228,187	
AVG.	1,368	1,172		0.73231	8,190	7,361	

APPROVED BY: [signature] DATE: 6/6/02

* Denotes 12 day average for Suspended Solids and BOD.

$ 78,410.74

File Name: Billing - May 2002.xls

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD April 2002

DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			43721602				
01	1,210	690	43729787	0.81850	8,260	4.710	
02	1,280	940	43737901	0.81140	8,662	6,361	
03	1,150	610	43745779	0.78780	7,556	4,008	
04	1,295	850	43751969	0.61900	6.685	4,388	
05	1,272	772	43759434	0.74650	7,919	4,806	*
06	1,355	940	43766621	0.71870	8,122	5.634	
07	1,395	745	43774348	0.77270	8,990	4.801	
08	1,290	778	43782283	0.79350	8,537	5,149	*
09	1,620	1,010	43789725	0.74420	10,055	6,269	
10	1,306	784	43798363	0.86380	9,409	5,648	*
11	1,305	530	43805412	0.70490	7,672	3,116	
12	1,265	460	43813145	0.77330	8,158	2.967	
13	1,135	360	43821919	0.87740	8,305	2.634	
14	1,020	780	43829911	0.79920	6,799	5,199	
15	1,240	680	43838421	0.85100	8,801	4.826	
16	1,205	920	43846325	0.79040	7,943	6,065	
17	1,085	760	43854863	0.85380	7,726	5,412	
18	1,225	1,190	43860785	0.59220	6,050	5.877	
19	1,250	360	43868603	0.78180	8,150	2.347	
20	1,230	707	43876088	0.74850	7,678	4,413	
21	1,234	695	43885322	0.92340	9,503	5,352	*
22	1,095	713	43894703	0.93810	8,567	5,578	
23	1,020	920	43902168	0.74650	6,350	5,728	
24	1,195	820	43908844	0.66760	6,654	4.566	
25	1,095	1,350	43919479	1.06350	9,712	11.974	
26	1,200	930	43927586	0.81070	8,113	6,288	
27	1,285	740	43934731	0.71450	7,657	4,410	
28	1,160	675	43943118	0.83870	8,114	4,721	
29	1,245	560	43950864	0.77460	8,043	3,618	
30	1,178	802	43957907	0.70430	6,919	4,711	*
TOTAL				23.63050	241,110	151,576	
AVG.	1,228	769		0.78768	8,037	5,053	

$ 70,948.43

APPROVED BY: Mike Adams DATE: 5/13/02

* Denotes 12 day average for Suspended Solids and BOD.

File Name. Billing - April 2002.xls

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD **March** **2002**

 # DAYS **31**

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			43466460			
01	900	535	43476379	0.99190	7,445	4,426
02	860	480	43485719	0.93400	6,699	3,739
03	915	1,415	43494936	0.92170	7,034	10,877
04	1,030	500	43503283	0.83470	7,170	3,481
05	1,140	210	43511919	0.86360	8,211	1,513
06	1,210	653	43520282	0.83630	8,439	4,555
07	1,235	710	43527675	0.73930	7,615	4,378
08	1,220	573	43534587	0.69120	7,033	3,303
09	1,240	520	43543370	0.87830	9,083	3,809
10	1,345	740	43550729	0.73590	8,255	4,542
11	1,295	1,060	43558065	0.73360	7,923	6,485
12	1,160	560	43567251	0.91860	8,887	4,290
13	1,125	513	43574404	0.71530	6,711	3,060
14	1,245	490	43581123	0.67190	6,977	2,746
15	1,205	470	43589799	0.86760	8,719	3,401
16	1,270	435	43597836	0.80370	8,513	2,916
17	1,292	675	43605041	0.72050	7,764	4,056
18	1,225	753	43614367	0.93260	9,528	5,857
19	1,255	860	43623105	0.87380	9,146	6,267
20	1,350	1,350	43631666	0.85610	9,639	9,639
21	1,380	840	43639499	0.78330	9,015	5,487
22	755	920	43647624	0.81250	5,116	6,234
23	1,320	650	43656119	0.84950	9,352	4,605
24	1,129	850	43663804	0.76850	7,236	5,448
25	1,425	780	43671827	0.80230	9,535	5,219
26	1,300	880	43680515	0.86880	9,420	6,376
27	1,340	693	43688126	0.76110	8,506	4,399
28	1,470	910	43696528	0.84020	10,301	6,377
29	1,350	807	43704779	0.82510	9,290	5,553
30	1,220	630	43712710	0.79310	8,070	4,167
31	1,150	630	43721602	0.88920	8,528	4,672
TOTAL				25.51420	255,157	151,876
AVG.	1,205	713		0.82304	8,231	4,899

APPROVED BY: _____ **DATE:** 4/9/2002

*** Denotes 12 day average for Suspended Solids and BOD.**

File Name: Billing - March 2002.xls

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD | February | 2002
DAYS | 28

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)	
PREV			43230970				
01	1,375	800	43238138	0.71680	8,220	4,782	
02	1,295	850	43246599	0.84610	9,138	5,998	
03	1,140	630	43255770	0.91710	8,719	4,819	
04	998	655	43264439	0.86690	7,215	4,736	
05	1,230	1,162	43270821	0.63820	6,547	6,185	
06	1,285	790	43278449	0.76280	8,175	5,026	
07	1,410	820	43286690	0.82410	9,691	5,636	
08	1,290	380	43294322	0.76320	8,211	2,419	
09	1,240	710	43302909	0.85870	8,880	5,085	
10	1,258	750	43310986	0.80770	8,474	5,052	
11	1,345	880	43319644	0.86580	9,712	6,354	
12	1,278	770	43327371	0.77270	8,236	4,962	*
13	1,315	1,200	43337138	0.97670	10,712	9,775	
14	1,280	950	43345648	0.85100	9,085	6,742	
15	1,290	690	43352904	0.72560	7,806	4,176	
16	1,255	840	43361614	0.87100	9,116	6,102	
17	1,292	725	43369409	0.77950	8,399	4,713	
18	1,235	770	43378319	0.89100	9,177	5,722	
19	1,380	770	43386857	0.85380	9,827	5,483	
20	1,345	455	43393104	0.62470	7,007	2,371	
21	1,150	1,000	43401140	0.80360	7,707	6,702	
22	1,185	647	43410851	0.97110	9,597	5,240	
23	3,150	770	43420139	0.92880	24,401	5,965	
24	1,005	574	43429493	0.93540	7,840	4,478	
25	1,170	720	43439425	0.99320	9,691	5,964	
26	1,258	746	43448894	0.94690	9,935	5,891	*
27	1,245	660	43457048	0.81540	8,467	4,488	
28	1,270	690	43466460	0.94120	9,969	5,416	
TOTAL				23.54900	259,955	150,281	
AVG.	1,320	764		0.84104	9,284	5,367	

APPROVED BY:_____ DATE:_____

* Denotes 12 day average for Suspended Solids and BOD.

File Name. Billing - February 2002.xls

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD **January** **2002**

 # DAYS **31**

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV			42978580			
01	1,440	1,140	42986931	0.83510	10,029	7,940
02	1,560	960	42996542	0.96110	12,504	7,695
03	1,320	827	43006070	0.95280	10,489	6,572
04	1,230	880	43014279	0.82090	8,421	6,025
05	1,260	1,070	43021760	0.74810	7,861	6,676
06	1,305	1,045	43029240	0.74800	8,141	6,519
07	870	1,070	43038067	0.88270	6,405	7,877
08	1,530	2,086	43046678	0.86110	10,988	14,981
09	1,350	1,170	43054719	0.80410	9,053	7,846
10	1,290	970	43061603	0.68840	7,406	5,569
11	1,170	810	43068696	0.70930	6,921	4,792
12	1,380	1,100	43075983	0.72870	8,387	6,685
13	1,080	1,045	43084363	0.83800	7,548	7,303
14	1,132	1,240	43092369	0.80060	7,558	8,279
15	1,060	820	43101155	0.87860	7,767	6,009
16	1,135	820	43109226	0.80710	7,640	5,520
17	1,040	850	43116365	0.71390	6,192	5,061
18	1,295	740	43124716	0.83510	9,019	5,154
19	1,320	1,125	43132813	0.80970	8,914	7,597
20	1,110	945	43140495	0.76820	7,112	6,054
21	1,265	950	43148672	0.81770	8,627	6,479
22	1,250	940	43157564	0.88920	9,270	6,971
23	1,375	590	43165959	0.83950	9,627	4,131
24	1,220	470	43175964	1.00050	10,180	3,922
25	1,180	840	43183173	0.72090	7,095	5,050
26	1,345	840	43190748	0.75750	8,497	5,307
27	1,110	865	43198649	0.79010	7,314	5,700
28	1,225	1,430	43207133	0.84840	8,668	10,118
29	1,320	1,060	43215610	0.84770	9,332	7,494
30	1,410	1,070	43222882	0.72720	8,551	6,489
31	1,325	810	43230970	0.80880	8,938	5,464
TOTAL				25.23900	264,455	207,278
AVG.	1,255	986		0.81416	8,531	6,686

APPROVED BY:_____**DATE:**_____

*** Denotes 12 day average for Suspended Solids and BOD.**

File Name: Billing - January 2002.xls

6 20

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD JANUARY 1989
DAYS 31 4+8

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	4550572	********	******	******
01	380	720	4557651	0.70790	2,243	4,251
02	500	370	4564219	0.65680	2,739	2,027
03	360	270	4571201	0.69820	2,096	1,572
04	390	188	4577688	0.64870	2,110	1,017
05	625	216	4583275	0.55870	2,912	1,006
06	560	280	4586472	0.31970	1,493	747
07	585	420	4590520	0.40480	1,975	1,418
08	510	240	4594004	0.34840	1,482	697
09	610	298	PORTABLE	0.57680	2,934	1,434
10	655	215	PORTABLE	0.61880	3,380	1,110
11	660	180	PORTABLE	0.62660	3,449	941
12	840	184	PORTABLE	0.58980	4,132	905
13	840	364	PORTABLE	0.72300	5,065	2,195
14	600	195	PORTABLE	0.66550	3,330	1,082
15	630	212	PORTABLE	0.71500	3,757	1,264
16	530	152	PORTABLE	0.84480	3,734	1,071
17	470	208	PORTABLE	0.91110	3,571	1,581
18	695	216	PORTABLE	0.79840	4,628	1,438
19	590	792	PORTABLE	1.34390 (1)	~~6,~~613 (9)	8,877 (5)
20	620	376	PORTABLE	1.03870	5,371	3,257
21	540	1105	PORTABLE	0.62700	2,824	5,778
22	510	440	PORTABLE	0.46200	1,965	1,695
23	520	2590	4703228	0.21130	916	4,564
24	400	1000	4708410	0.51820	1,729	4,322
25	430	1050	4712394	0.39840	1,429	3,489
26	685	134	4715871	0.34770	1,986	389
27	840	188	4721077	0.52060	3,647	816
28	765	216	4725934	0.48570	3,099	875
29	615	570	4731682	0.57480	2,948	2,732
30	601	242	4739227	0.75450	3,782	1,523
31	707	195	4745128	0.59010	3,479	960
TOTAL				19.28590	94,820	65,032
AVER	589 (7)	446 (3)		0.62213 (2)	3,059 (10)	2,098 (6)

REVIEWED BY: Chris DATE: 2-7-89

APPROVED BY: CWO DATE: 2/9/89

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD FEBRUARY 1989
DAYS 28

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	4745128	********	******	******
01	840	230	4750914	0.57860	4,053	1,110
02	930	810	4756339	0.54250	4,208	3,665
03	750	200	4762405	0.60660	3,794	1,012
04	990	770	4768243	0.58380	4,820	3,749
05	730	1020	4773847	0.56040	3,412	4,767
06	650	45	4779734	0.58870	3,191	221
07	260	60	4785519	0.57850	1,254	289
08	460	100	4790990	0.54710	2,099	456
09	750	550	4795850	0.48600	3,040	2,229
10	840	495	4801196	0.53460	3,745	2,207
11	810	152	4807024	0.58280	3,937	739
12	675	282	4812228	0.52040	2,930	1,224
13	680	255	4817540	0.53120	3,013	1,130
14	630	295	4823032	0.54920	2,886	1,351
15	480	515	4827608	0.45760	1,832	1,965
16	840	304	4834146	0.65380	4,580	1,658
17	690	1000	4840634	0.64880	3,734	5,411
18	645	447	4847137	0.65030	3,498	2,424
19	675	1130	4854458	0.73210	4,121	6,899
20	580	220	4860852	0.63940	3,093	1,173
21	570	135	4866392	0.55400	2,634	624
22	810	220	4872126	0.57340	3,874	1,052
23	780	400	4877789	0.56630	3,684	1,889
24	630	300	4882904	0.51150	2,688	1,280
25	900	208	4888165	0.52610	3,949	913
26	645	345	4892998	0.48330	2,600	1,391
27	600	112	4898547	0.55490	2,777	518
28	660	260	4904109	0.55620	3,062	1,206
TOTAL				15.89810	92,506	52,553
AVER	696	388		0.56779	3,304	1,877

REVIEWED BY: Chris DATE: 3-8-89

APPROVED BY: No DATE: 3/8/89

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD MARCH 1989
DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	4904109	********	******	******
01	690	880	4910301	0.61920	3,563	4,544
02	600	3333	4917418	0.71170	3,561	19,783
03	655	1455	4924522	0.71040	3,881	8,620
04	310	1160	4932513	0.79910	2,066	7,731
05	270	870	4942018	0.95050	2,140	6,897
06	520	1270	4950441	0.84230	3,653	8,921
07	560	3010	4958763	0.83220	3,887	20,891
08	600	1550	4965621	0.68580	3,432	8,865
09	615	1115	4973777	0.81560	4,183	7,584
10	635	1180	4981702	0.79250	4,197	7,799
11	540	1170	4991106	0.94040	4,235	9,176
12	530	556	4997849	0.67430	2,981	3,127
13	580	520	5005903	0.80540	3,896	3,493
14	490	530	5016648	1.07450	4,391	4,750
15	450	1420	5025023	0.83750	3,143	9,918
16	780	980	5033636	0.86130	5,603	7,040
17	700	1270	5047280	1.36440	7,965	14,451
18	583	1214	5059306	1.20260	5,847	12,176
19	660	1610	5067655	0.83490	4,596	11,211
20	400	660	5075501	0.78460	2,617	4,319
21	640	600	5083583	0.80820	4,314	4,044
22	600	1130	5092240	0.86570	4,332	8,159
23	870	340	5100034	0.77940	5,655	2,210
24	650	320	5108058	0.80240	4,350	2,141
25	715	132	5114544	0.64860	3,868	714
26	598	112	5121606	0.70620	3,522	660
27	680	1120	5130017	0.84110	4,770	7,857
28	630	1155	5139063	0.90460	4,753	8,714
29	665	270	5145869	0.68060	3,775	1,533
30	680	172	5152582	0.67130	3,807	963
31	750	244	5158672	0.60900	3,809	1,239
TOTAL				25.45630	126,792	219,530
AVER	601	1011		0.82117	4,090	7,082

REVIEWED BY: Chris DATE: 4-10-89

APPROVED BY: [illegible] DATE: 4/10/89

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD APRIL 1989
DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	5158672	********	******	******
01	840	330	5165055	0.63830	4,472	1,757
02	915	374	5171310	0.62550	4,773	1,951
03	900	185	5177590	0.62800	4,714	969
04	1020	195	5183980	0.63900	5,436	1,039
05	630	170	5191250	0.72700	3,820	1,031
06	870	200	5193627	0.23770	1,725	396
07	600	740	5205473	1.18460	5,928	7,311
08	430	1830	5221745	1.62720	5,835	24,835
09	590	370	5230127	0.83820	4,124	2,587
10	810	180	5236483	0.63560	4,294	954
11	720	380	5243727	0.72440	4,350	2,296
12	570	117	5249521	0.57940	2,754	565
13	735	240	5257603	0.80820	4,954	1,618
14	705	185	5264965	0.73620	4,329	1,136
15	780	910	5272959	0.79940	5,200	6,067
16	570	610	5280649	0.76900	3,656	3,912
17	590	260	5288915	0.82660	4,067	1,792
18	600	225	5295680	0.67650	3,385	1,269
19	720	110	5302581	0.69010	4,144	633
20	930	100	5308820	0.62390	4,839	520
21	870	188	5315808	0.69880	5,070	1,096
22	770	130	5324517	0.87090	5,593	944
23	765	112	5331011	0.64940	4,143	607
24	720	100	5337521	0.65100	3,909	543
25	580	64	5344459	0.69380	3,356	370
26	840	72	5350377	0.59180	4,146	355
27	870	180	5357409	0.70320	5,102	1,056
28	1350	400	5369558	1.21490	13,679	4,053
29	120	633	5378377	0.88190	883	4,656
30	125	805	5381760	0.33830	353	2,271
TOTAL				22.30880	133,033	78,589
AVER	718	347		0.74363	4,434	2,620

REVIEWED BY: CK DATE: 5-9-89

APPROVED BY: CWb DATE: 9 MAY 89

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD

MONTH MAY 1989
DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	5381760	********	******	******
01	200	840	5385294	0.35340	589	2,476
02	370	2430	5397919	1.26250	3,896	25,586
03	565	395	5405444	0.75250	3,546	2,479
04	810	300	5412091	0.66470	4,490	1,663
05	755	170	5418289	0.61980	3,903	879
06	870	140	5424513	0.62240	4,516	727
07	825	238	5429091	0.45780	3,150	909
08	705	180	5434114	0.50230	2,953	754
09	630	170	5437541	0.34270	1,801	486
10	810	190	5441698	0.41570	2,808	659
11	870	146	5446071	0.43730	3,173	532
12	810	144	5450272	0.42010	2,838	505
13	750	153	5454658	0.43860	2,743	560
14	780	1190	5459251	0.45930	2,988	4,558
15	960	124	5467017	0.77660	6,218	803
16	795	630	5474644	0.76270	5,057	4,007
17	665	136	5481803	0.71590	3,970	812
18	440	170	5489686	0.78830	2,893	1,118
19	630	168	5497470	0.77840	4,090	1,091
20	720	124	5503551	0.60810	3,652	629
21	685	132	5509976	0.64250	3,671	707
22	705	115	5515437	0.54610	3,211	524
23	630	120	5522180	0.67430	3,543	675
24	660	116	5530946	0.87660	4,825	848
25	1230	220	5537256	0.63100	6,473	1,158
26	840	2670	5554252	1.69960	11,907	37,846
27	595	132	5563945	0.96930	4,810	1,067
28	535	162	5569631	0.56860	2,537	768
29	590	480	5573892	0.42610	2,097	1,706
30	639	176	5579435	0.55430	2,954	814
31	550	305	5585064	0.56290	2,582	1,432
TOTAL				20.33040	117,883	98,776
AVER	697	409		0.65582	3,803	3,186

REVIEWED BY: Chris DATE: 6-9-89

APPROVED BY: [illegible] DATE: 6/12/89

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CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD JUNE 1989
DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	5585064	********	******	******
01	570	130	5589889	0.48250	2,294	523
02	730	148	5594257	0.43680	2,659	539
03	712	192	5599355	0.50980	3,027	816
04	550	140	5604501	0.51460	2,360	601
05	660	190	5609005	0.45040	2,479	714
06	670	225	5614085	0.50800	2,839	953
07	570	148	5619268	0.51830	2,464	640
08	610	380	5625208	0.59400	3,022	1,883
09	500	230	5629938	0.47300	1,972	907
10	635	215	5635366	0.54280	2,875	973
11	390	103	5640542	0.51760	1,684	445
12	570	88	5645527	0.49850	2,370	366
13	600	72	5650282	0.47550	2,379	286
14	470	475	5655072	0.47900	1,878	1,898
15	590	174	5659035	0.39630	1,950	575
16	570	68	5663563	0.45280	2,153	257
17	700	108	5667327	0.37640	2,197	339
18	570	106	5671860	0.45330	2,155	401
19	500	740	5677328	0.54680	2,280	3,375
20	310	450	5683145	0.58170	1,504	2,183
21	590	205	5688255	0.51100	2,514	874
22	720	188	5694478	0.62230	3,737	976
23	490	1573	5698214	0.37360	1,527	4,901
24	440	170	5701162	0.29480	1,082	418
25	590	205	5705352	0.41900	2,062	716
26	580	570	5710269	0.49170	2,378	2,337
27	370	1110	5717572	0.73030	2,254	6,761
28	290	296	5723401	0.58290	1,410	1,439
29	510	150	5729196	0.57950	2,465	725
30	660	100	5734189	0.49930	2,748	416
TOTAL				14.91250	68,717	38,236
AVER	557	298		0.49708	2,291	1,275

REVIEWED BY: Chris DATE: 7-11-89

APPROVED BY: [illegible] DATE: 7/11/89

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD JULY 1989
DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	5734189	********	******	******
01	510	117	5739843	0.56540	2,405	552
02	750	250	5745391	0.55480	3,470	1,157
03	660	54	5749791	0.44000	2,422	198
04	430	270	5754509	0.47180	1,692	1,062
05	597	230	5760252	0.57430	2,859	1,102
06	570	300	5766922	0.66700	3,171	1,669
07	500	160	5772386	0.54640	2,278	729
08	460	140	5778352	0.59660	2,289	697
09	530	205	5784549	0.61970	2,739	1,060
10	560	96	5789730	0.51810	2,420	415
11	530	225	5795746	0.60160	2,659	1,129
12	470	215	5800583	0.48370	1,896	867
13	630	180	5804843	0.42600	2,238	640
14	590	183	5809597	0.47540	2,339	726
15	610	170	5814760	0.51630	2,627	732
16	570	128	5820130	0.53700	2,553	573
17	610	1020	5824843	0.47130	2,398	4,009
18	650	135	5830249	0.54060	2,931	609
19	685	140	5836999	0.67500	3,856	788
20	570	173	5845424	0.84250	4,005	1,216
21	550	105	5852311	0.68870	3,159	603
22	510	145	5858123	0.58120	2,472	703
23	870	116	5864449	0.63260	4,590	612
24	600	100	5869508	0.50590	2,532	422
25	780	280	5875265	0.57570	3,745	1,344
26	670	270	5879905	0.46400	2,593	1,045
27	795	2865	5886354	0.64490	4,276	15,409
28	598	1320	5893184	0.68300	3,406	7,519
29	748	370	5899776	0.65920	4,112	2,034
30	552	580	5906983	0.72070	3,318	3,486
31	663	115	5912484	0.55010	3,042	528
TOTAL				17.82950	90,492	53,633
AVER	607	344		0.57515	2.919	1,730

REVIEWED BY: [illegible] DATE: 8-8-89

APPROVED BY: [illegible] DATE: 8/8/89

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CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD AUGUST 1989
DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	5912484	********	******	******
01	771	533	5917881	0.53970	3,470	2,399
02	648	690	5924499	0.66180	3,577	3,808
03	456	1613	5934592	1.00930	3,838	13,578
04	487	770	5944795	1.02030	4,144	6,552
05	638	333	5952234	0.74390	3,958	2,066
06	540	650	5958669	0.64350	2,898	3,488
07	616	730	5964287	0.56180	2,886	3,420
08	554	215	5970705	0.64180	2,965	1,151
09	589	660	5978360	0.76550	3,760	4,214
10	566	232	5985851	0.74910	3,536	1,449
11	631	595	5992549	0.66980	3,525	3,324
12	692	253	5997996	0.54470	3,144	1,149
13	696	120	6003796	0.58000	3,367	580
14	786	913	6009815	0.60190	3,946	4,583
15	573	630	6021022	1.12070	5,356	5,888
16	86	1110	6033358	1.23360	885	11,420
17	280	575	6041771	0.84130	1,965	4,034
18	600	252	6046114	0.43430	2,173	913
19	620	630	6054672	0.85580	4,425	4,497
20	856	2210	6071290	1.66180	11,864	30,629
21	510	330	6078413	0.71230	3,030	1,960
22	299	870	6086702	0.82890	2,067	6,014
23	147	1265	6093909	0.72070	884	7,603
24	388	200	6102402	0.84930	2,748	1,417
25	662	315	6110014	0.76120	4,203	2,000
26	804	550	6118090	0.80760	5,415	3,704
27	595	840	6127325	0.92350	4,583	6,470
28	582	150	6134848	0.75230	3,652	941
29	627	268	6142206	0.73580	3,848	1,645
30	627	352	6149521	0.73150	3,825	2,147
31	499	158	6157327	0.78060	3,249	1,029
TOTAL				24.48430	113,184	144,074
AVER	562	613		0.78982	3,651	4,648

REVIEWED BY: Chris DATE: 9-12-89

APPROVED BY: [illegible] DATE: 9/12/89

flow $ 32,401.36
BOD $ 5,452.02
SS $ 7,453.26

$ 51,889.87

09/89

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD SEPTEMBER 1989
DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	6157327	********	******	******
01	616	144	6165285	0.79580	4,088	956
02	672	208	6173661	0.83760	4,694	1,453
03	639	392	6180611	0.69500	3,704	2,272
04	517	460	6189053	0.84420	3,640	3,239
05	789	1680	6196749	0.76960	5,064	10,783
06	606	1515	6205532	0.87830	4,439	11,097
07	619	1003	6217067	1.15350	5,955	9,649
08	654	353	6222211	0.51440	2,806	1,514
09	828	1270	6230024	0.78130	5,395	8,275
10	954	505	6236805	0.67810	5,395	2,856
11	819	82	6243530	0.67250	4,593	460
12	668	92	6250230	0.67000	3,733	514
13	635	130	6256968	0.67380	3,568	731
14	529	1270	6267328	1.03600	4,571	10,973
15	598	632	6274156	0.68280	3,405	3,599
16	714	280	6281639	0.74830	4,456	1,747
17	769	690	6290412	0.87730	5,627	5,049
18	694	360	6297623	0.72110	4,174	2,165
19	642	845	6306301	0.86780	4,646	6,116
20	654	220	6313549	0.72480	3,953	1,330
21	588	122	6320999	0.74500	3,653	758
22	706	138	6327835	0.68360	4,025	787
23	646	155	6335042	0.72070	3,883	932
24	728	240	6342365	0.73230	4,446	1,466
25	491	88	6354563	1.21980	4,995	895
26	680	158	6361839	0.72760	4,126	959
27	708	520	6367197	0.53580	3,164	2,324
28	644	128	6373445	0.62480	3,356	667
29	708	97	6379986	0.65410	3,862	529
30	732	164	6386973	0.69870	4,265	956
TOTAL				22.96460	127,683	95,050
AVER	675	465		0.76549	4,256	3,168

REVIEWED BY: [illegible] DATE: 10-4-89

APPROVED BY: [illegible] DATE: 10/9/89

10/89

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD — OCTOBER 1989

DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	6386973	********	******	******
01	702	113	6394330	0.73570	4,307	693
02	575	328	6400182	0.58520	2,806	1,601
03	582	212	6406637	0.64550	3,133	1,141
04	654	230	6414824	0.81870	4,465	1,570
05	672	3560	6420102	0.52780	2,958	15,671
06	604	190	6426428	0.63260	3,187	1,002
07	621	253	6433100	0.66720	3,456	1,408
08	672	160	6439773	0.66730	3,740	890
09	481	147	6444023	0.42500	1,705	521
10	633	375	6456471	1.24480	6,572	3,893
11	467	1410	6470209	1.37380	5,351	16,155
12	451	157	6474863	0.46540	1,751	609
13	672	1255	6483332	0.84690	4,746	8,864
14	648	860	6491818	0.84860	4,586	6,086
15	593	230	6499634	0.78160	3,865	1,499
16	568	325	6508260	0.86260	4,086	2,338
17	558	143	6513683	0.54230	2,524	647
18	933	95	6520207	0.65240	5,076	517
19	786	355	6526059	0.58520	3,836	1,733
20	786	140	6532493	0.64340	4,218	751
21	614	197	6540103	0.76100	3,897	1,250
22	594	127	6547125	0.70220	3,479	744
23	680	485	6552401	0.52760	2,992	2,134
24	741	108	6559118	0.67170	4,151	605
25	813	280	6565326	0.62080	4,209	1,450
26	588	250	6574242	0.89160	4,372	1,859
27	622	190	6583551	0.93090	4,829	1,475
28	780	375	6591085	0.75340	4,901	2,356
29	646	565	6599035	0.79500	4,283	3,746
30	705	195	6606820	0.77850	4,577	1,266
31	795	325	6613346	0.65260	4,327	1,769
TOTAL				22.63730	122,386	86,246
AVER	653	440		0.73024	3,948	2,782

REVIEWED BY: Chris DATE: 11-9-89

APPROVED BY: CWO DATE: 13 Nov 89

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD NOVEMBER 1989
DAYS 30

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	6613346	********	******	******
01	804	148	6619942	0.65960	4,423	814
02	704	252	6627693	0.77510	4,551	1,629
03	634	218	6634522	0.68290	3,611	1,242
04	652	112	6642630	0.81080	4,409	757
05	786	120	6649199	0.65690	4,306	657
06	834	123	6655802	0.66030	4,593	677
07	689	114	6662742	0.69400	3,988	660
08	587	117	6669439	0.66970	3,279	653
09	626	105	6676810	0.73710	3,848	645
10	496	100	6685776	0.89660	3,709	748
11	584	140	6694518	0.87420	4,258	1,021
12	650	189	6702809	0.82910	4,495	1,307
13	667	2140	6713572	1.07630	5,987	19,209
14	434	1550	6728526	1.49540	5,413	19,331
15	605	328	6736589	0.80630	4,068	2,206
16	572	338	6744815	0.82260	3,924	2,319
17	562	184	6751976	0.71610	3,356	1,099
18	458	266	6761429	0.94530	3,611	2,097
19	540	156	6769387	0.79580	3,584	1,035
20	526	178	6776084	0.66970	2,938	994
21	635	356	6783712	0.76280	4,040	2,265
22	647	360	6791014	0.73020	3,940	2,192
23	909	225	6796838	0.58240	4,415	1,093
24	609	288	6802517	0.56790	2,884	1,364
25	707	556	6808916	0.63990	3,773	2,967
26	589	114	6815241	0.63250	3,107	601
27	645	106	6821243	0.60020	3,229	531
28	649	103	6828029	0.67860	3,673	583
29	726	100	6833676	0.56470	3,419	471
30	703	1180	6837412	0.37360	2,190	3,677
TOTAL				22.40660	117,021	74,845
AVER	641	342		0.74689	3,901	2,495

REVIEWED BY: Chi DATE: 12-8-89

APPROVED BY: [signature] DATE: 12/8/89

12/89 rec'd 01/30/90

done

CONTRACT CUSTOMER BILLING DATA

MICHIGAN PAPERBOARD DECEMBER 1989
DAYS 31

DATE	BOD (mg/l)	SS (mg/l)	FLOW READING	FLOW (MGD)	BOD (lbs)	SS (lbs)
PREV	******	******	6837412	********	******	******
01	710	324	6843755	0.63430	3,756	1,714
02	659	508	6849932	0.61770	3,395	2,617
03	780	103	6855275	0.53430	3,476	459
04	861	1313	6861423	0.61480	4,415	6,732
05	810	111	6866830	0.54070	3,653	501
06	855	168	6873168	0.63380	4,519	888
07	960	490	6879224	0.60560	4,849	2,475
08	990	1990	6883632	0.44080	3,640	7,316
09	735	1028	6889292	0.56600	3,470	4,853
10	840	1660	6895325	0.60330	4,226	8,352
11	810	1664	6901519	0.61940	4,184	8,596
12	785	292	6906767	0.52480	3,436	1,278
13	720	404	6912975	0.62080	3,728	2,092
14	750	856	6918430	0.54550	3,412	3,894
15	780	182	6923887	0.54570	3,550	828
16	780	120	6928757	0.48700	3,168	487
17	645	111	6933965	0.52080	2,802	482
18	720	376	6938635	0.46700	2,804	1,464
19	590	490	6946517	0.78820	3,878	3,221
20	600	404	6954498	0.79810	3,994	2,689
21	600	332	6961110	0.66120	3,309	1,831
22	680	262	6967304	0.61940	3,513	1,353
23	375	3890	6980799	1.34950	4,221	43,781
24	180	128	6982861	0.20620	310	220
25	160	260	6983356	0.04950	66	107
26	50	532	6986089	0.27330	114	1,213
27	110	356	6988205	0.21160	194	628
28	85	305	6990528	0.23230	165	591
29	50	158	6992458	0.19300	80	254
30	130	472	6994242	0.17840	193	702
31	285	920	7001780	0.75380	1,792	5,784
TOTAL				16.43680	88,309	117,404
AVER	583	652		0.53022	2,849	3,787

[illegible]: _____ DATE: _____

APPROVED BY: [illegible] DATE: 1/9/90

1989 Total flow 244.9511 gals.

.67045

EQP 4612 1 (Rev 5/96)

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
SURFACE WATER QUALITY DIVISION DEQ

DAILY DISCHARGE MONITORING REPORT

Please refer to the reverse side of this report for information and instructions

PERMITTEE S NAME: Michigan Carton and Paperboard Company
PERMITTEE S ADDRESS: 79 East Fountain Street
CITY STATE ZIP CODE: Battle Creek, Michigan 49017

FACILITY NAME AND LOCATION (If different than Permittee):

DISCHARGE NUMBER	PERMIT NUMBER
001	MI 0001341

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
FROM	2002	01	01	TO	2002	01	31

	PAR #	50050	00530	00530	00400	50060	84130			
	PARA-METER	Flow conduit MGD	Suspended, Solids mg/L	Suspended solids lbs/day	pH	Chlorine, total residual	outfall observation			
	LIMIT		Ave 20 - Max 30	Ave 534 - Max 800	Min 6.5 - Max 9.0	0.038				
DAY	UNITS									
01		1.85				0	1			
02		1.84 GRAB	18	276.22	7.5	0	1			
03		1.89 GRAB	4	63.05	7.8	0	1			
04		1.91				0	1			
05		1.91				0	1			
06		1.92				0	1			
07		1.92				0	1			
08		1.92				0	1			
09		1.74				0	1			
10		1.59 GRAB	26	344.78	7.6	0	1			
11		1.61				0	1			
12		1.62				0	1			
13		1.64				0	1			
14		1.56				0	1			
15		1.49				0	1			
16		1.54 GRAB	11	141.28	7.8	0	1			
17		1.60				0	1			
18		1.43				0	1			
19		1.51				0	1			
20		1.52				0	1			
21		1.49				0	1			
22		1.44				0	1			
23		1.85 GRAB	6	92.57	7.0	0	1			
24		1.83				0	1			
25		1.77				0	1			
26		1.79				0	1			
27		1.80				0	1			
28		1.84				0	1			
29		1.86				0	1			
30		1.71				0	1			
31		2.09				0	1			
	TOTAL	53.4800	65	917.90	37.7	0	31			
	AVERAGE	1.7252	13	183.58	7.5	0	1			

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information I believe the submitted information is true accurate and complete I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment See 18 U S C §1001 and 33 U S C §1319 *(Penalties under these statutes may include fines up to $10 000 and or maximum imprisonment of between 6 months and 5 years*

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
Mark Reed, General Mgr.	James M Hoking W-2444	02/07/2002

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME MICH CARTON & PAPERBOARD CO

ADDRESS 79 EAST FOUNTAIN STREET
BATTLE CREEK MI 49017

FACILITY MICH CARTON & PAPERBOARD CO

LOCATION BATTLE CREEK MI 49017

ATTN: JAMES HOSKING

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OMB No. 2040-0004

PERMIT NUMBER	DISCHARGE NUMBER
MI0001341	001 A

MINOR
(SUBR PP)
F - FINAL
001 KALAMAZOO RIVER

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	02	01	01	TO	02	01	31

*** NO DISCHARGE |__| ***

NOTE: Read instructions before completing this form.

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	UNITS	QUALITY OR CONCENTRATION MINIMUM	QUALITY OR CONCENTRATION AVERAGE	QUALITY OR CONCENTRATION MAXIMUM	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
PH	SAMPLE MEASUREMENT	******	******		7.0	******	7.8	(12)	0	01/07	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	[redacted]	[redacted]	*** ****	[redacted]	[redacted]	[redacted]	SU	[redacted]	[redacted]	[redacted]
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	183.58	344.78	(26)	******	13	26	(19)	0	01/07	GRAB
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	[redacted]	[redacted]	LBS/DY	[redacted]	[redacted]	[redacted]	MG/L	[redacted]	[redacted]	[redacted]
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	1.7252	2.09	(03)	******	******	******		0		
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	[redacted]	[redacted]	MGD	[redacted]	[redacted]	[redacted]	**** ****	[redacted]	[redacted]	[redacted]
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	******	******		******	******	0	(28)	0		
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	[redacted]	[redacted]	*** ****	[redacted]	[redacted]	[redacted]	UG/L	[redacted]	[redacted]	[redacted]
OUTFALL OBSERVATION, VISUAL, Y/N RESPONSE	SAMPLE MEASUREMENT	1	******	(94)	******	******	******		0		
84130 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	[redacted]	[redacted]	ES=1 NO=0	[redacted]	[redacted]	[redacted]	**** ****	[redacted]	[redacted]	[redacted]
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Mark Reed, General Manager

TYPED OR PRINTED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

James M. Hosking W-2444

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE AREA CODE	NUMBER	DATE YEAR	MO	DAY
616	963-4004	2002	02	07

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Q=CONTINUOUS-GREAT THAN 160 MIN/DAY R=INTERMITTENT-LESS THAN/EQUAL TO 160 MIN/DAY

Did not chlorinate

EQP 4612 1 (Rev 5/96)

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
SURFACE WATER QUALITY DIVISION DEQ

DAILY DISCHARGE MONITORING REPORT

Please refer to the reverse side of this report for information and instructions

PERMITTEE'S NAME: Michigan Carton and Paperboard Company

PERMITTEE'S ADDRESS: 79 East Fountain Street

CITY STATE ZIP CODE: Battle Creek Michigan 49017

FACILITY NAME AND LOCATION (If different than Permittee):

DISCHARGE NUMBER	PERMIT NUMBER
001	MI 0001341

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
FROM	2002	02	01	TO	2002	02	28

	PAR #	50050	00530	00530	00400	50060	84130			
	PARA-METER	Flow conduit MGD	Suspended solids mg/L	Suspended solids lbs/day	pH	Chlorine, total residual	Outfall observation			
	LIMIT		Ave 20 - Max 30	Ave 534 - Max 800	Min 6.5 - Max 9.0	0.038				
DAY	UNITS									
01		2.24 GRAB	15	280.22	7.2	0	1			
02		2.14				0	1			
03		2.17				0	1			
04		2.12				0	1			
05		2.16				0	1			
06		2.12				0	1			
07		2.13 GRAB	5	88.82	7.2	0	1			
08		2.11				0	1			
09		2.13				0	1			
10		2.09				0	1			
11		2.04				0	1			
12		2.11				0	1			
13		2.14				0	1			
14		2.19 GRAB	5	91.32	7.2	0	1			
15		2.23				0	1			
16		2.20				0	1			
17		2.17				0	1			
18		2.13				0	1			
19		2.15				0	1			
20		2.47				0	1			
21		2.72				0	1			
22		2.60 GRAB	11	238.52	7.2	0	1			
23		2.48				0	1			
24		2.28				0	1			
25		2.06				0	1			
26		2.04				0	1			
27		2.00				0	1			
28		2.04 GRAB	4	68.05	7.9	0	1			
29										
30										
31										
	TOTAL	61.4600	40	766.94	36.7	0	28			
	AVERAGE	2.1950	8	153.38	7.3	0	1			

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information I believe the submitted information is true accurate and complete I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment See 18 U S C §1001 and 33 U S C §1319 *(Penalties under these statutes may include fines up to $10 000 and or maximum imprisonment of between 6 months and 5 years*

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
Mark Reed, General Mgr	James M. Flotang W-2444	03/08/2002

Form Approved
OMB No 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME MICH CARTON & PAPERBOARD CO
ADDRESS 79 EAST FOUNTAIN STREET
BATTLE CREEK MI 49017

FACILITY MICH CARTON & PAPERBOARD CO
LOCATION BATTLE CREEK MI 49017
ATTN: JAMES HOSKING

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

MI0001341	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	02	02	01	TO	02	02	28

MINOR
(SUBR PP)
F - FINAL
001 KALAMAZOO RIVER

*** NO DISCHARGE |__| ***
NOTE: Read instructions before completing this form.

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	UNITS	QUALITY OR CONCENTRATION MINIMUM	QUALITY OR CONCENTRATION AVERAGE	QUALITY OR CONCENTRATION MAXIMUM	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
PH	SAMPLE MEASUREMENT	******	******		7.2	******	7.9	(12)	0	01/07	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	6.5 DAILY MN	******	9.0 DAILY MX	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	153.38	280.22	(26)	******	8	15	(19)	0	01/07	GRAB
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	534 MO AVG	800 DAILY MX	LBS/DY	******	20 MO AVG	30 DAILY MX	MG/L		WEEKLY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	2.1950	2.72	(03)	******	******	******		0		
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MX	MGD	******	******	******	**** ****		DAILY	RCDPLC
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	******	******		******	******	0	(28)	0		
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	38 DAILY MX	UG/L		DAILY	GRAB
OUTFALL OBSERVATION, VISUAL, Y/N RESPONSE	SAMPLE MEASUREMENT	1	******	(94)	******	******	******		0		
84130 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO TOTAL	******	YES=1 NO=0	******	******	******	**** ****		DAILY	VISUAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark Reed, General Mgr.	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	James M. Hosking N-2444 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	616	963-4004	2002	03	08
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
Q=CONTINUOUS-GREAT THAN 160 MIN/DAY R=INTERMITTENT-LESS THAN/EQUAL TO 160 MIN/DAY

Did not chlorinate

EQP 4612 1 (Rev 5/96)

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
SURFACE WATER QUALITY DIVISION DEQ

DAILY DISCHARGE MONITORING REPORT

Please refer to the reverse side of this report for information and instructions

PERMITTEE'S NAME: Michigan Carton and Paperboard Company

PERMITTEE'S ADDRESS: 79 East Fountain Street

CITY STATE ZIP CODE: Battle Creek, Michigan 49017

FACILITY NAME AND LOCATION (If different than Permittee):

DISCHARGE NUMBER	PERMIT NUMBER
001	MI0001341

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
FROM	2002	03	01	TO	2002	03	31

	PAR #	50050	00530	00530	00400	50060	84130			
	PARAMETER	Flow conduit MGD	Suspended solids mg/L	Suspended solids lbs/day	pH	chlorine total residual	Outfall observation			
	LIMIT		Ave 20 - Max 30	Ave 534 - Max 900	Min 6.5 - Max 9.0	0.038				
DAY	UNITS					0	1			
01		2.00				0	1			
02		2.15				0	1			
03		2.26				0	1			
04		2.34				0	1			
05		2.28				0	1			
06		2.31				0	1			
07		2.23				0	1			
08		2.52 GRAB	10	210.17	7.9	0	1			
09		3.20				0	1			
10		3.20				0	1			
11		3.20				0	1			
12		3.07				0	1			
13		2.75				0	1			
14		2.61 GRAB	9	195.91	7.9	0	1			
15		2.37				0	1			
16		2.23				0	1			
17		2.14				0	1			
18		2.16				0	1			
19		2.16				0	1			
20		2.12				0	1			
21		2.09				0	1			
22		2.08 GRAB	5	86.74	7.7	0	1			
23		2.08				0	1			
24		2.11				0	1			
25		2.08				0	1			
26		2.08				0	1			
27		2.07				0	1			
28		2.07 GRAB	28	483.39	7.8	0	1			
29		2.11				0	1			
30		2.06				0	1			
31		2.04				0	1			
	TOTAL	72.1700	52	976.21	31.3	0	31			
	AVERAGE	2.3281	13	244.05	7.8	0	1			

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information I believe the submitted information is true accurate and complete I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment See 18 U S C §1001 and 33 U S C §1319 *(Penalties under these statutes may include fines up to $10 000 and or maximum imprisonment of between 6 months and 5 years*

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
Mark T Reed — Mark Reed, General Mgr.	James M. Hosking W-2444	04/08/2002

Form Approved
OMB No 2040-0004

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMIT NUMBER: MI0001341
DISCHARGE NUMBER: 001 A

MINOR
(SUBR PP)
F - FINAL
001 KALAMAZOO RIVER

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME: MICH CARTON & PAPERBOARD CO
ADDRESS: 79 EAST FOUNTAIN STREET
BATTLE CREEK MI 49017

FACILITY LOCATION: MICH CARTON & PAPERBOARD CO
BATTLE CREEK MI 49017
ATTN: JAMES HOSKING

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	02	03	01	TO	02	03	31

*** NO DISCHARGE |__| ***

NOTE: Read instructions before completing this form.

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	UNITS	QUALITY OR CONCENTRATION MINIMUM	QUALITY OR CONCENTRATION AVERAGE	QUALITY OR CONCENTRATION MAXIMUM	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
PH	SAMPLE MEASUREMENT	******	******		7.7	******	7.9	(12)	0	01/07	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	6.5 DAILY MN	******	9.0 DAILY MX	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT			(26)	******	13	28	(19)	0	01/07	GRAB
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	534 MO AVG	800 DAILY MX	LBS/DY	******	20 MO AVG	30 DAILY MX	MG/L		WEEKLY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	2.3281	3.20	(03)	******	******	******		0		
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MX	MGD	******	******	******	**** ****		DAILY	RCDFLO
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	******	******		******	******	0	(28)	0		
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	38 DAILY MX	UG/L		DAILY	GRAB
OUTFALL OBSERVATION, VISUAL, Y/N RESPONSE	SAMPLE MEASUREMENT	1	******	(94)	******	******	******		0		
84130 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO TOTAL	******	ES=1 NO=0	******	******	******	**** ****		DAILY	VISUAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
Mark Reed, General Mgr.
TYPED OR PRINTED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

James M Hosking N-2444
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
616	963-4004	2002	04	08
AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Q=CONTINUOUS-GREAT THAN 160 MIN/DAY
Did not chlorinate
R=INTERMITTENT-LESS THAN/EQUAL TO 160 MIN/DAY

EQP 46[illegible] 1 (Rev 5/96)

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
SURFACE WATER QUALITY DIVISION DEQ

DAILY DISCHARGE MONITORING REPORT

Please refer to the reverse side of this report for information and instructions

PERMITTEE'S NAME: Michigan Carton and Paperboard Company
PERMITTEE'S ADDRESS: 79 East Fountain Street
CITY STATE ZIP CODE: Battle Creek Michigan 49017

FACILITY NAME AND LOCATION (If different than Permittee):

DISCHARGE NUMBER	PERMIT NUMBER
001	MI 0001341

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
FROM	2002	04	01	TO	2002	04	30

	PAR #	50050	00530	00530	00400	50060	84130			
	PARAMETER	Flow conduit MGD	Suspended, solids mg/L	Suspended, solids lbs/day	pH	Chlorine, total residual	Outfall observation			
	LIMIT		Ave 20 - Max 30	Ave 534 - Max 900	Min 6.5 - Max 9.0	0.038				
DAY	UNITS									
01		2.07				0	1			
02		2.13				0	1			
03		2.06				0	1			
04		1.96				0	1			
05		2.12 Grab	8	141.45	7.9	0	1			
06		2.08				0	1			
07		2.07				0	1			
08		2.42				0	1			
09		2.79				0	1			
10		2.84				0	1			
11		2.66				0	1			
12		2.64 GRAB	10	220.18	8.0	0	1			
13		2.78				0	1			
14		2.65				0	1			
15		2.43				0	1			
16		2.33				0	1			
17		2.19				0	1			
18		2.15				0	1			
19		2.08 GRAB	14	242.86	8.0	0	1			
20		2.00				0	1			
21		2.00				0	1			
22		1.95				0	1			
23		1.95				0	1			
24		1.98				0	1			
25		1.98				0	1			
26		2.09 GRAB	22	383.47	8.0	0	1			
27		2.18				0	1			
28		2.24				0	1			
29		2.09				0	1			
30		2.15				0	1			
31										
	TOTAL	67.0600	54	987.96	31.9	0	30			
	AVERAGE	2.2410	13.5	246.99	8.0	0	1			

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information I believe the submitted information is true accurate and complete I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment See 18 U S C §1001 and 33 U S C §1319 *(Penalties under these statutes may include fines up to $10 000 and or maximum imprisonment of between 6 months and 5 years*

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
Mark Reed, General Manager	James M Holling W-2444	05/06/2002

Form Approved
OMB No 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME MICH CARTON & PAPERBOARD CO
ADDRESS 79 EAST FOUNTAIN STREET
BATTLE CREEK MI 49017

FACILITY MICH CARTON & PAPERBOARD CO
LOCATION BATTLE CREEK MI 49017
ATTN: JAMES HOSKING

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

MI0001341 — PERMIT NUMBER
001 A — DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	02	04	01	TO	02	04	30

MINOR
(SUBR PP)
F - FINAL
001 KALAMAZOO RIVER

*** NO DISCHARGE |__| ***
NOTE: Read instructions before completing this form.

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	UNITS	QUALITY OR CONCENTRATION MINIMUM	QUALITY OR CONCENTRATION AVERAGE	QUALITY OR CONCENTRATION MAXIMUM	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
PH	SAMPLE MEASUREMENT	******	******		7.9	******	8.0	(12)	0	01/07	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	6.5 DAILY MN	******	9.0 DAILY MX	SU		1/WEEK	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	246.99	383.47	(26)	******	13.5	22	(19)	0	01/07	GRAB
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	534 MO AVG	1,800 DAILY MX	LBS/DY	******	30 MO AVG	150 DAILY MX	MG/L		1/WEEK	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	2.2410	2.84	(03)	******	******	******		0		
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MX	MGD	******	******	******	**** ****		DAILY	CONTLG
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	******	******		******	******	0	(28)	0		
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	38 DAILY MX	UG/L		DAILY	GRAB
OUTFALL OBSERVATION, VISUAL, Y/N RESPONSE	SAMPLE MEASUREMENT	1	******	(94)	******	******	******		0		
84130 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO TOTAL	******	YES=1 NO=0	******	******	******	**** ****		DAILY	VISUAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
Mark Reed, General Mgr.
TYPED OR PRINTED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

James M. Hoskins N.2444
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
616	963-4004	2002	05	06
AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
Q=CONTINUOUS-GREAT THAN 160 MIN/DAY R=INTERMITTENT-LESS THAN/EQUAL TO 160 MIN/DAY
Did not chlorinate

EQP 1612 1 (Rev 5/96)

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
SURFACE WATER QUALITY DIVISION DEQ

DAILY DISCHARGE MONITORING REPORT

Please refer to the reverse side of this report for information and instructions

PERMITTEE'S NAME: Michigan Carton and Paperboard Company

PERMITTEE'S ADDRESS: 79 East Fountain Street

CITY STATE ZIP CODE: Battle Creek, Michigan 49017

FACILITY NAME AND LOCATION (If different than Permittee):

DISCHARGE NUMBER	PERMIT NUMBER
001	MI 0001341

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
FROM	2002	05	01	TO	2002	05	31

	PAR #	50050	00530	85002	00400	50060	00015	00011		
	PARAMETER	Flow Conduit MGD	Solids-suspended mg/L	Solids-suspended lbs/day	pH	chlorine-total residual	outfall observation			
	LIMIT		Ave 20 - Max 30	Ave 534 - Max 900	Min 6.5 - Max 9.0	0.038				
DAY	UNITS									
01		2.06				0	1			
02		1.95				0	1			
03		2.00 GRAB	8	133.44	7.7	0	1			
04		1.89				0	1			
05		1.88				0	1			
06		1.93				0	1			
07		1.85				0	1			
08		1.85				0	1			
09		1.90 GRAB	9	142.61	7.5	0	1			
10		1.71				0	1			
11		1.84				0	1			
12		2.74				0	1			
13		0.92 Mill	Down			0	1			
14		0.75 Mill	Down			0	1			
15		0.72 Mill	Down			0	1			
16		3.07				0	1			
17		2.79 GRAB	15	349.03	8.0	0	1			
18		2.41				0	1			
19		2.08				0	1			
20		1.96				0	1			
21		2.10				0	1			
22		2.01				0	1			
23		2.00				0	1			
24		2.15 GRAB	14	261.03	7.4	0	1			
25		2.09				0	1			
26		2.12				0	1			
27		2.12				0	1			
28		2.12				0	1			
29		2.08				0	1			
30		2.16 GRAB	12	216.17	7.9	0	1			
31		2.19				0	1			
	TOTAL	61.44	58	1092.29	38.5	0	31			
	AVERAGE	1.9819	11.6	218.46	7.7	0	1			

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information I believe the submitted information is true accurate and complete I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment See 18 U S C §1001 and 33 U S C §1319 *(Penalties under these statutes may include fines up to $10 000 and or maximum imprisonment of between 6 months and 5 years*

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
Mark Reed, General Mgr.	James M. McNamy W-2444	06/07/2002

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME MICH CARTON & PAPERBOARD CO

ADDRESS 79 EAST FOUNTAIN STREET
BATTLE CREEK MI 49017

FACILITY MICH CARTON & PAPERBOARD CO

LOCATION BATTLE CREEK MI 49017

ATTN: JAMES HOSKING

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OMB No 2040-0004

PERMIT NUMBER	DISCHARGE NUMBER
MI0001341	001 A

MINOR
(SUBR PP)
F - FINAL
001 KALAMAZOO RIVER

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	02	05	01	TO	02	05	31

*** NO DISCHARGE | __ | ***

NOTE: Read instructions before completing this form.

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	UNITS	QUALITY OR CONCENTRATION MINIMUM	QUALITY OR CONCENTRATION AVERAGE	QUALITY OR CONCENTRATION MAXIMUM	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
PH	SAMPLE MEASUREMENT	******	******		7.4	******	8.0	(12)	0	01/07	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	6.5 DAILY MN	******	9.0 DAILY MX	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	218.46	349.03	(26)	******	11.6	15	(19)	0	01/07	GRAB
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	534 MO AVG	800 DAILY MX	LBS/DY	******	20 MO AVG	30 DAILY MX	MG/L		WEEKLY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	1.9819	3.07	(03)	******	******	******		0		
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MX	MGD	******	******	******	**** ****		DAILY	RCDFLO
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	******	******		******	******	0	(28)	0		
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	38 DAILY MX	UG/L		DAILY	GRAB
OUTFALL OBSERVATION, VISUAL, Y/N RESPONSE	SAMPLE MEASUREMENT	1	******	(94)	******	******	******		0		
84130 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO TOTAL	******	YES=1 NO=0	******	******	******	**** ****		DAILY	VISUAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark Reed, General Mgr.	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	James M Hosking W-2444	616	963-4004	2002	06	07
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Q=CONTINUOUS-GREAT THAN 160 MIN/DAY Did not chlorinate R=INTERMITTENT-LESS THAN/EQUAL TO 160 MIN/DAY

EQP 4612 1 (Rev 5/96)

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
SURFACE WATER QUALITY DIVISION DEQ

DAILY DISCHARGE MONITORING REPORT

Please refer to the reverse side of this report for information and instructions

PERMITTEE'S NAME: Michigan Carton and Paperboard Company

PERMITTEE'S ADDRESS: 79 East Fountain Street

CITY STATE ZIP CODE: Battle Creek, Michigan 49017

FACILITY NAME AND LOCATION (If different than Permittee):

DISCHARGE NUMBER	PERMIT NUMBER
001	MI0001341

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
FROM	2002	06	01	TO	2002	06	30

	PAR #	50050	00530	85002	00400	50060	00015			
	PARAMETER	Flow conduit MGD	Solids - Suspended mg/L	Solids - suspended lbs/day	pH	Chlorine - total residual	Outfall observation			
	LIMIT		Ave 20 - Max 30	Ave 534 - Max 900	Min 6.5 - Max 9.0	0.038				
DAY	UNITS									
01		2.15				0	1			
02		2.11				0	1			
03		2.08				0	1			
04		2.05				0	1			
05		2.04				0	1			
06		2.03				0	1			
07		2.04 GRAB	11	187.15	7.7	0	1			
08		2.04				0	1			
09		2.03				0	1			
10		2.07				0	1			
11		2.08				0	1			
12		2.06				0	1			
13		2.03 GRAB	8	135.44	7.9	0	1			
14		2.10				0	1			
15		2.03				0	1			
16		1.99				0	1			
17		1.97				0	1			
18		1.96				0	1			
19		1.98				0	1			
20		1.95				0	1			
21		2.02 GRAB	11	185.31	7.7	0	1			
22		2.06				0	1			
23		2.04				0	1			
24		2.09				0	1			
25		2.05				0	1			
26		2.09				0	1			
27		2.05 GRAB	13	222.26	7.7	0	1			
28		2.06				0	1			
29		2.13				0	1			
30		2.18				0	1			
31										
	TOTAL	61.56	43	730.16	31	0	30			
	AVERAGE	2.0520	10.75	182.54	7.8	0	1			

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information I believe the submitted information is true accurate and complete I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment See 18 U S C §1001 and 33 U S C §1319 *(Penalties under these statutes may include fines up to $10 000 and or maximum imprisonment of between 6 months and 5 years*

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
Mark Reed, General Mgr.	James M Storking W-2444	07/08/2002

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME MICH CARTON & PAPERBOARD CO
ADDRESS 79 EAST FOUNTAIN STREET
BATTLE CREEK MI 49017

FACILITY MICH CARTON & PAPERBOARD CO
LOCATION BATTLE CREEK MI 49017
ATTN: JAMES HOSKING

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved.
OMB No. 2040-0004

PERMIT NUMBER	DISCHARGE NUMBER
MI0001341	001 A

MINOR
(SUBR PP)
F - FINAL
001 KALAMAZOO RIVER

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	02	06	01	TO	02	06	30

*** NO DISCHARGE |__| ***
NOTE: Read instructions before completing this form.

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUALITY OR CONCENTRATION MINIMUM	QUALITY OR CONCENTRATION AVERAGE	QUALITY OR CONCENTRATION MAXIMUM	QUALITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
PH	SAMPLE MEASUREMENT	******	******		7.7	******	7.9	(12)	0	01/07	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	6.5 DAILY MN	******	9.0 DAILY MX	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	182.54	222.26	(26)	******	10.75	13	(19)	0	01/07	GRAB
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	534 MO AVG	800 DAILY MX	LBS/DY	******	20 MO AVG	30 DAILY MX	MG/L		WEEKLY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	2.0520	2.18	(03)	******	******	******		0		
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MX	MGD	******	******	******	**** ****		DAILY	RECPLC
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	******	******		******	******	0	(28)	0		
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	38 DAILY MX	UG/L		DAILY	GRAB
OUTFALL OBSERVATION, VISUAL, Y/N RESPONSE	SAMPLE MEASUREMENT	1	******	(94)	******	******	******		0		
84130 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO TOTAL	******	YES=1 NO=0	******	******	******	**** ****		DAILY	VISUAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark Reed, General Mgr.	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	James M. Hosking W-2444 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	616	963.4004	2002	07	08
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
Q=CONTINUOUS-GREAT THAN 160 MIN/DAY R=INTERMITTENT-LESS THAN/EQUAL TO 160 MIN/DAY
Did not Chlorinate

EQP 4612-1 (Rev 5/96)

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
SURFACE WATER QUALITY DIVISION DEQ

DAILY DISCHARGE MONITORING REPORT

Please refer to the reverse side of this report for information and instructions

DISCHARGE NUMBER	PERMIT NUMBER
001	MI 0001341

PERMITTEE'S NAME: Michigan Carton and Paperboard Company

PERMITTEE'S ADDRESS: 79 East Fountain Street

CITY STATE ZIP CODE: Battle Creek Michigan 49017

FACILITY NAME AND LOCATION (If different than Permittee):

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
FROM	2002	07	01	TO	2002	07	31

	PAR #	50050	00530	85002	00400	50060	00015			
	PARA METER	Flow conv't MGD	Solids suspended mg/L	Solids-suspended lbs/day	pH	Chlorine-total residual	Outfall observation			
	LIMIT		Ave 20 - Max 30	Ave 534 - Max 900	Min 6.5 - Max 9.0	0.038				
DAY	UNITS									
01		2.16				0	1			
02		2.12				0	1			
03		2.14				0	1			
04		2.12				0	1			
05		2.08 Grab	6	104.08	7.9	0	1			
06		2.03				0	1			
07		2.03				0	1			
08		2.24				0	1			
09		2.29				0	1			
10		2.22				0	1			
11		2.20				0	1			
12		2.21 Grab	9	165.88	8.1	0	1			
13		2.22				0	1			
14		2.19				0	1			
15		2.22				0	1			
16		2.24				0	1			
17		2.26				0	1			
18		1.88				0	1			
19		2.32 Grab	10	193.49	7.7	0	1			
20		2.32				0	1			
21		2.29				0	1			
22		2.32				0	1			
23		2.24				0	1			
24		2.17				0	1			
25		2.14				0	1			
26		2.24 Grab	8	149.45	7.6	0	1			
27		2.54				0	1			
28		2.31				0	1			
29		2.48				0	1			
30		2.27				0	1			
31		2.30				0	1			
	TOTAL	68.7980	33	612.90	31.3	0	31			
	AVERAGE	2.2190	8.25	153.23	7.8	0	1			

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information I believe the submitted information is true accurate and complete I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment See 18 U S C §1001 and 33 U S C §1319 *(Penalties under these statutes may include fines up to $10 000 and or maximum imprisonment of between 6 months and 5 years*

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
Mark Reed — Mark Reed, General Mgr.	James M. Stoking W-2444	08/08/2002

Form Approved
OMB No 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME MICH CARTON & PAPERBOARD CO
ADDRESS 79 EAST FOUNTAIN STREET
BATTLE CREEK MI 49017

FACILITY MICH CARTON & PAPERBOARD CO
LOCATION BATTLE CREEK MI 49017
ATTN: JAMES HOSKING

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMIT NUMBER	DISCHARGE NUMBER
MI0001341	001 A

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	02	07	01	TO	02	07	31

(SUBR PP)
F - FINAL
001 KALA AZOO RIVER
NO DISCHARGE

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	UNITS	QUALITY OR CONCENTRATION MINIMUM	QUALITY OR CONCENTRATION AVERAGE	QUALITY OR CONCENTRATION MAXIMUM	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
PH	SAMPLE MEASUREMENT	******	******		7.6		8.1	(12)	0	01/07	Grab
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	******	6.5 DAILY MN	******	9.0 DAILY MX	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	153.23	193.49	(26)	******	8.25	10	(19)	0	01/07	Grab
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	534 MO AVG	800 DAILY MX	LBS/DY	******	20 MO AVG	30 DAILY MX	MG/L		WEEKLY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	2.2190	2.54	(03)	******				0		
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MX	MGD	******	******	******			DAILY	RCDFLO
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	******	******		******		0	(28)	0		
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	******	******	******	38 DAILY MX	UG/L		DAILY	GRAB
OUTFALL OBSERVATION, VISUAL, Y/N RESPONSE	SAMPLE MEASUREMENT	1	******	(94)	******				0		
84130 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO TOTAL	******	YES=1 NO=0	******	******	******			DAILY	VISUAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
Mark Reed
Mark Reed, General Mgr.
TYPED OR PRINTED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

James M Hosking W-2444
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE AREA CODE	TELEPHONE NUMBER	DATE YEAR	DATE MO	DATE DAY
616	963-4004	2002	08	08

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
Q=CONTINUOUS-GREAT THAN 160 MIN/DAY
160 MIN/DAY
Did not chlorinate
R=INTERMITTENT-LESS THAN/EQUAL TO

EPA Form 3320 1 (Rev 3 99) Previous editions may be used
This is a 4-part form
PAGE OF

EQP 46'2 1 (Rev 5/96)

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
SURFACE WATER QUALITY DIVISION DEQ

DAILY DISCHARGE MONITORING REPORT

Please refer to the reverse side of this report for information and instructions

PERMITTEE'S NAME: Michigan Carton and Paperboard Company
PERMITTEE'S ADDRESS: 79 East Fountain Street
CITY STATE ZIP CODE: Battle Creek, Michigan 49017

FACILITY NAME AND LOCATION (If different than Permittee):

DISCHARGE NUMBER	PERMIT NUMBER
001	MI 0001341

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
FROM	2002	08	01	TO	2002	08	31

	PAR #	50050	00530	85002	00400	50060	00015			
	PARA METER	Flow Conduit MGD	Solids suspended mg/L	Solids - Suspended lbs/Day	pH	Chlorine - total residual	Outfall observation			
	LIMIT		Ave 20 - Max 30	Ave 534 - Max 900	Min 6.5 - Max 9.0	0.038				
DAY	UNITS									
01		2.50				0	1			
02		2.33 GRAB	12	233.19	7.6	0	1			
03		2.33				0	1			
04		2.37				0	1			
05		2.34				0	1			
06		2.32				0	1			
07		2.30				0	1			
08		2.25				0	1			
09		2.37 GRAB	7	138.36	7.9	0	1			
10		2.38				0	1			
11		2.37				0	1			
12		2.36				0	1			
13		2.42				0	1			
14		2.47				0	1			
15		2.45 GRAB	6	122.60	7.9	0	1			
16		2.43				0	1			
17		2.43				0	1			
18		2.46				0	1			
19		2.47				0	1			
20		2.41				0	1			
21		2.42				0	1			
22		2.43				0	1			
23		2.48 GRAB	12	248.20	8.0	0	1			
24		2.45				0	1			
25		2.39				0	1			
26		2.38				0	1			
27		2.39				0	1			
28		2.45				0	1			
29		2.48				0	1			
30		2.46 GRAB	13	266.71	7.9	0	1			
31		2.48				0	1			
	TOTAL	74.57	50	1009.06	39.3	0	31			
	AVERAGE	2.4055	10	201.81	7.9	0	1			

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information I believe the submitted information is true accurate and complete I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment See 18 U S C §1001 and 33 U S C §1319 *(Penalties under these statutes may include fines up to $10 000 and or maximum imprisonment of between 6 months and 5 years*

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
Mark Reed, General Mgr.	James M. Stoking W-2444	09/09/2002

Form Approved
OMB No 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME MICH CARTON & PAPERBOARD CO
ADDRESS 79 EAST FOUNTAIN STREET
BATTLE CREEK MI 49017

FACILITY MICH CARTON & PAPERBOARD CO
LOCATION BATTLE CREEK MI 49017
ATTN: JAMES HOSKING

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*
DISCHARGE MONITORING REPORT *(DMR)*

PERMIT NUMBER	DISCHARGE NUMBER
MI0001341	001 A

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	02	08	01	TO	02	08	31

MINOR
(SUBR PT)
F - FINAL
001 KALAMAZOO RIVER

NO DISCHARGE |__|

NOTE: Read instructions before completing this form.

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	UNITS	QUALITY OR CONCENTRATION MINIMUM	QUALITY OR CONCENTRATION AVERAGE	QUALITY OR CONCENTRATION MAXIMUM	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
PH	SAMPLE MEASUREMENT	******	******		7.6	******	8.0	(12)	0	01/07	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	6.5 DAILY MN	******	9.0 DAILY MX	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	201.81	266.71	(26)	******	10	13	(19)	0	01/07	GRAB
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	534 MO AVG	800 DAILY MX	LBS/DY	******	20 MO AVG	30 DAILY MX	MG/L		WEEKLY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	2.4055	2.50	(03)	******	******			0		
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MX	MGD	******	******	******			DAILY	RCDFLO
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	******	******		******	******	0	(28)	0		
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	******	******	38 DAILY MX	UG/L		DAILY	GRAB
OUTFALL OBSERVATION, VISUAL, Y/N RESPONSE	SAMPLE MEASUREMENT	1	******	(94)	******	******					
84130 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO TOTAL	******	YES=1 NO=0	******	******	******			DAILY	VISUAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Mark Reed

Mark Reed, General Mgr.
TYPED OR PRINTED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

James M. Hosking W-2444
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE AREA CODE	TELEPHONE NUMBER	DATE YEAR	DATE MO	DATE DAY
269	963-4004	2002	09	09

COMMENTS AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

Q=CONTINUOUS-GREAT THAN 160 MIN/DAY

Did not chlorinate

R=INTERMITTENT-LESS THAN/EQUAL TO 160 MIN/DAY

EQP 4612-1 (Rev 5/96)

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
SURFACE WATER QUALITY DIVISION DEQ

DAILY DISCHARGE MONITORING REPORT

Please refer to the reverse side of this report for information and instructions

PERMITTEE'S NAME: Michigan Carton and Paperboard Company
PERMITTEE'S ADDRESS: 79 East Fountain Street
CITY STATE ZIP CODE: Battle Creek, Michigan 49017

FACILITY NAME AND LOCATION (If different than Permittee):

DISCHARGE NUMBER: 001
PERMIT NUMBER: MI 0001341

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
FROM	2002	09	01	TO	2002	09	30

DAY	PAR #	50050	00530	85002	00400	50060	00015			
	PARA METER	Flow Conduit MGD	Solids, suspended mg/L	Solids, Suspended lbs/DAY	pH	chlorine, total residual	Outfall observation			
	LIMIT		Ave 20 - Max 30	Ave 534 - Max 900	Min 6.5 - Max 9.0	0.038				
	UNITS									
01		2.46				0	1			
02		2.42				0	1			
03		2.44				0	1			
04		2.41				0	1			
05		2.47				0	1			
06		2.45 GRAB	15	306.50	7.8	0	1			
07		2.42				0	1			
08		2.39				0	1			
09		2.42				0	1			
10		2.43				0	1			
11		2.44				0	1			
12		2.25				0	1			
13		2.40 GRAB	16	320.26	8.0	0	1			
14		2.42				0	1			
15		2.40				0	1			
16		2.36				0	1			
17		2.37				0	1			
18		2.35				0	1			
19		2.48 GRAB	5	103.42	7.7	0	1			
20		2.40				0	1			
21		2.38				0	1			
22		2.25				0	1			
23		2.09				0	1			
24		2.06				0	1			
25		2.08				0	1			
26		2.27 GRAB	8	151.45	7.4	0	1			
27		2.40				0	1			
28		2.42				0	1			
29		2.50				0	1			
30		2.49				0	1			
31										
	TOTAL	71.0700	44	881.62	30.9	0	30			
	AVERAGE	2.3690	11	220.41	7.7	0	1			

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See 18 U.S.C. §1001 and 33 U.S.C. §1319. *(Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)*

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT: Mark Reed, General Mgr.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT: James M. Stirling W.2444

DATE: 10/08/2002

Form Approved
OMB No 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME MICH CARTON & PAPERBOARD CO
ADDRESS 79 EAST FOUNTAIN STREET
BATTLE CREEK MI 49017

FACILITY MICH CARTON & PAPERBOARD CO
LOCATION BATTLE CREEK MI 49017
ATTN: JAMES HOSKING

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMIT NUMBER	DISCHARGE NUMBER
MI0001341	001 A

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	02	09	01	TO	02	09	30

MINOR
(SUBR PP)
F - FINAL
001 KALAMAZOO RIVER

*** NO DISCHARGE |__| ***

NOTE: Read instructions before completing this form.

PARAMETER		QUANTITY OR LOADING AVERAGE	MAXIMUM	UNITS	QUALITY OR CONCENTRATION MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
PH	SAMPLE MEASUREMENT	******	******		7.4	******	8.0	(12)	0	01/07	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	[illegible]	[illegible]	*** ****	[illegible]	[illegible]	9.0 DAILY MX	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	220.41	320.26	(26)	******	11	16	(19)	0	01/07	GRAB
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	534 MO AVG	800 DAILY MX	LBS/DY	[illegible]	20 MO AVG	30 DAILY MX	MG/L		WEEKLY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	2.3690	2.50	(03)	******	******	******		0		
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MX	MGD	[illegible]	[illegible]	[illegible]	*** ****		DAILY	RODFLO
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	******	******		******	******	0	(28)	0		
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	[illegible]	[illegible]	*** ****	[illegible]	[illegible]	38 DAILY MX	UG/L		DAILY	GRAB
OUTFALL OBSERVATION, VISUAL, Y/N RESPONSE	SAMPLE MEASUREMENT	1	******	(94)	******	******	******		0		
84130 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO TOTAL	[illegible]	ES=1 NO=0	[illegible]	[illegible]	[illegible]	*** ****		DAILY	VISUAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
Mark Reed, General Mgr.
TYPED OR PRINTED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

James M. Hosking W-2444
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE AREA CODE	NUMBER	DATE YEAR	MO	DAY
616	963-4004	2002	10	08

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Q=CONTINUOUS-GREAT THAN 160 MIN/DAY
160 MIN/DAY

Did not chlorinate

R=INTERMITTENT-LESS THAN/EQUAL TO

FOP 1-1-1 (Rev. 5-96)

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
SURFACE WATER QUALITY DIVISION DEQ

DAILY DISCHARGE MONITORING REPORT

Please refer to the reverse side of this report for information and instructions

PERMITTEE'S NAME: Michigan Carton and Paperboard Company
PERMITTEE'S ADDRESS: 79 East Fountain Street
CITY, STATE, ZIP CODE: Battle Creek, Michigan 49017

FACILITY NAME AND LOCATION (If different than Permittee):

DISCHARGE NUMBER	PERMIT NUMBER
001	MI 0001341

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
FROM	2002	10	01	TO	2002	10	31

DAY	PAR #	50050	00530	85002	00400	50060	00015			
	PARAMETER	Flow conduit MGD	Solids - suspended mg/L	Solids - suspended lbs/day	pH	Chlorine - total residual	Outfall observation			
	LIMIT		Ave 20 - Max 30	Ave 534 - Max 900	Min 6.5 - Max 9.0	0.038				
	UNITS									
		2.51				0	1			
		2.51				0	1			
		2.40				0	1			
		2.53 GRAB	5	105.50	8.0	0	1			
		2.38				0	1			
06		2.38				0	1			
		2.36				0	1			
08		2.40				0	1			
09		2.44				0	1			
10		2.46				0	1			
		2.43 GRAB	8	162.13	7.8	0	1			
		2.44				0	1			
		2.38				0	1			
		2.41				0	1			
		2.38				0	1			
		2.42				0	1			
		2.46				0	1			
14		2.39 GRAB	8	159.46	7.9	0	1			
15		2.35				0	1			
		2.32				0	1			
		2.34				0	1			
22		2.33				0	1			
23		2.36				0	1			
24		2.40				0	1			
		2.43 GRAB	11	222.93	7.7	0	1			
26		2.35				0	1			
27		2.31				0	1			
28		2.39				0	1			
29		2.41				0	1			
		2.40 GRAB	3	60.65	8.0	0	1			
		2.40				0	1			
	TOTAL	74.47	35	710.07	39.4	0	31			
	AVERAGE	2.4023	7	142.01	7.9	0	1			

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See 18 U.S.C. §1001 and 33 U.S.C. §1319. (Penalties under these statutes may include fines up to $10,000 and/or imprisonment between 6 months and 5 years.)

NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
Mark Reed, General Mgr.	James M. Hosking W-2444	11/06/2002

Form Approved
OMB No 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME MICH CARTON & PAPERBOARD CO
ADDRESS 79 EAST FOUNTAIN STREET
BATTLE CREEK MI 49017

FACILITY MICH CARTON & PAPERBOARD CO
LOCATION BATTLE CREEK MI 49017
ATTN: JAMES HOSKING

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

MI0001341	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	02	10	01	TO	02	10	31

[illegible] (SOUTH [illegible])
[illegible]
OUT [illegible] KALAMAZOO RIVER

[illegible] DISCHARGE [ ] [illegible]
NOTE: Read instructions before completing this form.

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	UNITS	QUALITY OR CONCENTRATION MINIMUM	QUALITY OR CONCENTRATION AVERAGE	QUALITY OR CONCENTRATION MAXIMUM	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
PH	SAMPLE MEASUREMENT	******	******		7.7	[illegible]	8.0	(12)	0	01/07	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	6.5 DAILY MN	******	9.0 DAILY MX	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	142.01	222.93	(26)	******	7	11	(19)	0	01/07	GRAB
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	534 MO AVG	800 DAILY MX	LBS/DY	******	20 MO AVG	30 DAILY MX	MG/L		WEEKLY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	2.4023	2.53	(03)	******	[illegible]	[illegible]		0		
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MX	MGD	******	******	******			DAILY	RCDFLO
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	******	******		******	[illegible]	0	(28)	0		
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	******	******	38 DAILY MX	UG/L		DAILY	GRAB
OUTFALL OBSERVATION, VISUAL, Y/N RESPONSE	SAMPLE MEASUREMENT	1	******	(94)	******	[illegible]			0		
84130 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO TOTAL	******	YES=1 NO=0	******	******	******			DAILY	VISUAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
Mark Reed, General Mgr.
TYPED OR PRINTED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

James M. Hosking W-2444
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE AREA CODE	NUMBER	DATE YEAR	MO	DAY
616	963-4004	2002	11	06

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
Q=CONTINUOUS-GREAT THAN 160 MIN/DAY
Did not chlorinate
R=INTERMITTENT-LESS THAN/EQUAL TO 160 MIN/DAY

EQP 4612-1 (Rev 5/96)

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
SURFACE WATER QUALITY DIVISION DEQ

DAILY DISCHARGE MONITORING REPORT

Please refer to the reverse side of this report for information and instructions

PERMITTEE'S NAME: Michigan Carton and Paperboard Company

PERMITTEE'S ADDRESS: 79 East Fountain Street

CITY STATE ZIP CODE: Battle Creek, Michigan 49017

FACILITY NAME AND LOCATION (If different than Permittee):

DISCHARGE NUMBER: 001

PERMIT NUMBER: MI 0001341

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
FROM	2002	11	01	TO	2002	11	30

	PAR #	50050	00530	85002	00400	50060	00015			
	PARA METER	Flow conduit MGD	Solids-suspended mg/L	Solids-suspended lbs/day	pH	Chlorine-total residual	Outfall observation			
	LIMIT		Ave 20 - Max 30	Ave 534 - Max 900	Min 6.5 - Max 9.0	Max 0.038				
DAY	UNITS									
01		2.44				0	1			
02		2.43				0	1			
03		2.43				0	1			
04		2.43				0	1			
05		2.48				0	1			
06		2.28				0	1			
07		2.38 GRAB	5	99.25	7.9	0	1			
08		2.31				0	1			
09		2.29				0	1			
10		2.31				0	1			
11		2.29				0	1			
12		2.25 GRAB	11	206.42	7.2	0	1			
13		2.44				0	1			
14		2.49				0	1			
15		2.35				0	1			
16		2.08				0	1			
17		2.06				0	1			
18		2.11				0	1			
19		2.12				0	1			
20		2.10				0	1			
21		2.19				0	1			
22		2.18				0	1			
23		2.15				0	1			
24		2.13				0	1			
25		2.12				0	1			
26		1.93 GRAB	6	96.58	7.4	0	1			
27		2.14				0	1			
28		2.16				0	1			
29		2.15				0	1			
30		2.17				0	1			
31										
	TOTAL	67.39	22	402.25	22.5	0	30			
	AVERAGE	2.2463	7.3	134.08	7.5	0	1			

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information I believe the submitted information is true accurate and complete I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment See 18 U.S.C. §1001 and 33 U.S.C. §1319 *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years*

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT: Mark Reed, Gen. Manager

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT: James M. Hosking N-2444

DATE: 12/09/2002

Form Approved.
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME MICH CARTON & PAPERBOARD CO
ADDRESS 79 EAST FOUNTAIN STREET
BATTLE CREEK MI 49017

FACILITY MICH CARTON & PAPERBOARD CO
LOCATION BATTLE CREEK MI 49017
ATTN: JAMES HOSKING

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*
DISCHARGE MONITORING REPORT *(DMR)*

MI0001341	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MINOR
(SUBR PP)
F - FINAL
001 KALAMAZOO RIVER

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	02	11	01	TO	02	11	30

*** NO DISCHARGE |__| ***

NOTE: Read instructions before completing this form.

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	UNITS	QUALITY OR CONCENTRATION MINIMUM	QUALITY OR CONCENTRATION AVERAGE	QUALITY OR CONCENTRATION MAXIMUM	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
PH	SAMPLE MEASUREMENT	******	******		7.2	******	7.9	(12)	0	01/07	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	6.5 DAILY MN	******	9.0 DAILY MX	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	134.08	206.42	(26)	******	7.3	11	(19)	0	01/07	GRAB
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	534 MO AVG	800 DAILY MX	LBS/DY	******	20 MO. AVG	30 DAILY MX	MG/L		WEEKLY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	2.2463	2.49	(03)	******	******	******		0		
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO. AVG	REPORT DAILY MX	MGD	******	******	******	**** ****		DAILY	RCDFLO
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	******	******		******	******	0	(28)	0		
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	******	******	38 DAILY MX	UG/L		DAILY	GRAB
OUTFALL OBSERVATION, VISUAL, Y/N RESPONSE	SAMPLE MEASUREMENT	1	******	(94)	******	******	******		0		
84130 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO TOTAL	******	YES=1 NO=0	******	******	******	**** ****		DAILY	VISUAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Mark Reed, Gen. Manager

TYPED OR PRINTED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

James M. Hosking W-2444

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
616	963-4004	2002	12	09
AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

Q=CONTINUOUS-GREAT THAN 160 MIN/DAY
160 MIN/DAY

Did not chlorinate

R=INTERMITTENT-LESS THAN/EQUAL TO

EQP 4312-1 (Rev 5/96)

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
SURFACE WATER QUALITY DIVISION DEQ

DAILY DISCHARGE MONITORING REPORT

Please refer to the reverse side of this report for information and instructions

PERMITTEE'S NAME	DISCHARGE NUMBER	PERMIT NUMBER
Michigan Carton and Paperboard Company	001	MI 0001341

PERMITTEE'S ADDRESS: 79 East Fountain Street

CITY, STATE, ZIP CODE: Battle Creek, Michigan 49017

FACILITY NAME AND LOCATION (If different than Permittee):

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
FROM	2002	12	01	TO	2002	12	31

	PAR #	50050	00530	85002	00400	50060	00015			
	PARAMETER	Flow conduit MGD	Solids - suspended mg/L	Solids - suspended lbs/day	pH	chlorine - total residual	outfall observation			
	LIMIT		Ave 20 - Max 30	Ave 534 - Max 900	Min 6.5 - Max 9.0	Max 0.038				
DAY	UNITS									
01		2.13				0	1			
02		2.04				0	1			
03		1.96				0	1			
04		2.03				0	1			
05		2.07				0	1			
06		2.18 GRAB	6	109.09	7.8	0	1			
07		2.25				0	1			
08		2.14				0	1			
09		2.61				0	1			
10		2.16				0	1			
11		1.99				0	1			
12		1.73				0	1			
13		1.96 GRAB	8	130.77	7.9	0	1			
14		1.97				0	1			
15		2.01				0	1			
16		1.80				0	1			
17		1.97				0	1			
18		1.98				0	1			
19		2.03				0	1			
20		1.93				0	1			
21		1.95 GRAB	9	146.37	7.9	0	1			
22		1.96				0	1			
23		0.69 Mill Down				0	1			
24		1.02 Mill Down				0	1			
25		1.01 Mill Down				0	1			
26		1.78				0	1			
27		1.92 GRAB	10	160.13	7.8	0	1			
28		1.99				0	1			
29		2.04				0	1			
30		2.01				0	1			
31		2.03				0	1			
	TOTAL	59.34	33	546.35	30.8	0	31			
	AVERAGE	1.9142	8.25	136.59	7.7	0	1			

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information I believe the submitted information is true accurate and complete I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment See 18 U.S.C. §1001 and 33 U.S.C. §1319 *(Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years*

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
Mark Reed, General Mgr.	James M. Stokes W-2444	01/08/03

Form Approved
OMB No 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*
NAME MICH CARTON & PAPERBOARD CO
ADDRESS 79 EAST FOUNTAIN STREET
BATTLE CREEK MI 49017

FACILITY MICH CARTON & PAPERBOARD CO
LOCATION BATTLE CREEK MI 49017
ATTN: JAMES HOSKING

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*
DISCHARGE MONITORING REPORT *(DMR)*

MI0001341	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MINO
(SUBR PP)
F - FINAL
001 KALAMAZOO RIVER

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	02	12	01	TO	02	12	31

*** NO DISCHARGE |__| ***

NOTE: Read instructions before completing this form.

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	UNITS	QUALITY OR CONCENTRATION MINIMUM	QUALITY OR CONCENTRATION AVERAGE	QUALITY OR CONCENTRATION MAXIMUM	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
PH	SAMPLE MEASUREMENT	******	******		7.2	**	7.9	(12)	0	01/07	Grab
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	6.5 DAILY MN	******	9.0 DAILY MX	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	136.59	160.13	(26)	******	8.25	10	(19)	0	01/07	Grab
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	534 MO AVG	800 DAILY MX	LBS/DY	******	20 MO AVG	30 DAILY MX	MG/L		WEEKLY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	1.9142	2.61	(03)	******	**	**		0		
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MX	MGD	******	******	******			DAILY	RCDFLO
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	******	******		******	**	0	(28)	0		
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	******	******	38 DAILY MX	UG/L		DAILY	GRAB
OUTFALL OBSERVATION, VISUAL, Y/N RESPONSE	SAMPLE MEASUREMENT	1	******	(94)	******	**	**		0		
84130 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO TOTAL	******	YES=1 NO=0	******	******	******			DAILY	VISUAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Mark Reed, General Mgr.	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations.	269	963-4004	2003	01	08
TYPED OR PRINTED		AREA CODE	NUMBER	YEAR	MO	DAY

James M Hosking N/2444
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

COMMENTS AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

Q=CONTINUOUS-GREAT THAN 160 MIN/DAY Did not chlorinate R=INTERMITTENT-LESS THAN/EQUAL TO 160 MIN/DAY

ST. REGIS PAPER COMPANY
FOUNTAIN STREET PLANT
79 E. FOUNTAIN ST.
BATTLE CREEK MI 49016

MONTHLY OPERATING REPORT FOR FEBRUARY 1984 SJ

PR 46 0 Rev 9 83

THIS IS YOUR MONTHLY REPORT FORM FOR

ST. REGIS PAPER COMPANY
OUTFALL # 001
NONCONTACT COOLING & FILTER BACKWASH TO KALAMAZOO

SEE REVERSE SIDE FOR RETURN MAIL

Please complete and submit two copies of this form at the end of each month. This report must reach our Lansing office by the 10th of the month
REQUIRED BY ACT 245 PA 1929 6A

FACILITY NUMBER	PERMIT NUMBER	OUTFALL NUMBER
130069	MI0001341	130134

Date form was printed: Y 83 Mo 11 Da 4

PART 3 RETAIN THIS COPY

PARAM	50050	00530	85042	00400	50060	00015	00011
NAME	FLOW CONDUIT	SOLIDS-SUSPENDED	SOLIDS-SUSPENDED	PH	CHLORINE (TRC)	BTU-MILLION	TEMPERATURE
UNITS	MGD	MG/L	LBS/DAY	0 TO 14	MG/L	BTU/HR	F
LIMIT		AVERAGE 30 MAXIMUM	AVERAGE 234 MAXIMUM 810	MAXIMUM 9.0 MINIMUM 6.0	MAXIMUM	MAXIMUM 41	

DATE	1 DAILY AVG	HIGH	LOW	1 DAILY AVG	HIGH	LOW	1 DAILY AVG	HIGH	LOW	1 DAILY AVG	HIGH	LOW	1 DAILY AVG	HIGH	LOW	1 DAILY AVG	HIGH	LOW	1 DAILY AVG	HIGH	LOW
1	[illegible]																				
2	[illegible]																				
3	[illegible]			5.0			6.1			[illegible]			[illegible]			[illegible]					
4	[illegible]																				
5	[illegible]																				
6	1.40																				
7	[illegible]																				
8	[illegible]																				
9	1.41																				
10	[illegible]			4.0			[illegible]			[illegible]			[illegible]			[illegible]					
11	1.76																				
12	[illegible]																				
13	1.50																				
14	[illegible]																				
15	[illegible]																				
16	1.22																				
17	[illegible]			4.0			1.1			[illegible]											
18	[illegible]																				
19	[illegible]																				
20	[illegible]																				
21	[illegible]																				
22	[illegible]																				
23	[illegible]																				
24	0.20			5.0			[illegible]			[illegible]			[illegible]								
25	[illegible]																				
26	0.20																				
27	0.18																				
28	1.45																				
29	[illegible]																				
30																					
31																					

MONTHLY SUMMARY																					
	AVERAGE	[illegible]	AVERAGE	[illegible]	AVERAGE	[illegible]	AVERAGE	[illegible]	AVERAGE	[illegible]	AVERAGE	[illegible]	AVERAGE	[illegible]	AVERAGE	[illegible]	AVERAGE	[illegible]	AVERAGE	[illegible]	AVERAGE	[illegible]
	MAXIMUM	[illegible]	MAXIMUM	[illegible]	MAXIMUM	[illegible]	MAXIMUM	[illegible]	MAXIMUM	[illegible]	MAXIMUM	[illegible]	MAXIMUM	[illegible]	MAXIMUM	[illegible]	MAXIMUM	[illegible]	MAXIMUM	[illegible]	MAXIMUM	[illegible]
							MI	[illegible]													
	NUMBER DAYS REPORTING	29	NUMBER DAYS REPORTING	29	NUMBER DAYS REPORTING	29	NUMBER DAYS REPORTING	29	NUMBER DAYS REPORTING	29	NUMBER DAYS REPORTING	29	NUMBER DAYS REPORTING	29	NUMBER DAYS REPORTING	29	NUMBER DAYS REPORTING	29	NUMBER DAYS REPORTING	29	NUMBER DAYS REPORTING	29
	TOTAL SAMPLES TAKEN		TOTAL SAMPLES TAKEN	4	TOTAL SAMPLES TAKEN	4	TOTAL SAMPLES TAKEN	4	TOTAL SAMPLES TAKEN	4	TOTAL SAMPLES TAKEN	4	TOTAL SAMPLES TAKEN	4	TOTAL SAMPLES TAKEN	4	TOTAL SAMPLES TAKEN	4	TOTAL SAMPLES TAKEN	4	TOTAL SAMPLES TAKEN	4
	DAYS EXCEEDING MAX MUM	0	DAYS EXCEEDING MAXIMUM	0	DAYS EXCEEDING MAX MUM	0	DAYS EXCEEDING MAX MUM	0	DAYS EXCEEDING MAX MUM	0	DAYS EXCEEDING MAX MUM	0	DAYS EXCEEDING MAX MUM	0	DAYS EXCEEDING MAX MUM	0	DAYS EXCEEDING MAX MUM	0	DAYS EXCEEDING MAX MUM	0	DAYS EXCEEDING MAX MUM	0
	AVG MAX VOL		AVG MAX VOL		AVG MAX VOL		AVG MAX VOL		AVG MAX VOL		AVG MAX VOL		AVG MAX VOL		AVG MAX VOL		AVG MAX VOL		AVG MAX VOL		AVG MAX VOL	
BEGINNING DATE	02 01 84		DUP PUNCH 75 86		DUP PUNCH 75 86		DUP PUNCH 5 86		DUP PUNCH 5 86		DUP PUNCH 75 86		DUP PUNCH 5 86								
ENDING DATE	02 29 84 (M M D D Y)																				

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ATTACHMENTS AND THAT BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THAT THE INFORMATION IS TRUE ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT.

SIGNATURE OF CERTIFIED OPERATOR PAYSON THOMAS [illegible] CERTIFICATION NUMBER [illegible]

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER [illegible] 3/2/84 TELEPHONE NUMBER

ST. REGIS PAPER COMPANY
FOUNTAIN STREET PLANT
79 E. FOUNTAIN ST.
BATTLE CREEK MI 49016

MONTHLY OPERATING REPORT FOR FEBRUARY 1984 SJ

PR 4640 Rev 9 83

THIS IS YOUR MONTHLY REPORT FORM FOR

ST. REGIS PAPER COMPANY
OUTFALL : 001
NONCONT.COOL.& FILTER BACKWASH TO RAL.C.

SEE REVERSE SIDE FOR RETURN MAIL

Please complete and submit two copies of this form at the end of each month This report must reach our Lansing office by the 10th of the month
REQUIRED BY ACT 245 PA 1929 6A

J	FACILITY NUMBER	PERMIT NUMBER	OUTFALL NUMBER
	130069	MI0001341	130134

Date form was printed (Y Mo Day): 83/12/ 4

PART 3 RETAIN THIS COPY

PARAM	91110																															
NAME	OUTFALL OBSERV. ASSESS.																															
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I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ATTACHMENTS AND THAT BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THAT THE INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT

SIGNATURE OF CERTIFIED OPERATOR PAYSON, THOMAS A. Thomas A. Payson CERTIFICATION NUMBER W002504

ST. REGIS PAPER COMPANY
FOUNTAIN STREET PLANT
79 E. FOUNTAIN ST.
BATTLE CREEK MI 49016

MONTHLY OPERATING REPORT FOR MARCH 1984 SJ

PR 4610 Re 9 83

THIS IS YOUR MONTHLY REPORT FORM FOR

SEE REVERSE SIDE FOR RETURN MAIL

Please complete and submit two copies of this form at the end of each month This report must reach our Lansing office by the 10th of the month
REQUIRED BY ACT 245 PA 1929 6A

ST. REGIS PAPER COMPANY
OUTFALL # 001
NONCONT.COOL.& FILTER BACKWASH TO K'LOO.

J	FACILITY NUMBER	PERMIT NUMBER	OUTFALL NUMBER
	130069	MI0001341	130134

Date form was printed Y Mo Day 83/11/ 4

PART 3 RETAIN THIS COPY

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I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ATTACHMENTS AND THAT BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THAT THE INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT

SIGNATURE OF CERTIFIED OPERATOR ~~PAYSON, THOMAS A.~~ CERTIFICATION NUMBER ~~W0022504~~ W 2444

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER [illegible] TELEPHONE NUMBER 1 16 [illegible]

ST. REGIS PAPER COMPANY
FOUNTAIN STREET PLANT
79 E. FOUNTAIN ST.
BATTLE CREEK MI 49016

MONTHLY OPERATING REPORT FOR MARCH 1984 SJ

PR 4640 Rev 9 83

THIS IS YOUR MONTHLY REPORT FORM FOR

ST. REGIS PAPER COMPANY
OUTFALL # 001
NONCONT.COOL.& FILTER BACKWASH T. KAL.

SEE REVERSE SIDE FOR RETURN MAIL

Please complete and submit two copies of this form at the end of each month This report must reach our Lansing office by the 10th of the month
REQUIRED BY ACT 245 PA 1929 6A

J	FACILITY NUMBER	PERMIT NUMBER	OUTFALL NUMBER
	130069	MI0001341	13J134

Date form was printed Yr Mo Dy 84/4/4

PART 3 RETAIN THIS COPY

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SIGNATURE OF CERTIFIED OPERATOR PAYSINGER THOMAS A. CERTIFICATION NUMBER WD02504

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER W J Muelz, Jr. TELEPHONE NUMBER

ST. REGIS PAPER COMPANY
FOUNTAIN STREET PLANT
79 E. FOUNTAIN ST.
BATTLE CREEK MI 49016

MONTHLY OPERATING REPORT FOR APRIL 1984 SJ

PR 4640 Re 9 83

THIS IS YOUR MONTHLY REPORT FORM FOR

ST. REGIS PAPER COMPANY
OUTFALL : 001
NONCONT.COOL.& FILTER BACKWASH TO FALLS

SEE REVERSE SIDE FOR RETURN MAIL

Please complete and submit two copies of this form at the end of each month This report must reach our Lansing office by the 10th of the month
REQUIRED BY ACT 245 P A 1929 6A

J	FACILITY NUMBER	PERMIT NUMBER	OUTFALL NUMBER
	130069	MI0001341	130134

Date form was printed Y Mo Da 84 05 11

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SIGNATURE OF CERTIFIED OPERATOR ~~PAYSON, THOMAS A.~~ CERTIFICATION NUMBER ~~4-C25-4~~

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER TELEPHONE NUMBER

~~ST. REGIS PAPER COMPANY~~
JNTAI, JTREET PLANT
_. FOUNTAIN ST.
ATTLE CREEK MI 49_16

MONTHLY OPERATING REPORT FOR APRIL 1984 SJ

PR 46 0 Rev 9 83

THIS IS YOUR MONTHLY REPORT FORM FOR

~~ST. REGIS PAPER COMPANY~~
OUTFALL : 001
NONCONT.COOL.& FILTER BACKWAS T KAL. .

SEE REVERSE SIDE FOR RETURN MAIL

Please complete and submit two copies of this form at the end of each month This report must reach our Lansing office by the 10th of the month
REQUIRED BY ACT 245 P A 1929 6A

J	FACILITY NUMBER	PERMIT NUMBER	OUTFALL NUMBER
	130069	MI0001341	136134

Date form was printed Y M Da 83/1-/ 4

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I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ATTACHMENTS AND THAT BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION BELIEVE THAT THE INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT

SIGNATURE OF CERTIFIED OPERATOR ~~PAYSONE THOMAS A.~~ CERTIFICATION NUMBER ~~W002504~~

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER TELEPHONE NUMBER

MICHIGAN PAPER C
~~ST. REGIS PAPER COMPANY~~
FOUNTAIN STREET PLANT
79 E. FOUNTAIN ST.
BATTLE CREEK MI 49 16

MONTHLY OPERATING REPORT FOR MAY 1984

PR 464 Re 9

THIS IS YOUR MONTHLY REPORT FORM FOR

SEE REVERSE SIDE FOR RETURN MAIL

Please complete and submit two copies of this form at the end of each month. This report must reach our Lansing office by the 10th of the month
REQUIRED BY ACT 245 PA 1929 6A

~~ST. REGIS PAPER COMPANY~~
OUTFALL # 001
NONCONT.COOLING FILTER BACKWASH TO MAIN

J	FACILITY NUMBER	PERMIT NUMBER	OUTFALL NUMBER
	130069	MI0001341	130134

Date form was printed M D

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I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ATTACHMENTS AND THAT BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THAT THE INFORMATION IS TRUE ACCURATE AND COMPLETE AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT

SIGNATURE OF CERTIFIED OPERATOR ~~PAYSON, THOMAS L.~~ CERTIFICATION NUMBER ~~W-4254~~

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER TELEPHONE NUMBER

IN THE HEAD OFFICE AT
~~ST. REGIS PAPER COMPANY~~
FOUNTAIN STREET PLANT
2 E. FOUNTAIN ST.
BATTLE CREEK MI 49016

MONTHLY OPERATING REPORT FOR MAY 1984 SJ

PR 4640 Re 9 83

THIS IS YOUR MONTHLY REPORT FORM FOR

~~ST. REGIS PAPER COMPANY~~
OUTFALL # 001
NONCONT.COOL.& FILTER BACKWASH TO KALA.

SEE REVERSE SIDE FOR RETURN MAIL

Please complete and submit two copies of this form at the end of each month. This report must reach our Lansing office by the 10th of the month
REQUIRED BY ACT 245 P.A. 1929 6A

J	FACILITY NUMBER	PERMIT NUMBER	OUTFALL NUMBER
	130069	MI0001341	130134

Date form was printed Y M D 83/1/4

PART 3 RETAIN THIS COPY

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ENDING DATE																																

M M D D Y Y

CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ATTACHMENTS AND THAT BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THAT THE INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT

SIGNATURE OF CERTIFIED OPERATOR RAYSON, THOMAS A. CERTIFICATION NUMBER W002504

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER TELEPHONE NUMBER

MICHIGAN PAPERBOARD CORP
~~ST. REGIS PAPER COMPANY~~
FOUNTAIN STREET PLANT
79 E. FOUNTAIN ST.
BATTLE CREEK MI 49016

MONTHLY OPERATING REPORT FOR JUNE 1984 SJ

PR 4640 Rev 9 83

THIS IS YOUR MONTHLY REPORT FORM FOR

SEE REVERSE SIDE FOR RETURN MAIL

Please complete and submit two copies of this form at the end of each month This report must reach our Lansing office by the 10th of the month
REQUIRED BY ACT 245 P A 1929 6A

MICHIGAN PAPERBOARD CORP
~~ST. REGIS PAPER COMPANY~~
OUTFALL # 001
NONCONT.COOL.& FILTER BACKWASH TO KAL.

J	FACILITY NUMBER	PERMIT NUMBER	OUTFALL NUMBER
	130069	MI0001341	130134

Date form was printed: Y Mo Day 83/11/14

PART 3 RETAIN THIS COPY

PARAM	50050			00530			85002			00400			50060			00015			00011		
NAME	FLOW CONDUIT			SOLIDS-SUSPENDED			SOLIDS-SUSPENDED			PH			CHLORINE (T-C)			BTU-MILLION			TEMPERAT		
UNITS	MGD			MG/L			LBS/DAY			S.U.			MG/L			BTU/HR					
LIMIT				AVERAGE <30	MAXIMUM 30		AVERAGE 534	MAXIMUM 500		MAXIMUM 9.0	MINIMUM 6.0		MAXIMUM 0.2			MAXIMUM 41					
DATE	DAILY AVG	HIGH	LOW	DAILY AVG	HIGH	LOW	DAILY AVG	HIGH	LOW	DAILY AVG	HIGH	LOW	DAILY AVG	HIGH	LOW	DAILY AVG	HIGH	LOW	DAILY AVG	HIGH	LOW
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31																					
MONTHLY SUMMARY	AVERAGE 11.26			AVERAGE 15			AVERAGE 1187.34			AVERAGE 7.5			AVERAGE 0.1			AVERAGE 3.178			AVERAGE 00		
	MAXIMUM 11.5			MAXIMUM 19			MAXIMUM 2317.21			MAXIMUM 7.7			MAXIMUM 0.1			MAXIMUM 4.169			MAXIMUM 02		
										MIN 7.2											
	NUMBER DAYS REPORTING 30			NUMBER DAYS REPORTING 30			NUMBER DAYS REPORTING 30			NUMBER DAYS REPORTING 30			NUMBER DAYS REPORTING 30			NUMBER DAYS REPORTING 30			NUMBER DAYS REPORTING 30		
	TOTAL SAMPLES TAKEN 4			TOTAL SAMPLES TAKEN 4			TOTAL SAMPLES TAKEN 4			TOTAL SAMPLES TAKEN 4			TOTAL SAMPLES TAKEN 4			TOTAL SAMPLES TAKEN 4			TOTAL SAMPLES TAKEN 4		
	DAYS EXCEEDING MAXIMUM			DAYS EXCEEDING MAXIMUM			DAYS EXCEEDING MAXIMUM			DAYS EXCEEDING MAXIMUM			DAYS EXCEEDING MAXIMUM			DAYS EXCEEDING MAXIMUM			DAYS EXCEEDING MAXIMUM		
	AVG MAX VIOL			AVG MAX VIOL			AVG MAX VOL			AVG MAX VOL			AVG MAX VOL			AVG MAX VOL			AVG MAX VOL		
BEGINNING DATE	060184			DUP PUNCH 75 86			DUP PUNCH 75 86			DUP PUNCH 175 86			DUP PUNCH 75 86			DUP PUNCH 75 86			DUP PUNCH 75 86		
ENDING DATE	063084 (M M D D Y Y)																				

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ATTACHMENTS AND THAT BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THAT THE INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT

SIGNATURE OF CERTIFIED OPERATOR ~~PAYSON, THOMAS E.~~ [illegible] CERTIFICATION NUMBER ~~MU7254~~ [illegible]

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER [illegible] TELEPHONE NUMBER [illegible]

~~ST. REGIS PAPER COMPANY~~ MICHIGAN PAPERBOARD CORP
FOUNTAIN STREET PLANT
79 W. FOUNTAIN ST.
BATTLE CREEK MI 49016

MONTHLY OPERATING REPORT FOR

JUNE 1984 SJ
~~ST. REGIS PAPER COMPANY~~ MICHIGAN PAPERBOARD CORP
OUTFALL : 001
NONCONT.COOL.& FILTER BACKWASH TO KAL. .

PR 4640 Rev 9 8?

THIS IS YOUR MONTHLY REPORT FORM FOR

SEE REVERSE SIDE FOR RETURN MAIL

Please complete and submit two copies of this form at the end of each month This report must reach our Lansing office by the 10th of the month
REQUIRED BY ACT 245 P A 1929 6A

PART 3 RETAIN THIS COPY

	FACILITY NUMBER	PERMIT NUMBER	OUTFALL NUMBER
J	130069	MI0031341	130134

Date form was printed: Y M Da 87/1./ 4

PARAM	91110																											
NAME	OUTFALL OBSERV.																											
UNITS	ASSESS.																											
LIMIT																												
DATE	1	DAILY AVG	HIGH	LOW	1	DAILY AVG	HIGH	LOW	1	DAILY AVG	HIGH	LOW	1	DAILY AVG	HIGH	LOW	1	DAILY AVG	HIGH	LOW	1	DAILY AVG	HIGH	LOW	1	DAILY AVG	HIGH	LOW
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MONTHLY SUMMARY

AVERAGE	0	AVERAGE		AVERAGE		AVERAGE		AVERAGE		AVERAGE		AVERAGE	
MAXIMUM	0	MAXIMUM		MAXIMUM		MAXIMUM		MAXIMUM		MAXIMUM		MAXIMUM	
NUMBER DAYS REPORTING	30	NUMBER DAYS REPORTING		NUMBER DAYS REPORTING		NUMBER DAYS REPORTING		NUMBER DAYS REPORTING		NUMBER DAYS REPORTING		NUMBER DAYS REPORTING	
TOTAL SAMPLES TAKEN	4	TOTAL SAMPLES TAKEN		TOTAL SAMPLES TAKEN		TOTAL SAMPLES TAKEN		TOTAL SAMPLES TAKEN		TOTAL SAMPLES TAKEN		TOTAL SAMPLES TAKEN	
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AVG MAX VIOL		AVG MAX VIOL		AVG MAX VIOL		AVG MAX VIOL		AVG MAX VIOL		AVG MAX VIOL		AVG MAX VIOL	
BEGINNING DATE	060184	DUP PUNCH 75 86		DUP PUNCH 75 86		DUP PUNCH 75 86		DUP PUNCH 75 86		DUP PUNCH 75 86		DUP PUNCH 75 86	
ENDING DATE	063084												

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I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ATTACHMENTS AND THAT BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THAT THE INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT

SIGNATURE OF CERTIFIED OPERATOR ~~PAYSON, THOMAS R.~~ [signature] CERTIFICATION NUMBER ~~R002504~~

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER TELEPHONE NUMBER

MICHIGAN PAPERBOARD CORP.
FOUNTAIN STREET PLANT
79 E. FOUNTAIN ST.
BATTLE CREEK MI 49016

MONTHLY OPERATING REPORT FOR JULY 1984 S J

PR 46 0 Re 9 83

THIS IS YOUR MONTHLY REPORT FORM FOR

MICHIGAN PAPERBOARD CORP.
OUTFALL # 001
VACUUM COOL. & FILTER BACKWASH FOR C.O.

SEE REVERSE SIDE FOR RETURN MAIL

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REQUIRED BY ACT 245 P A 1929 6A

J	FACILITY NUMBER	PERMIT NUMBER	OUTFALL NUMBER
	130069	MI0001341	130134

Date form was printed 84/ /17

PART 3 RETAIN THIS COPY

PARAM	50050				00530				85002				00400				50060				76015							
NAME	FLOW CONDUIT				SOLIDS-SUSPENDED				SOLIDS-SUSPENDED				PH				CHLORINE (T.R.)				STU-MILLIS				T[illegible]			
UNITS	MGD				MG/L				LBS/DAY				S.U.				MG/L				BTU/H				F			
LIMIT					AVERAGE 20		MAXIMUM 30		AVERAGE 534		MAXIMUM 1010		MAXIMUM 9.0		MINIMUM 6.0		MAXIMUM 0.				MAXIMUM 41							
DATE	1	DAILY AVG	HIGH	LOW	1	DAILY AVG	HIGH	LOW	1	DAILY AVG	HIGH	LOW	1	DAILY AVG	HIGH	LOW	1	DAILY AVG	HIGH	LOW	1	DAILY AVG	HIGH	LOW	1	DAILY AVG	HIGH	LOW
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	TOTAL SAMPLES TAKEN	4			TOTAL SAMPLES TAKEN	4			TOTAL SAMPLES TAKEN	4			TOTAL SAMPLES TAKEN	4			TOTAL SAMPLES TAKEN	4			TOTAL SAMPLES TAKEN	4			TOTAL SAMPLES TAKEN	4		
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I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ATTACHMENTS AND THAT BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THAT THE INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT

SIGNATURE OF CERTIFIED OPERATOR ~~PAYSUNO THOMAS L.~~ [illegible] CERTIFICATION NUMBER ~~[illegible]~~ W 444

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER _____ TELEPHONE NUMBER [illegible]

IGAN PAPERBOARD CORP.
NTAIN STREET PLANT
E. FOUNTAIN ST.
ATTLE CREEK MI 49016

MONTHLY OPERATING REPORT FOR JULY 1984 SJ

PR 4640 Rev 9 8

THIS IS YOUR MONTHLY REPORT FORM FOR

SEE REVERSE SIDE FOR RETURN MAIL

Please complete and submit two copies of this form at the end of each month This report must reach our Lansing office by the 10th of the month
REQUIRED BY ACT 245 P A 1929 6A

MICHIGAN PAPERBOA D CO. P.
OUTFALL : 001
NONCONT.COOL.& FILTE. BACKWASH TO KAL. .

J	FACILITY NUMBER	PERMIT NUMBER	OUTFALL NUMBER
	130069	MI0001341	130134

Date form was printed Yr Mo Day 84/ 7/17

PART 3 RETAIN THIS COPY

PARAM	91110																															
NAME UNITS	OUTFALL OBSERV. ASSESS.																															
LIMIT																																
DATE	1	DAILY AVG	HIGH	LOW	1	DAILY AVG	HIGH	LOW	1	DAILY AVG	HIGH	LOW	1	DAILY AVG	HIGH	LOW	1	DAILY AVG	HIGH	LOW	1	DAILY AVG	HIGH	LOW	1	DAILY AVG	HIGH	LOW	1	DAILY AVG	HIGH	LOW
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	NUMBER DAYS REPORTING			31	NUMBER DAYS REPORTING				NUMBER DAYS REPORTING				NUMBER DAYS REPORTING				NUMBER DAYS REPORTING				NUMBER DAYS REPORTING				NUMBER DAYS REPORTING				NUMBER DAYS REPORTING			
	TOTAL SAMPLES TAKEN			4	TOTAL SAMPLES TAKEN				TOTAL SAMPLES TAKEN				TOTAL SAMPLES TAKEN				TOTAL SAMPLES TAKEN				TOTAL SAMPLES TAKEN				TOTAL SAMPLES TAKEN				TOTAL SAMPLES TAKEN			
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	AVG MAX VIOL				AVG MAX VIOL				AVG MAX VIOL				AVG MAX VIOL				AVG MAX VIOL				AVG MAX VIOL				AVG MAX VIOL				AVG MAX VIOL			
BEGINNING DATE	07 01 84				DUP PUNCH (75 86)				DUP PUNCH (75 86)				DUP PUNCH (75 86)				DUP PUNCH 75 86				DUP PUNCH (75 86)				DUP PUNCH 75 86							
ENDING DATE	07 31 84																															
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I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ATTACHMENTS AND THAT BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THAT THE INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT

SIGNATURE OF CERTIFIED OPERATOR ~~PAYSON THOMAS A.~~ [illegible] CERTIFICATION NUMBER ~~W-2254~~ W-2444

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER _____ TELEPHONE NUMBER 616 16 [illegible]

MICHIGAN PAPERBOARD CORP.
FOUNTAIN STREET PLANT
79 E. FOUNTAIN ST.
BATTLE CREEK MI 49 16

MONTHLY OPERATING REPORT FOR AUGUST 1984 SJ

PR 4640 Rev 9 83

THIS IS YOUR MONTHLY REPORT FORM FOR

SEE REVERSE SIDE FOR RETURN MAIL

Please complete and submit two copies of this form at the end of each month This report must reach our Lansing office by the 10th of the month
REQUIRED BY ACT 245 P A 1929 6A

MICHIGAN PAPERBOARD CORP.
OUTFALL : 001
NONCONT.CO L.S FILTER BACKWASH TO KIL. .

J	FACILITY NUMBER	PERMIT NUMBER	OUTFALL NUMBER
	130069	MI0001341	130134

Date form was printed Y 84 Mo 11 Dy 17

PART 3 RETAIN THIS COPY

PARAM	50050				00530				85032				00400				50060				00015				[illegible]			
NAME	FLOW CONDUIT				SOLIDS-SUSPENDED				SOLIDS-SUSPENDED				PH				CHLORINE (TRC)				BTU-BILLING				[illegible]			
UNITS	MGD				MG/L				LBS/DAY				SU				MG/L				BTU/HR				F			
LIMIT					AVERAGE 20		MAXIMUM 30		AVERAGE 534		MAXIMUM [illegible]		MAXIMUM 9.0		MINIMUM 6.0		MAXIMUM [illegible]				MAXIMUM 41							
DATE	1	DAILY AVG	HIGH	LOW	1	DAILY AVG	HIGH	LOW	1	DAILY AVG	HIGH	LOW	1	DAILY AVG	HIGH	LOW	1	DAILY AVG	HIGH	LOW	1	DAILY AVG	HIGH	LOW	1	DAILY AVG	HIGH	LOW
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2		1.5																										
3		1.5	GRAB			16				1117				7.7				0.1				417				39		
4		0.3																										
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9		1.4	GRAB			10				1166				7.6				0.1				438				37		
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MONTHLY SUMMARY	AVERAGE	1.3			AVERAGE	15			AVERAGE	1735			AVERAGE	7.7			AVERAGE	0.1			AVERAGE	392			AVERAGE	37		
	MAXIMUM	1.5			MAXIMUM	19			MAXIMUM	2216			MAXIMUM	7.9			MAXIMUM	0.1			MAXIMUM	430			MAXIMUM	39		
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	NUMBER DAYS REPORTING	31			NUMBER DAYS REPORTING	31			NUMBER DAYS REPORTING	31			NUMBER DAYS REPORTING	31			NUMBER DAYS REPORTING	31			NUMBER DAYS REPORTING	31			NUMBER DAYS REPORTING	31		
	TOTAL SAMPLES TAKEN	5			TOTAL SAMPLES TAKEN	5			TOTAL SAMPLES TAKEN	5			TOTAL SAMPLES TAKEN	5			TOTAL SAMPLES TAKEN	5			TOTAL SAMPLES TAKEN	5			TOTAL SAMPLES TAKEN	5		
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BEGINNING DATE 08 01 84
ENDING DATE 08 31 84
M M D D Y Y

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ATTACHMENTS AND THAT BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THAT THE INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT

SIGNATURE OF CERTIFIED OPERATOR ~~PATSOTT THOMAS A.~~ [illegible] CERTIFICATION NUMBER ~~H002504~~

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER TELEPHONE NUMBER

N PAPERBOARD CORP.
IN STREET PLANT
FOUNTAIN ST.
TLE CREEK MI 49016

MONTHLY OPERATING REPORT FOR AUGUST 1984 SJ

PR 4640 Rev 9 83

THIS IS YOUR MONTHLY REPORT FORM FOR

MICHIGAN PAPERBOARD CORP.
OUTFALL : 001
NONCONT.COOL.& FILTER BACKWASH TO KAL..

SEE REVERSE SIDE FOR RETURN MAIL

Please complete and submit two copies of this form at the end of each month This report must reach our Lansing office by the 10th of the month
REQUIRED BY ACT 245 PA 1929 6A

FACILITY NUMBER	PERMIT NUMBER	OUTFALL NUMBER
130069	MI0001341	130134

Date form was printed: Y M Day 84/7/17

PART 3 RETAIN THIS COPY

PARAM: 91110
NAME UNITS: OUTFALL OBSERV. ASSESS.
LIMIT:

DATE	1	DAILY AVG	HIGH	LOW
1				
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29		0		
30				
31				

MONTHLY SUMMARY

AVERAGE	0
MAXIMUM	0
NUMBER DAYS REPORTING	31
TOTAL SAMPLES TAKEN	5
DAYS EXCEEDING MAXIMUM	
AVG MAX VIOL	

BEGINNING DATE 08 01 84
ENDING DATE 08 31 84
M M D D Y Y

DUP PUNCH 75 86

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ATTACHMENTS AND THAT BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THAT THE INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT

SIGNATURE OF CERTIFIED OPERATOR PAYSON, THOMAS A. [signature] CERTIFICATION NUMBER WC625.4 W 2444

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER TELEPHONE NUMBER

MICHIGAN PAPERBOARD CORP.
FOUNTAIN STREET PLANT
79 E. FOUNTAIN ST.
BATTLE CREEK MI 49016

MONTHLY OPERATING REPORT FOR SEPTEMBER 1984 SJ

PR 4640 Rev 9 83

THIS IS YOUR MONTHLY REPORT FORM FOR

SEE REVERSE SIDE FOR RETURN MAIL

Please complete and submit two copies of this form at the end of each month. This report must reach our Lansing office by the 10th of the month
REQUIRED BY ACT 245 P.A. 1929 6A

MICHIGAN PAPERBOARD CORP.
OUTFALL : 1
NONCONT.COOL.& FILTER BACKWASH TO RIVER

J	FACILITY NUMBER	PERMIT NUMBER	OUTFALL NUMBER
	130069	MI0001341	130134

Date form was printed M D 84/ 11/ 7

PART 3 RETAIN THIS COPY

PARAM	50050				00530				85002				00410				50060				00015				00011			
NAME	FLOW CONDUIT				SOLIDS-SUSP				SOLIDS-SUSP				[illegible]				CHLORINE (TRC)				TEMPERATURE				TEMP-WAT			
UNITS	MGD				MG/L				LBS/DAY				TU				MG/L				DEG F							
LIMIT					AVERAGE 25		MAXIMUM 30		AVERAGE 534		MAXIMUM 2[illegible]		MAXIMUM 9.1		MINIMUM 2.		MAXIMUM .2				MAXIMUM 41							
DATE	1	DAILY AVG	HIGH	LOW	1	DAILY AVG	HIGH	LOW	1	DAILY AVG	HIGH	LOW	1	DAILY AVG	HIGH	LOW	1	DAILY AVG	HIGH	LOW	1	DAILY AVG	HIGH	LOW	1	DAILY AVG	HIGH	LOW
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	MAXIMUM	1.5			MAXIMUM	17			MAXIMUM	40.67			MAXIMUM	7.7			MAXIMUM	0.1			MAXIMUM	6.4			MAXIMUM	17		
													MIN	7.5														
	NUMBER DAYS REPORTING	30			NUMBER DAYS REPORTING	30			NUMBER DAYS REPORTING	30			NUMBER DAYS REPORTING	30			NUMBER DAYS REPORTING	30			NUMBER DAYS REPORTING	30			NUMBER DAYS REPORTING	30		
	TOTAL SAMPLES TAKEN	4			TOTAL SAMPLES TAKEN	4			TOTAL SAMPLES TAKEN	4			TOTAL SAMPLES TAKEN	4			TOTAL SAMPLES TAKEN	4			TOTAL SAMPLES TAKEN	4			TOTAL SAMPLES TAKEN	4		
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BEGINNING DATE	09 01 84				DUP PUNCH 5 86				DUP PUNCH 5 86				DUP PUNCH 5 86				DUP PUNCH 5 86				DUP PUNCH 75 86				DUP PUNCH 5 86			
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I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ATTACHMENTS AND THAT BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THAT THE INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT

SIGNATURE OF CERTIFIED OPERATOR PAYSON, THOMAS A. CERTIFICATION NUMBER W002504

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER TELEPHONE NUMBER

PAPERBOARD CORP.
STREET PLANT
FOUNTAIN ST.
CREEK MI 49016

MONTHLY OPERATING REPORT FOR SEPTEMBER 1984 SJ

PR 4640 Re 9 83

THIS IS YOUR MONTHLY REPORT FORM FOR

MICHIGAN PAPERBOARD CORP.
OUTFALL # 001
NONCONTACT COOLING FILTER BACKWASH TO KALAMAZOO

SEE REVERSE SIDE FOR RETURN MAIL

Please complete and submit two copies of this form at the end of each month This report must reach our Lansing office by the 10th of the month
REQUIRED BY ACT 245 P A 1929 6A

FACILITY NUMBER	PERMIT NUMBER	OUTFALL NUMBER
130069	MI0001341	130134

PART 3 RETAIN THIS COPY

Date form was printed Y Mo D 84 / 11 / 17

PARAM	91110																															
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	NUMBER DAYS REPORTING			30	NUMBER DAYS REPORTING				NUMBER DAYS REPORTING				NUMBER DAYS REPORTING				NUMBER DAYS REPORTING				NUMBER DAYS REPORTING				NUMBER DAYS REPORTING				NUMBER DAYS REPORTING			
	TOTAL SAMPLES TAKEN			4	TOTAL SAMPLES TAKEN				TOTAL SAMPLES TAKEN				TOTAL SAMPLES TAKEN				TOTAL SAMPLES TAKEN				TOTAL SAMPLES TAKEN				TOTAL SAMPLES TAKEN				TOTAL SAMPLES TAKEN			
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	AVG MAX VOL				AVG MAX VOL				AVG MAX VOL				AVG MAX VOL				AVG MAX VOL				AVG MAX VOL				AVG MAX VOL				AVG MAX VOL			
BEGINNING DATE				09 01 84	DUP PUNCH 75 86				DUP PUNCH 75 86				DUP PUNCH 5 86				DUP PUNCH 5 86				DUP PUNCH 75 86				DUP PUNCH 86							
ENDING DATE				09 30 84																												
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I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ATTACHMENTS AND THAT BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION BELIEVE THAT THE INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT

SIGNATURE OF CERTIFIED OPERATOR ~~PAYSON, THOMAS A.~~ CERTIFICATION NUMBER ~~[illegible]~~ M 217

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER TELEPHONE NUMBER

MICHIGAN PAPERBOARD CORP.
FOUNTAIN STREET PLANT
7[illegible] E. FOUNTAIN ST.
BATTLE CREEK MI 49015

MONTHLY OPERATING REPORT FOR OCTOBER 1984

PR 4010 Rev 9 83

THIS IS YOUR MONTHLY REPORT FORM FOR

SEE REVERSE SIDE FOR RETURN MAIL

Please complete and submit two copies of this form at the end of each month. This report must reach our Lansing office by the 10th of the month.
REQUIRED BY ACT 245 P.A. 1929 6A

MICHIGAN PAPERBOARD CORP.
OUTFALL - 001
NONCONT.COOL.& FILTER BACKWASH TO [illegible]

J	FACILITY NUMBER	PERMIT NUMBER	OUTFALL NUMBER
	130069	MI0001341	130134

Date form was printed: Y M Da 84/11/17

PART 3 RETAIN THIS COPY

PARAM	50050	00530				85012				00400				50060				00015				[illegible]			
NAME	FLOW CONDUIT	SOLIDS-SUSPENDED				SOLIDS-SUSPENDED				PH				CHLORINE (T.R.C.)				TEMPERATURE				[illegible]			
UNITS	MGD	MG/L				LBS/DAY				S.U.				MG/L				DEG F				[illegible]			
LIMIT		AVERAGE 20		MAXIMUM 30		AVERAGE 534		MAXIMUM 802		MAXIMUM 9.0		MINIMUM 6.0		MAXIMUM 1.0				MAXIMUM 41							
DATE	1 DAILY AVG	HIGH	LOW	1 DAILY AVG	HIGH	LOW	1 DAILY AVG	HIGH	LOW	1 DAILY AVG	HIGH	LOW	1 DAILY AVG	HIGH	LOW	1 DAILY AVG	HIGH	LOW	1 DAILY AVG	HIGH	LOW	1 DAILY AVG	HIGH	LOW
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4	1.5	GRAB		10			1082			7.7			0.1			77			76						
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MONTHLY SUMMARY	AVERAGE	1.3		AVERAGE	14.5		AVERAGE	176.7		AVERAGE	7.5		AVERAGE	0.1		AVERAGE	69.6		AVERAGE	67		AVERAGE			
	MAXIMUM	1.5		MAXIMUM	22		MAXIMUM	274.8		MAXIMUM	7.7		MAXIMUM	0.1		MAXIMUM	76		MAXIMUM	76		MAXIMUM			
										MIN	7.1														
	NUMBER DAYS REPORTING	31		NUMBER DAYS REPORTING	31		NUMBER DAYS REPORTING	31		NUMBER DAYS REPORTING	31		NUMBER DAYS REPORTING	31		NUMBER DAYS REPORTING	31		NUMBER DAYS REPORTING	31		NUMBER DAYS REPORTING	31		
	TOTAL SAMPLES TAKEN	4		TOTAL SAMPLES TAKEN	4		TOTAL SAMPLES TAKEN	4		TOTAL SAMPLES TAKEN	4		TOTAL SAMPLES TAKEN	4		TOTAL SAMPLES TAKEN	4		TOTAL SAMPLES TAKEN	4		TOTAL SAMPLES TAKEN	4		
	DAYS EXCEEDING MAXIMUM			DAYS EXCEEDING MAXIMUM			DAYS EXCEEDING MAXIMUM			DAYS EXCEEDING MAXIMUM			DAYS EXCEEDING MAXIMUM			DAYS EXCEEDING MAXIMUM			DAYS EXCEEDING MAXIMUM			DAYS EXCEEDING MAXIMUM			
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BEGINNING DATE	10 01 84			DUP PUNCH 75 86			DUP PUNCH 75 86			DUP PUNCH 5 86			DUP PUNCH 5 86			DUP PUNCH 75 86			DUP PUNCH 5 86					
ENDING DATE	10 31 84																								
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I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ATTACHMENTS AND THAT BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THAT THE INFORMATION IS TRUE ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT.

SIGNATURE OF CERTIFIED OPERATOR PATSUNG THOMAS A. [signature] CERTIFICATION NUMBER WUO2504 IV 4444

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER _____ TELEPHONE NUMBER [illegible]

HIGAN PAPERBOARD CORP.
OUNTAIN STREET PLANT
0 E. FOUNTAIN ST.
BATTLE CREEK MI 49016

MONTHLY OPERATING REPORT FOR OCTOBER 1984 SJ

PR 4640 Rev 9 83

THIS IS YOUR MONTHLY REPORT FORM FOR

MICHIGAN PAPERBOARD CORP.
OUTFALL # 001
NONCONT.COOL.& FILTER BACKWASH TO KAL. .

SEE REVERSE SIDE FOR RETURN MAIL

Please complete and submit two copies of this form at the end of each month This report must reach our Lansing office by the 10th of the month
REQUIRED BY ACT 245 P A 1929 6A

J	FACILITY NUMBER	PERMIT NUMBER	OUTFALL NUMBER
	130069	MI0001341	130134

Date form was printed (Y Mo Da): 84/ 7/17

PART 3 RETAIN THIS COPY

PARAM	91110																															
NAME	OUTFALL OBSERV.																															
UNITS	ASSESS.																															
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DATE	1	DAILY AVG	HIGH	LOW	1	DAILY AVG	HIGH	LOW	1	DAILY AVG	HIGH	LOW	1	DAILY AVG	HIGH	LOW	1	DAILY AVG	HIGH	LOW	1	DAILY AVG	HIGH	LOW	1	DAILY AVG	HIGH	LOW				
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	TOTAL SAMPLES TAKEN			4	TOTAL SAMPLES TAKEN				TOTAL SAMPLES TAKEN				TOTAL SAMPLES TAKEN				TOTAL SAMPLES TAKEN				TOTAL SAMPLES TAKEN				TOTAL SAMPLES TAKEN							
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BEGINNING DATE	10 01 84				DUP PUNCH 75 86				DUP PUNCH 75 86				DUP PUNCH 75 86				DUP PUNCH 75 86				DUP PUNCH 75 86				DUP PUNCH 75 86							
ENDING DATE	10 31 84																															
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I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ATTACHMENTS AND THAT BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THAT THE INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT

SIGNATURE OF CERTIFIED OPERATOR ~~PAYSON, THOMAS A.~~ [signature] CERTIFICATION NUMBER ~~W002504~~ W 1944

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER _____ TELEPHONE NUMBER 965-2014

MICHIGAN PAPERBOARD CORP.
FOUNTAIN STREET PLANT
79 E. FOUNTAIN ST.
BATTLE CREEK MI 49016

MONTHLY OPERATING REPORT FOR 04 18 1984 50

PR 4640 Rev 9 83

THIS IS YOUR MONTHLY REPORT FORM FOR

SEE REVERSE SIDE FOR RETURN MAIL

Please complete and submit two copies of this form at the end of each month. This report must reach our Lansing office by the 10th of the month
REQUIRED BY ACT 245 P A 1929 6A

MICHIGAN PAPERBOARD CORP.
OUTFALL : 001
ASNCO T.CIRL.& FILTER BACKWASH T K L.

J	FACILITY NUMBER	PERMIT NUMBER	OUTFALL NUMBER
	130069	MI0001341	130134

Date form was printed M D 84/ 1/17

PART 3 RETAIN THIS COPY

PARAM	50050				00530				85002				00400				50060				00015				00011			
NAME	FLOW CONDUIT				SOLIDS-SUSPENDED				SOLIDS-SUSPENDED				PH				CHLORINE (T C)				STORM ILLIN				TEMPERAT			
UNITS	MGD				MG/L				LBS/DAY				TU				MG/L				STU/H				F			
LIMIT					AVERAGE 30		MAXIMUM 30		AVERAGE 334		MAXIMUM 80		MAXIMUM 9.		MINIMUM 6.		MAXIMUM .				MAXIMUM 41							
DATE	1	DAILY AVG	HIGH	LOW	1	DAILY AVG	HIGH	LOW	1	DAILY AVG	HIGH	LOW		DAILY AVG	HIGH	LOW		DAILY AVG	HIGH	LOW	1	DAILY AVG	HIGH	LOW	1	DAILY AVG	HIGH	LOW
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	MAXIMUM		1.5		MAXIMUM		21.0		MAXIMUM		444	8	MAXIMUM		7.8		MAXIMUM		1		MAXIMUM		6.26		MAXIMUM			
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CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ATTACHMENTS AND THAT BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THAT THE INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT

SIGNATURE OF CERTIFIED OPERATOR PAYSON, THOMAS A. CERTIFICATION NUMBER W0025 14 1 444

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER PHONE

N PAPERBOARD CORP.
IN STREET PLANT
FOUNTAIN ST.
LE CREEK MI 49016

MONTHLY OPERATING REPORT FOR NOVEMBER 1984 SJ

PR 4640 Rev 9 83

THIS IS YOUR MONTHLY REPORT FORM FOR

MICHIGAN PAPERBOARD CORP.
OUTFALL : 01
NONC NT.COOL.R FILTF BACKWASH T. KAL.R.

SEE REVERSE SIDE FOR RETURN MAIL

Please complete and submit two copies of this form at the end of each month This report must reach our Lansing office by the 10th of the month
REQUIRED BY ACT 245 PA 1929 6A

FACILITY NUMBER	PERMIT NUMBER	OUTFALL NUMBER
130069	MI0031341	133134

PART 3 RETAIN THIS COPY

Date form was printed: Y Mo Dy 84/ 7/17

SECTION I

PARAM	91110						
NAME	OUTFALL OBSERV.						
UNITS	ASSESS.						
LIMIT							

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MONTHLY SUMMARY

AVERAGE							
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NUMBER DAYS REPORTING	30						
TOTAL SAMPLES TAKEN	4						
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I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ATTACHMENTS AND THAT BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THAT THE INFORMATION IS TRUE ACCURATE AND COMPLETE AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT

SIGNATURE OF CERTIFIED OPERATOR PAYSON, THOMAS A. [illegible signature] CERTIFICATION NUMBER H0025.4

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER ______ TELEPHONE NUMBER ______

MICHIGAN PAPE BOARD CORP.
FOUNTAIN STREET PLANT
7 L. FOUNTAIN ST.
BATTLE CREEK MI 49.16

MONTHLY OPERATING REPORT FOR DECEM 1984 SJ

PR 4640 Rev 9 83

THIS IS YOUR MONTHLY REPORT FORM FOR

SEE REVERSE SIDE FOR RETURN MAIL

Please complete and subm t two cop es of th s form at the end of each month Th s report must reach our Lans ng office by the 10th of the month
REQUIRED BY ACT 245 P A 1929 6A

MICHIGAN PAPERBOARD CORP.
OUTFALL : 01
MINCOAT.COL.& FILTE PACKNOST T KAL. .

J	FACILITY NUMBER	PERMIT NUMBER	OUTFALL NUMBER
	130069	MI0001341	130134

Date form was pr nted M Da 84/ 1/17

PART 3 RETAIN THIS COPY

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S GNATURE OF CERT FIED OPERATOR ~~PAYSONP THOMAS A.~~ [signature] CERT F CAT ON NUMBER ~~W00254~~ IV 2444

S GNATURE OF PR NC PAL EXECUT VE OFF CER _____ TELEPHONE NUMBER _____

MICHIGAN PAP[illegible]ARD CORP.
FOUNTAIN STREET PLANT
79 E. FOUNTAIN ST.
BATTLE CREEK MI 49[illegible]16

MONTHLY OPERATING REPORT FOR

DECEMBER 1984 SJ

PR 4640 Re 9 83

THIS IS YOUR MONTHLY REPORT FORM FOR

MICHIGAN PAPERBOARD CORP.
OUTFALL : [illegible]1
NONCONT.COLL.& FILTER BACKWASH TO KAL[illegible]

SEE REVERSE SIDE FOR RETURN MAIL

Please complete and submit two copies of this form at the end of each month This report must reach our Lansing office by the 10th of the month

REQUIRED BY ACT 245 PA 1929 6A

	FACILITY NUMBER	PERMIT NUMBER	OUTFALL NUMBER
J	130069	MI0001341	130134

Date form was printed (Yr Mo Day): 84/11/17

PART 3 RETAIN THIS COPY

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NAME	OUTFALL OBSERV.						
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MONTHLY SUMMARY

AVERAGE	C
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NUMBER DAYS REPORTING	21
TOTAL SAMPLES TAKEN	4
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AVG MAX VOL	
BEGINNING DATE (M M D D Y Y)	12 01 84
ENDING DATE (M M D D Y Y)	12 31 84

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I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ATTACHMENTS AND THAT BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THAT THE INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT

SIGNATURE OF CERTIFIED OPERATOR ~~PAYSON, THOMAS A.~~ [signature] CERTIFICATION NUMBER W-C25.4

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER ______ TELEPHONE NUMBER ______

24

COMP BOOK

KAR LABORATORIES 12/91-09/96

METALS + PCB RESULTS

80 SHEETS • 10 x 7⅞ • WIDE & MARGIN • 43-460

12/91 → 09/96

NATIONAL BLANK BOOK COMPANY, INC
Holyoke, Massachusetts 01040 • Made in USA

December 1991

project # 920189
Sample # 920189-01

Date	machine	customer order #	Customer	Time	Sample number	Result
12/01/91	1	511786	IVY HILL F	5:24 pm	1	
12/15/91	1	169348	FIELD CONTAINER C	1:23 AM	2	METALS
12/30/91	1	3448	LAPORTE F	12:59 pm	3	
12/02/91	2	0191001347	FORT HOWARD C	10:56 AM	4	* see below
12/15/91	2	3413	LA PORTE B	8:44 pm	5	
12/29/91	2	146553205	EASTMAN KODAK F	5:55 AM	6	
12/02/91	1	28517	RALSTON PURINA F	3:27 AM	7	
12/13/91	1	019101347	FORT HOWARD C	10:22 AM	8	
12/29/91	1	11527	BERESFORD F	4:22 pm	9	PCB - TOTAL
12/01/91	2	18011	QUEENS F	12 05 pm	10	< 0.5 mg/Kg
12/13/91	2	26547-1	BOELTER F	2 27 pm	11	
12/30/91	2	3156	TORONTO CARTON F	11:00 pm	12	

metals results

*	Arsenic, total	1 mg/Kg
	Barium, total	15 mg/Kg
	Cadmium, total	< 0.5 mg/Kg
	Chromium, total	2 mg/Kg
	Lead, total	< 1 mg/Kg
	Mercury, total	< 0.5 mg/Kg
	Selenium, total	< 0.5 mg/Kg
	Silver	0.5 mg/Kg

samples 1, 2, 3, 4, 5 .

PCB, total < 0.5 mg/Kg

January 1992

project # 920280
sample # 920280-01

DATE	MACHINE	CUSTOMER ORDER #	Customer	Time	Sample #	RESULT
01/02/92	# 2	2-12116 77768	ST. CLAIR PAKWELL F	11:28 pm	13	
01/14/92	# 2	2-01061 35204	RALSTON PURINA B	8:37 pm	14	METALS
01/30/92	# 2	2-01057 35200	RALSTON PURINA C	3:34 pm	15	* see below
01/02/92	# 1	1-11079 14655316	KODAK B	12:28 pm	16	
01/14/92	# 1	1-08347 01911347	FORT HOWARD F	6:00 pm	17	
01/28/92	# 1	1-01134 3572	LAPORTE C	7:14 AM	18	
01/25/92	# 1	1-08348 19100134	FORT HOWARD C	5:41 AM	19	
01/17/92	# 1	1-12091 170295	FIELD CONTAINER B	4:17 AM	20	PCB
01/04/92	# 1	1-91600 28514	RALSTON PURINA B	5:10 AM	21	< 0.5 mg/kg
01/02/92	# 2	2-12081 170287	FIELD CONTAINER B	1:45 AM	22	
01/13/92	# 2	2-01061 35204	RALSTON PURINA B	8:57 pm	23	
01/31/92	# 2	2-01127 10792	BECK CARTON C	11:15 pm	24	

metal results — Samples 13, 14, 15, 16, 17, 18

* Arsenic, total	< 1 mg/kg
Barium, total	17 mg/kg
Cadmium, total	< 0.5 mg/kg
Chromium, total	2 mg/kg
Lead, total	2 mg/kg
Mercury, total	< 0.5 mg/kg
Selenium, total	< 0.5 mg/kg
Silver, total	< 0.5 mg/kg

PCB, total < 0.5 mg/kg

FEBRUARY 1992

project # 920494

Date	machine	Customer order #	Customer	time	Sample number	
02/01/92	1	1-01135 3573	LAPORTE D	9:32 am	25	Results
02/11/92	1	1-54034 42879	AGI INCORPORATED C	9:28 pm	26	
02/27/92	1	1-54105 513413-2	IVY HILL F	7:01 am	27	* see below
02/04/92	2	2-01171 3600	LAPORTE F	6:55 am	28	
02/11/92	2	2-54021 513091	IVY HILL B	8:54 am	29	
02/26/92	2	2-54127 1224-1	BECK CARTON F	3:25 pm	30	
02/02/92	1	1-01082 170727	FIELD CONTAINER C	11:10 pm	31	PCB
02/14/92	1	1-01061 35204	RALSTON PURINA F	6:54 AM	32	
02/29/92	1	1-54136 3695	LAPORTE C	12:37 pm	33	
02/02/92	2	2-01057 35200	RALSTON PURINA C	5:56 pm	34	
02/15/92	2	2-08346 19100134	FORT HOWARD B	8:03 pm	35	
02/29/92	2	2-01058 35201	RALSTON PURINA F	4:27 pm	36	

metal results

*	Arsenic, total	< 1 mg/Kg
	Barium, total	13 mg/Kg
	Cadmium, total	< 0.5 mg/Kg
	Chromium, total	1 mg/Kg
	Lead total	1 mg/Kg
	Mercury, total	< 0.5 mg/Kg
	Selenium, total	< 0.5 mg/Kg
	Silver, total	< 0.5 mg/Kg

Samples 25, 26, 27, 28, 29 & 30

PCB, total < 0.5 mg/Kg

MARCH 1992

PROJECT # 920722
sample # 920722-01

Date	machine	Customer order #	Customer	Time	Sample number
03/06/92	1	1-54166 191	Great Plains B	8:38 am	37
03/18/92	1	1-54258 568	AGI F	5:58 am	38
03/29/92	1	1-54315 1186	Consolidated F	6:50 am	39
03/05/92	2	2-54176 10900	NORDIC PKG C	8:19 pm	40
03/19/92	2	2-08348 191001347	FORT HOWARD B	7:40 pm	41
03/29/92	2	2-01057 35200	RALSTON PURINA C	2:01 pm	42
03/05/92	1	1-54175 267	AGI C	7:08 pm	43
03/15/92	1	1-54155 G146553250	KODAK F	7:18 AM	44
03/29/92	1	1-54311 915	AGI C	11:10 pm	45
03/06/92	2	2-54151 31611560	CRANE CARTON B	3:24 AM	46
03/16/92	2	2-54207 172100	FIELD CONTAINER B	6.44 pm	47
03/27/92	2	2-54250 26808-1	BOELTER F	9:36 AM	48

metal results

ARSENIC, TOTAL	1 mg/kg
BARIUM TOTAL	13 mg/kg
CADMIUM, TOTAL	< 0.5 mg/kg
CHROMIUM, TOTAL	2 mg/kg
LEAD, TOTAL	1 mg/kg
MERCURY, TOTAL	< 0.5 mg/kg
SELENIUM, TOTAL	< 0.5 mg/kg
SILVER, TOTAL	< 0.5 mg/kg
PCB, TOTAL	< 0.5 mg/kg

APRIL 1992

project # 921158

Date	machine	Customer order #	Customer	Time	Sample number
4/6/92	1	1-54155 C 14655325	KODAK	6:01 pm	49
4/16/92	1	1-54429 F 514147	IVY HILL	5:00 AM	50
4/30/92	1	1-54462 172870	FIELD CONTAINER	2.15 pm	51
4/9/92	2	2-54286 15421	SPB	4:37 AM	52
4/18/92	2	2-54353 3879	SHOREWOOD PACKAGING	3:45 pm	53
4/27/92	2	2-54364 4412	JOY CONE	7:29 AM	54

See below *

4/4/92	1	1-54185 3716	LAPORTE	7:10 AM	55
4/20/92	1	1-54419 3853	LAPORTE	4.35 AM	56
4/29/92	1	1-54412 3851	LAPORTE	12.19 pm	57
4/4/92	2	2-54321 16360	L. R. PKG.	1.30 pm	58
4/19/92	2	2-54379 78281-4	St Clair Packwell	1:48 pm	59
4/30/92	2	2-54203 3727	LAPORTE	1.55 AM	60

metal Results

samples #49-54

* Arsenic,	total	< 1 mg/Kg
Barium,	total	11 mg/Kg
Cadmium,	total	< 0.5 mg/Kg
Chromium,	total	1 mg/Kg
Lead,	total	< 1 mg/Kg
Mercury,	total	< 0.5 mg/Kg
Selenium,	total	< 0.5 mg/Kg
Silver,	total	< 0.5 mg/Kg
PCB,	total	< 0.5 mg/Kg

May 1992 project # 921346

Date	machine	Customer order #	Customer	Time	sample number
5/1/92	2	2-54204 3728	LAPORTE	12:02 pm	61
5/18/92	2	2-54447 35909	RALSTON PURINA	3:18 pm	62
5/27/92	2	2-54606 36370	" "	10:22 pm	63
5/2/92	1	1-54203 3727	LAPORTE	10:00 pm	64
5/11/92	1	1-54552 514359	IVY HILL	12:00 am	65
	1	1-54466 2985	SOUTHERN STANDARD	2:35 pm	66

see below *

5/3/92	2	2-08349 19101347	FORT HOWARD	5:40 am	67
5/16/92	2	2-54511 172883	FIELD CONTAINER	4:08 pm	68
5/29/92	1	1-54460 15427-1	SHEBOYGAN	1:05 pm	69
5/1/92	1	1-54411 3850	LAPORTE	12:28 AM	70
5/10/92	1	1-54440 172852	FIELD CONTAINER	10:48 AM	71
5/28/92	1	1-0834 191001341	FORT HOWARD	3:34 pm	72

metal results - samples 61, 62, 63, 64, 65, 66

*	Arsenic, total	1 mg/kg
	Barium, total	12 mg/kg
	Cadmium, total	< 0.5 mg/kg
	Chromium, total	2 mg/kg
	Lead, total	< 1 mg/kg
	Mercury, total	< 0.5 mg/kg
	Selenium, total	< 0.5 mg/kg
	Silver, total	< 0.5 mg/kg
	PCB, total	< 0.5 mg/kg

June 1992

project # 921507

Date	machine	Customer order #	Customer	time	sample number
6/5/92	#1	1-54531 8005	STD. FOLDING	4:08 pm	73
6/19/92	#1	1-54726 514901	IVY HILL	11:55 AM	74
6/30/92	#1	1-54613 514650	IVY HILL	4:55 AM	75
6/6/92	#2	2-54643 4874	ARKAY	8:35 pm	76
6/19/92	#2	2-54591 58024	AMERICAN Pkg	7.05 pm	77
6/28/92	#2	2-54729 4461	RALSTON PURINA	2:23 pm	78
6/2/92	#1	1-54576 514642	IVY HILL	9:14 pm	79
6/16/92	#1	1-01057 35200	RALSTON PURINA	7:15 AM	80
6/28/92	#1	1-54784 4109	LAPORTE	8:50 pm	81
6/1/92	#2	2-54555 78430	ST. CLAIR PAKWELL	12:52 pm	82
6/14/92	#2	2-01057 35200	RALSTON PURINA	11:00 AM	83
6/29/92	#2	2-01061 35204	RALSTON PURINA	3:44 pm	84

metal results

samples #79 thru 85

* Arsenic, total	< 1 mg/Kg
Barium, total	15 mg/Kg
Cadmium, total	< 0.5 mg/Kg
Chromium, total	1 mg/Kg
Lead, total	1 mg/Kg
Mercury, total	< 0.5 mg/Kg
Selenium, total	< 0.5 mg/Kg
Silver, total	< 0.5 mg/Kg
PCB, total	< 0.5 mg/Kg

July 1992

PROJECT # 921778

Date	machine	Customer order #	Customer	time	Sample #
7/1/92	#1	1-54647 514649	IVY HILL	7.50 pm	85
7/15/92	#1	1-54823 4158	LAPORTE	7:40 Am	86
7/31/92	#1	1-54739 173980	FIELD CONTAINER	10:56 pm	87
7/2/92	#2	2-54668 7695	EASTFIELD	1:10 Am	88
7/17/92	#2	2-54706 23425	J. G. CLARK	8:16 Am	89
7/31/92	#2	2-54899 3479	SOUTHERN STANDARD	3:01 pm	90
7/3/92	#1	1-54755 4069	LAPORTE	4:55 pm	91
7/15/92	#1	1-54823 4158	LAPORTE	7:40 Am	92
7/29/92	#1	1-54906 21395	MARSEILLES	12:43 pm	93
7/[illegible]/92	#2	2-54685 3297	SOUTHERN STANDARD	7:34 pm	94
7/19/92	#2	2-01060 35203	RALSTON PURINA	7:06 Am	95
7/29/92	#2	2-54846 8174	STANDARD FOLDING CARTON	12:57 Am	96

ARSENIC, TOTAL	2 mg/kg	(Composite 85, 86, 87, 88, 89 & 90)
BARIUM, TOTAL	16 mg/Kg	
CADIUM, TOTAL	<0.5 mg/kg	
CHROMIUM, TOTAL	3 mg/Kg	
LEAD, TOTAL	2 mg/kg	
MERCURY, TOTAL	<0.5 mg/Kg	
SELENIUM, TOTAL	<0.5 mg/kg	
SILVER, TOTAL	<0.5 mg/kg	
PCB, TOTAL	<0.5 mg/kg	

AUGUST 1992

project number 922044

Date	MACHINE	Customer order number	Customer	Time	Sample #
8/3/92	#1	1-54977 78053	GRAPHIC PACKAGING	10:15 pm	97
8/19/92	#1	1-54908 4231	LAPORTE	11:05 pm	98
8/29/92	#1	1-54985 4361	LAPORTE	3:25 AM	99
8/1/92	#2	2-54898 2018	BECK CARTON	7:07 pm	00
8/15/92	#2	2 54707 23428	J. G. CLARK	4.04 pm	101
8/28/92	#2	2-54928 10714	FIELD CONTAINER	7:27 pm	102
8/11/92	#1	1-54948 3304	MERCHANTS	1:30 AM	103
8/17/92	#1	1-01061 35204	RALSTON PURINA	8:08 AM	104
8/31/92	#1	1-54985 4361	LAPORTE	4:19 pm	105
8/3/92	#2	2-54702 23421	J. G. CLARK	4:30 pm	106
8/15/92	#2	2-54707 23428	J.G. CLARK	2:32 pm	107
8/25/92	#2	2-54937 8848-B	ST. CLAIR PACKWELL	5:56 AM	108

composite sample (97, 98, 99, 100, 101 & 102)

ARSENIC, TOTAL	< 1 mg/Kg
BARIUM, TOTAL	16 mg/Kg
CADIUM, TOTAL	< 0.5 mg/Kg
CHROMIUM, TOTAL	2 mg/Kg
LEAD, TOTAL	1 mg/Kg
MERCERY, TOTAL	< 0.5 mg/Kg
SELENIUM, TOTAL	< 0.5 mg/Kg
SILVER, TOTAL	< 0.5 mg/Kg
PCB, TOTAL	< 0.33 mg/Kg

project # 922444

September 1992

Date	Machine	Customer order number	Customer	time	Sample #
9/2/92	#1	1-55007 12655	Beresford	6 55 am	109
9/18/92	#1	1-01057 35200	RALSTON Purina	6.56 pm	110
9/30/92	#1	1-55134 12088	Field Container	6:10 am	111
9/1/92	#2	2-01061 35204	RALSTON PURINA	3 05 am	112
9/18/92	#2	2-08348 19101347	Fort Howard	9. 11 am	113
9/ / 92	#2	2-55146 4500	LaPorte	3.30 pm	114
9/1/92	#1	1-55047 3689	Southern Standard	4 45 pm	115
9/14/92	#1	1-55055 4405	LaPorte	1.14 pm	116
9/29/92	#1	1-55134 12088	Field Container	2:55 am	117
9/8/92	#2	2-54990 2379	Americraft	7:10 am	118
9/14/92	#2	2-08346 0191001347	Fort Howard	1:27 pm	119
9/28/92	#2	2-54702 23421	J. G Clark	6:13 am	120

Samples #109-#114

Arsenic, total	< 1 mg/kg
Barium, total	15 mg/kg
Cadium, total	< 0.5 mg/kg
Chromium, total	2 mg/kg
Lead, total	1 mg/kg
Mercury, total	< 0.5 mg/kg
Selenium, total	< 0.5 mg/kg
Silver, total	< 0.5 mg/kg
PCB, total	< 330 ug/kg

project # 922813

October 1992

Date	Machine	Customer order number	Customer	time	Sample #
10/3/92	#1	4501	La Porte	6:03 am	121
10/20/92	#1	1580	J. G. Clark	8:12 am	122
10/27/92	#1	39710	Ralston Purina	6:10 am	123
10/7/92	#2	4550	Ralston Purina	3:29 pm	124
10/12/92	#2	1581	J. G. Clark	11:35 pm	125
10/31/92	#2	12632	Field Container	12:35 am	126
10/4/92	#1	4371	La Porte	9:55 pm	127
10/12/92	#1	1581	J. G. Clark	8:46 am	128
10/25/92	#1	516763	Ivy Hill	3.45 pm	129
10/1/92	#2	36370	Ralston Purina	7:07 am	130
10/14/92	#2	4063	Shorewood Pkg	2:53 am	131
10/25/92	#2	1393	J. G. Clark	2:40 am	132

Arsenic, total	< 1 mg/kg
Barium, total	16 mg/kg
Cadium, total	< 0.5 mg/kg
Chromium, total	2 mg/kg
Lead, total	< 1 mg/kg
Mercury, total	< 0.5 mg/kg
Selenium, total	< 0.5 mg/kg
Silver, total	< 0.5 mg/kg
PCB, total	< 330 ug/kg

project 922813

November 1992

Date	Machine	Customer order number	Customer	time	sample #
11/1/92	#1	12937	Field Cont.	2:52	133
11/8/92	#1	79500	Graphic Pack.	4:10 am	134
11/29/92	#1	13541	Field Cont.	6:58 am	135
11/1/92	#2	12611	Field Cont.	4:11 pm	136
11/13/92	#2	3986	Southern Std.	11:45 pm	137
11/23/92	#2	111692	Paper Pkg	5:07 am	138
11/1/92	#1	12937	Field Cont.	6:10 am	139
11/12/92	#1	39710	Ralston Purina	7:23 am	140
11/26/92	#1	33455	Southfield Carton	2:40 am	141
11/7/92	#2	517397	Ivy Hill	9:53 pm	142
11/16/92	#2	22187-1	Outlook	7:21 am	143
11/29/92	#2	13541	Field Cont	5:55 am	144

(133-138)

Arsenic, total	< 1 mg/kg
Barium, total	14 mg/kg
Cadium, total	< 0.5 mg/kg
Chromium, total	1 mg/kg
Lead, total	< 1 mg/kg
Mercury, total	< 0.5 mg/kg
Selenium, total	< 0.5 mg/kg
Silver, total	< 0.5 mg/kg
PCB, total	< 330 ug/kg

Project number 930027

December 1992

Date	Machine	Customer order number	Customer	time	Sample
12/19/92	#1	1-55320 4761	La Porte	7.45 am	145
12/19/92	#1	1-55420 14119	Field Container	10:33 am	146
12/31/92	#1	1-55079 11891	Field Container	3:16 pm	147
12/06/92	#2	2-55359 603374	Shorewood Pkg	9:34 pm	148
12/13/92	#2	2-55290 33585	Southfield Carton	9:54 am	149
12/27/92	#2	2-55466 2937	J. G. Clark	5:57 am	150
12/5/92	#1	1-55279 517404	Ivy Hill	4:15 am.	151
12/15/92	#1	1-55078 11890	Field Container	8:42 am	152
12/23/92	#1	1-55441 4885	La Porte	7:14 am	153
12/ /92	#2	2-54606 36370	Ralston Purina	6:35 pm	154
12/18/92	#2	2-55415 4864	La Porte	1:11 pm	155
12/31/92	#2	2-55446 4286	Southern Std	6:45 pm	156

Arsenic, total	< 1 mg/kg
Barium, total	16 mg/kg
Cadmium, total	< 0.5 mg/kg
Chromium, total	1 mg/kg
Lead, total	< 2 mg/kg (HIGH DETECTION LIMIT WAS DUE TO sample matrix INTERFERENCE)
Mercury, total	< 0.5 mg/kg
Selenium, total	< 1 mg/kg
Silver, total	< 0.5 mg/kg
PCB, total	< 330 ug/kg

project number 930255

January 1993

Date	Machine	Customer order number	Customer	time	sample
1/2/93	#1	1-55443 4886	LaPorte	12:10 pm	157
1/24/93	#1	1-55592 4560	Southern Std.	4:53 pm	158
1/31/93	#1	1-55620 2581	Am. C.	11:06 am.	159
1/6/93	#2	2-55495 518154	Ivy Hill	4:42 pm	160
1/10/93	#2	2-55490 4926	LaPorte	7:31 am	161
1/26/93	#2	2-55581 8544	Std Folding	7:25am	162
1/10/93	#1	1-55407 517919	Ivy Hill	7:00 am.	163
1/19/93	#1	1-55547 7073	MILTON STERNBERGER	6:57am.	164
1/31/93	#1	1-55622 11134	W.C.	6:15 am	165
1/1/93	#2	2-55448 4288	Southern Std.	11:27 am.	166
1/19/93	#2	2-01057 35200	Ralston Purina	4.45am	167
1/31/93	#2	2-55528 4422	Southern Std	5:50 am	168

Arsenic, Total	1 mg/kg
Barium, total	16 mg/kg
Cadmium, total	<0.5 mg/kg
Chromium, total	2 mg/kg
Lead, total	2 mg/kg
Mercury, total	<0.5 mg/kg
Selenium, total	<0.5 mg/kg
Silver, total	<0.5 mg/kg
PCB, total	<330 ug/kg

project # 930470

February 1993

Date	Machine	Custom order number	Customer	Time	Sample
2/9/93	1	1-55641 39867	Ralston Purina	6:10 am	169
2/19/93	1	1-55570 592640	Consolidated	3:13 pm	170
2/28/93	1	1-55827 15641	Field Container	10:23 pm	171
2/4/93	2	2-55526 4420	Southern Standard	4:44 pm	172
2/13/93	2	2-55702 5090	La Porte	5:44 pm	173
2/23/93	2	2-55687 4622	Southern Std.	12:15 am	174
2/1/93	1	1-55620 2581	Americraft	9:43 am	175
2/15/93	1	1-55647 518467	Ivy Hill	9:12 am	176
2/25/93	1	1-55641 39867	Ralston Purina	6:05 am	177
2/2/93	2	2-55527 4421	Southern Std.	12:12 pm	178
2/12/93	2	2-55702 5090	LaPorte	2:40 am	179
2/26/93	2	2-08347 91001347	Fort Howard	8:46 pm	180

Arsenic, total	1 mg/kg
Barium, total	15 mg/kg
Cadmium, total	< 0.5 mg/kg
Chromium, total	2 mg/kg
Lead, total	< 1 mg/kg
Mercury, total	< 0.5 mg/kg
Selenium, total	< 0.5 mg/kg
Silver, total	< 0.5 mg/kg
PCB, total	< 330 ug/kg

project # 930 742

march 1993

Date	Machine	Custom order number	Customer	Time	Sample
3/1/93	#1	1-55736 33115	Southfield Carton	5.49 pm	181
3/12/93	#1	1-55716 4613	Joy Cone	6.37 Am	182
3/27/93	#1	1-55987 005313	La Porte	6.57 pm	183
3/1/93	#2	2-55788 5146	La Porte	1:10 AM	184
3/16/93	#2	2-55782 4645	Ralston Purina	2:35 am	185
3/21/93	#2	2-55860 4802	Southern Std.	3:26 pm	186
3/6/93	#1	1-55640 39866	Ralston Purina	4:50 am	187
3/22/93	#1	1-55872 59914	American Pkg.	5 55 am	188
3/31/93	#1	1-56012 603829	Shorewood Pkg	8:18 am	189
3/7/93	#2	2-55831 55831	Ivy Hill	10:11 pm	190
3/18/93	#2	2-55868 15802	Field Container	3.50 am	191
3/29/93	#2	2-55974 016358	Field Container	2:28 Am	192

Arsenic, total = 2 mg/kg
Barium, total = 13 mg/kg
Cadmium, total = < 0.5 mg/kg
Chromium, total = 2 mg/kg
Lead, total = 1 mg/kg
Mercury, total = < 0.5 mg/kg
Selenium, total = < 0.5 mg/kg
Silver, total = < 0.5 mg/kg
PCB, total = < 330 ug/kg

* PCB Aroclor 1016, 1221, 1232, 1242, 1248, 1254, 1260

project # 931035

April 1993

Date	Machine	Customer order #	Customer	Time	sample #
4/7/93	1	1-55641 39867	Ralston Purina	1 45 am	193
4/18/93	1	1-08347 1347	Fort Howard	8:32 am	194
4/25/93	1	1-56156 017047	Field Container	1:28 am	195
4/11/93	2	2-55982 003888	J. G. Clark	5.36 pm	196
4/14/93	2	2-56107 13806	B Box	4.35 am	197
4/21/93	2	2-56133 005434	La Porte	10.13 am	198
4/5/93	1	1-55978 005306	La Porte	12.39 pm	199
4/15/93	1	1-55640 39866	Ralston Purina	4.36 pm	200
4/29/93	1	1-56165 005472	La Porte	2.17 pm	201
4/4/93	2	2-55990 005317	La Porte	5:10 pm	202
4/17/93	2	2-56111 8736	Standard Folding	9:04 pm	203
4/29/93	2	2-56026 4993	Southern Standard	9:32 pm	204

Arsenic, Total = 1 mg/Kg
Barium, Total = 13 mg/Kg
Cadmium, total = <0.5 mg/Kg
chromium, total = 2 mg/Kg
Lead, total = <1 mg/Kg
Mercury, total = <0.5 mg/Kg
Selenium, total = <0.5 mg/Kg
Silver, total = <0.5 mg/Kg

PCB, total NA ug/Kg
PCB Aroclor 1016, 1221, 1232, 1242, 1248, 1254, 1260 = <330 ug/Kg

project # 931328

May 1993

Date	Machine	Customer order #	Customer	Time	Sample #
05/01/93	1	1-56204 005505	La Porte	5:55 am	205
05/13/93	1	1-56289 005558	La Porte	3:08 am	206
05/26/93	1	1-56284 017397	Field Container	5:55 am	207
05/04/93	2	19101347	Fort Howard Paper	8:44 pm	208
05/17/93	2	2-56303 3580	Beck	12:50 am	209
05/31/93	2	2-56337 40111	Old Dominion	7:50 pm	210
05/04/93	1	1-56212 3155-2	Americraft	7:12 pm	211
05/22/93	1	1-56027 003819	J. G. Clark	9:55 pm	212
05/31/93	1	1-55643 39869	Ralston Purina	11:07 am	213
05/02/93	2	2-55643 39869	" "	3:34 am	214
05/13/93	2	2-56282 8798-1	Standard Folding	6:19 pm	215
05/27/93	2	2-56257 5204	Southern Std.	10:00 pm	216

Arsenic, total = 4 mg/kg
Barium, total = 16 mg/kg
Cadmium, total = <0.5 mg/kg
Chromium, total = 3 mg/kg
Lead, total = 2 mg/kg
Mercury, total = <0.5 mg/kg
Selenium, total = <2 mg/kg
Silver, total = <0.5 mg/kg
PCB Aroclors total = Na ug/kg

Elevated detection limit due to sample matrix interference

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = <330 ug/kg

project # 931731

June 1993

Date	Machine	Customer order #	Customer	Time	Sample #
6/7/93	1	1-54969 0191001347	Fort Howard	7:10 am	217
6/23/93	1	1-56590 0617933	All Seasons	1:00 am	218
6/29/93	1	1-56623 018756	Field Container	8:26 am	219
6/3/93	2	2-56222 034269	Southfield Carton	6:00 am	220
6/16/93	2	2-56431 5317	Southern Std.	1:00 pm	221
6/30/93	2	2-56427 5313	Southern Std.	7:31 am.	222
6/2/93	1	1-56426 8852	Standard Folding	1:18 pm	223
6/13/93	1	1-56527 005721	La Porte	6:23 am	224
6/26/93	1	1-56593 005769	La Porte	9:05 am	225
6/2/93	2	2-56221 034268	Southfield Carton	11:53 am	226
6/15/93	2	2-56429 5315	Southern Std.	12:20 am	227
6/26/93	2	2-56620 005795	La Porte	3:36 pm	228

Arsenic, total = 1 mg/kg
Barium, total = 13 mg/kg
Cadmium, total = < 0.5 mg/kg
Chromium, total = 2 mg/kg
Lead, total = 1 mg/kg
Mercury, total = < 0.5 mg/kg
Selenium, total = < 0.5 mg/kg
Silver, total = < 0.5 mg/kg
PCB Aroclors total = NA ug/kg

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug/kg

project# 932006

July 1993

Date	Machine	Customer order #	Customer	time	Sample #
7/1/93	1	1-56573 76282622	Consolidated	4:25 am	229
7/15/93	1	1-08347 19100134	Fort Howard	4.24 pm	230
7/31/93	1	1-56858 604291	Shorewood Pkg.	6:38 pm	231
7/1/93	2	2-56634 018778	Field Container	4:05 am	232
7/19/93	2	2-56658 004795	J.G Clark	11:15 pm	233
7/22/93	2	2-56797 12394	Nordic Pkg.	12:05 pm	234
7/7/93	1	1-56586 919	Great Plains	11:14 pm	235
7/14/93	1	1-56681 14206	Beresford	9.17 pm	236
7/26/93	1	1-55640 39866	Ralston Purina	3:14 pm	237
7/7/93	2	2-56550 018442	Field Container	7:50 pm	238
7/20/93	2	2-56659 604796	J. G Clark	3:13 pm	239
7/ /93	2	2-5683 3725	Americraft	7:47 pm	240

Arsenic, total = 1 mg/kg
Barium, total = 16 mg/kg
Cadmium, total = < 0.5 mg/kg
Chromium, total = 3 mg/kg
Lead, total = 1 mg/kg
Mercury, total = < 0.5 mg/kg * Elevated detection
Selenium, total = < 4 mg/kg limit due to sample
Silver, total = < 0.5 mg/kg matrix interference
PCB-Aroclors, total = NA ug/kg

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug/kg

project # 932434

August 1993

Date	Machine	Customer order #	Customer	time	Sample #
8/4/93	1	1-56914 3780	Americraft	4:47 pm	241
8/13/93	1	1-55641 39867	Ralston Purina	4:37 am	242
8/25/93	1	1-57050 006130	La Porte	12:07 pm	243
8/11/93	2	2-56943 30705	Americraft	7:17 am	244
8/17/93	2	2-56991 2791	Americraft	10:41 am	245
8/29/93	2	2-57018 07642906	Consolidated	2:00 am	246
8/2/93	1	1-55640 39866	Ralston Purina	3:42 pm	247
8/18/93	1	1-57013 020257	Field Container	5:47 am	248
8/29/93	1	1-56758 023109	Marseilles	6:17 am	249
8/4/93	2	2-56867 005981	La Porte	7:35 am	250
8/15/93	2	2-56782 042330	Ralston Purina	12:56 AM	251
8/27/93	2	2-57022 1181	Southern Standard	11:40 am	252

Arsenic, total = 2 mg/kg
Barium, total = 18 mg/kg
Cadmium, total = < 0.5 mg/kg
Chromium, total = 4 mg/kg
Lead, total = 2 mg/kg
Mercury, total = < 0.5 mg/kg
selenium, total < 5 mg/kg
Silver, total < 0.5 mg kg
PCB Aroclors, total NA ug/kg

Elevated detection limit due to matrix interference

PCB Aroclor 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug/kg

project # 932798

September 1993

Date	Machine	Customer order #	Customer	Time	Sample #
9/8/93	#1	1-57147 006180	LaPorte	12:25 am	253
9/14/93	#1	1-57168 12565	Nordic Packaging	10:52 am	254
9/23/93	#1	1-56364 0191001347	Fort Howard	8:17 am	255
9/6/93	#2	2-56995 005306	J.G. Clark	8:08 pm	256
9/17/93	#2	2-57182 12575	Nordic Packaging	3:56 pm	257
9/25/93	#2	2-57053 005405	J.G. Clark	5:53 am	258
9/7/93	#1	1-57147 006180	LaPorte	8:34 am	259
9/17/93	#1	1-57155 006186	LaPorte	10:42 am	260
9/26/93	#1	1-57198 020774	Field Container	2:54 am	261
9/8/93	#2	2-57121 006172	LaPorte	7:06 am	262
9/19/93	#2	2-57051 020282	Field Container	3:51 pm	263
9/28/93	#2	2-57231 40954	Americraft	8:23 am	264

Arsenic, total = < 1 mg/kg
Barium, total = 16 mg/kg
Cadmium, total = < 0.5 mg/kg
Chromium, total = 2 mg/kg
Lead, total = 2 mg/kg
Mercury, total = < 0.5 mg/kg
Selenium, total = < 2 mg/kg ELEVATED DETECTION LIMIT due to sample matrix interference
Silver, total = < 0.5 mg/kg
PCB Aroclors, total = NA ug/kg

PCB Aroclors, 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug/kg

project # 933163

October 1993

Date	Machine	Customer order #	Customer	Time	Sample #
10/6/93	#1	1-57302 0191001347	Fort Howard	7:06 am	265
10/14/93	#1	1-57304 14534	Beresford	10:45 pm	266
10/27/93	#1	1-56364 19100134	Fort Howard	10:11 pm	267
10/9/93	#2	2-57316 0191001347	Fort Howard	8:08 am	268
10/18/93	#2	2-57342 604613	Shorewood Pkg.	3:15 pm	269
10/31/93	#2	2-57463 006470	La Porte	1:07 pm	270
10/8/93	#1	2-57205 006237	La Porte	4:32 am	271
10/18/93	#1	1-57322 006368	La Porte	6:10 pm	272
10/30/93	#1	1-57333 021366	Field Container	6:47 am	273
10/3/93	#2	2-57118 1248	Southern Std.	6:31 am	274
10/16/93	#2	2-57343 4202-1	Americraft	6:06 pm	275
10/29/93	#2	2-57393 1439	Southern Std.	3:10 pm	276

Composite of 265-260

Arsenic, total = < 1 mg/kg
Barium, total = 14 mg/kg
Cadmium, total = < 0.5 mg/kg
Chromium, total = 2 mg/kg
Lead, total = 1 mg/kg
Mercury, total = < 0.5 mg/kg
Selenium, total = < 0.5 mg/kg
Silver, total = < 0.5 mg/kg
PCB Aroclors, total = Na ug/kg

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug/kg

project # 933625

November 1993

Date	Machine	Customer order #	Customer	Time	Sample #
11/3/93	#1	1-57286 039866	Ralston Purina	5:01 am	277
11/9/93	#1	1-57536 022215	Field Container	10:11 pm	278
11/27/93	#1	1-57578 006573	LaPorte	5:12 am	279
11/4/93	#2	2 57421 006435	LaPorte	9:31 pm	280
11/15/93	#2	2-57386 021624	Field Container	7:03 am	281
11/29/93	#2	2-57626 006597	LaPorte	7:17 am	282
11/4/93	#1	1-54903 91001347	Fort Howard	4:54 pm	283
11/16/93	#1	1-57540 07-66226	Consolidated	10:09 pm	284
11/28/93	#1	1-57578 006573	LaPorte	7:00 am	285
11/4/93	#2	2-57421 006435	LaPorte	1:45 am	286
11/11/93	#2	2-57513 006495	LaPorte	3:54 pm	287
11/24/93	#2	2-57610 91001347	Fort Howard	5:59 pm	288

Arsenic, total = 2 mg/kg
Barium, total = 17 mg/kg
Cadmium, total = <0.5 mg/kg
Chromium, total = 3 mg/kg
Lead, total = 2 mg/kg
Mercury, total = <0.5 mg/kg
Selenium, total = <2 mg/kg
Silver, total = <0.5 mg/kg
PCB Aroclors, total = NA ng/kg

Elevated detection limit due to sample matrix interference

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = <330 ug/kg

project # 940042

December 1993

Date	Machine	Customer order #	Customer	Time	Sample #
12/11/93	# 1	1-57554 006539	LaPorte	5:47 am	289
12/16/93	# 1	39866	Ralston Purina	4:51 pm	290
12/27/93	# 1	1-57708 023195	Field Container	11:24 am	291
12/10/93	# 2	2-57600 006592	LaPorte	6:50 pm	292
12/18/93	# 2	2-57655 12797	Nordic Pkg	10:40 am	293
12/30/93	# 2	2-57689 023178	Field Container	11:21 pm	294
12/7/93	# 1	1-57516 006498	LaPorte	3:43 am	295
12/14/93	# 1	1-55641 39867	Ralston Purina	10:56 AM	296
12/22/93	# 1	1-57751 006713	LaPorte	5:37 am	297
12/8/93	# 2	2-57626 006597	LaPorte	6:33 pm	298
12/15/93	# 2	2-57584 022806	Field Container	10:20 am	299
12/23/93	# 2	2-57413 4302	Americraft	8:13 am	300

Arsenic, total = < 1 mg/kg
Barium, total = 17 mg/kg
Cadmium, total = < 0.5 mg/kg
Chromium, total = 2 mg/kg
Lead, total = 2 mg/kg
Mercury, total = < 0.5 mg/kg
Selenium, total = < 1 mg/kg
Silver, total = < 0.5 mg/kg
PCB Aroclors, total = NA ug/kg

Elevated detection limit due to sample matrix interference

PCB Aroclor 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug/kg

project # 940382

January 1994

Date	Machine	Customer order #	Customer	Time	Sample #
1/8/94	1	1-57686 023165	Field Container	12:57 am	301
1/22/94	1	1-57681 191001347	Fort Howard	9:49 am	302
1/31/94	1	1-57830 006760	LaPorte	7:45 am	303
1/3/94	2	2-57285 039865	Ralston Purina	2:29 am	304
1/18/94	2	2-57667 006639	LaPorte	8:36 am	305
1/26/94	2	2-57768 023658	Field Container	2:21 am	306
1/6/94	1	1-57791 14986	BB	5:39 am	307
1/15/94	1	1-57829 006761	La Porte	8:27 am	308
1/28/94	1	1-57731 006699	La Porte	11:10 pm	309
1/12/94	2	2-57831 006800	La Porte	9:37 pm	310
1/21/94	2	2-57845 28666-2	Boelter	10:38 am	311
1/31/94	2	2-57735 006696	La Porte	6.10 am	312

Arsenic, total = < 1 mg/kg
Barium, total = 16 mg/kg
Cadmium, total = < 0.5 mg/kg
Chromium, total = 2 mg/kg
Lead, total = 1 mg/kg
Mercury, total = < 0.5 mg/kg
Selenium, total = < 0.5 mg/kg
Silver, total = < 0.5 mg/kg
PCB Aroclors, total = NA ug/kg

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug/kg

project # 940584

February 1994

Date	Machine	Customer order #	Customer	Time	Sample #
2/4/94	1	1-57950 07-68109	Consolidated	11:18	313
2/19/94	1	1-58061 28782	Boelter	7:23	314
2/25/94	1	1-58037 07-684857	Consolidated	9:14	315
2/6/94	2	2-57732 006700	LaPorte	11:12	316
2/16/94	2	2-57899 44757	Ralston Purina	11:42	317
2/24/94	2	2-58036 007008	LaPorte	6:00	318
2/12/94	1	1-57682 19101347	Fort Howard	12:32	319
2/21/94	1	1-55641 39867	Ralston Purina	5:03	320
2/28/94	1	1-55641 039867	Ralston Purina	7:30	321
2/9/94	2	2-57923 035410	Southfield	12:06	322
2/20/94	2	2-58078 19582-72	L. R.	12:36	323
2/28/94	2	2-57986 006941	LaPorte	6:08	324

Arsenic, total = 3 mg/kg
Barium, total = 14 mg/kg
Cadmium, total = < 0.5 mg/kg
Chromium, total = 2 mg/kg
Lead, total = 2 mg/kg
Mercury, total = 0.5 ~~mg~~ µg/kg
Selenium, total = < 0.5 ~~mg~~ µg/kg
Silver, total = < 0.5 ~~mg~~ µg/kg
PCB Aroclors, total = Na µg/kg

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug/kg

project # 940931

March 1994

Date	Machine	Customer order #	Customer	Time	Sample #
3/5/94	1	1-58050 007029	LaPorte	8:18	325
3/18/94	1	1-58006 006984	LaPorte	8:26	326
3/28/94	1	1-57681 91001347	Fort Howard	4:49	327
3/4/94	2	2-58118 13036	Nordic Pkg	1:08	328
3/12/94	2	2-58100 025311	Field Container	11:17	329
3/21/94	2	2-58032 006991	LaPorte	2:39	330
3/10/94	1	1-53050 007029	LaPorte	3:49	331
3/22/94	1	1-58119 007186	LaPorte	7:21	332
3/31/94	1	1-58172 007179	LaPorte	1:25	333
3/8/94	2	2-58134 025701	Field Container	1:51	334
3/13/94	2	2-58053 024922	Field Container	9:28	335
3/25/94	2	2-58240 5260-5	Americraft	2:35	336

Arsenic, total = 2 mg/kg
Barium, total = 15 mg/kg
Cadmium, total = <0.5 mg/kg
Chromium, total = 2 mg/kg
Lead, total = 2 mg/kg
Mercury, total = <0.5 mg/kg
Selenium, total = <0.5 mg/kg
Silver, total = <0.5 mg/kg
PCB Aroclors, total NA ug/kg

mg/kg

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = <330 ug/kg

project # 941250

April 1994

Date	Machine	Customer order #	Customer	Time	Sample #
4/11/94	1	1-58172 007179	La Porte	10:42 pm	337
4/20/94	1	1-57657 91001347	Fort Howard	4:18 pm	338
4/30/94	1	1-58155 007394	J.G. Clark	10:09 pm	339
4/3/94	2	2-58257 026651	Field Container	3:00 pm	340
4/10/94	2	2-58302 523970	Ivy Hill	11:10 pm	341
4/24/94	2	2-58190 007206	La Porte	9:50 pm	342
4/3/94	1	1-57286 039866	Ralston Purina	4:44 pm	343
4/16/94	1	1-58170 007177	La Porte	9:24 am	344
4/27/94	1	1-57656 91001347	Fort Howard	4:22 pm	345
4/5/94	2	2-58272 026667	Field Container	6:06 pm	346
4/13/94	2	2-58308 026985	Field Container	3:18 pm	347
4/30/94	2	2-58259 026594	Field Container	4:30 pm	348

Arsenic, total = 1 mg/kg
Barium, total = 13 mg/kg
Cadmium, total = < 0.5 mg/kg
Lead, total = 2 mg/kg
Mercury, total = < 0.5 ~~mg~~ mg/kg
Selenium, total = < 0.5 ~~mg~~ mg/kg mg/kg
Silver, total = < 0.5 ~~mg~~ mg/kg
PCB Aroclors total = Na ug/kg

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug/kg

May 1994

Date	Machine	Customer order #	Customer	Time	Sample
5/6/94	#1	1-57656 1347	Fort Howard	12:21 pm	349
5/12/94	#1	1-58403 007448	La Porte	4:45 am	350
5/18/94	#1	1-58403 007443	La Porte	3:24 pm	351
5/9/94	#2	2-5842 035921	Southfield	4:42 pm	352
5/13/94	#2	2-55824 398192	Ralston Purina	5:50 am	353
5/22/94	#2	2-58475 25215	Boelter	6:00 am	354
5/9/94	#1	1-58372 7399	LaPorte	6:07 am	355
5/13/94	#1	1-58388 15582		4:01 pm	356
5/21/94	#1	1-58458 007510	La Porte	5:18 pm	357
5/3/94	#2	2-58411 59000131	Ivy Hill	5:52 am	358
5/11/94	#2	2-58426 027783	Field Container	5:57 pm	359
5/17/94	#2	2-57675 19101347	Fort Howard	11:18 pm	360

Arsenic, total = < 1 mg/kg
Barium, total = 11 mg/kg
Cadmium, total = < 0.5 mg/kg
Chromium, total = 2 mg/kg
Lead, total = 1 mg/kg
Mercury, total = < 0.5 ug/kg
Selenium, total = < 0.5 ug/kg mg/kg
Silver, total = < 0.5 mg/kg
PCB Aroclors total = NA ug/kg

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug/kg

project # 942076

June 1994

Date	Machine	Customer order #	Customer	Time	Sample
6/9/94	1	1-58549 29159	Field Container	2:03 pm	361
6/19/94	1	1-58512 007608	LaPorte	11:53 pm	362
6/30/94	1	1-58512 007608	LaPorte	10:53 am	363
6/1/94	2	2-58467 007537	LaPorte	7:40 am	364
6/12/94	2	2-58372 7399	LaPorte	4:31 am	365
6/26/94	2	2-55825 398692	Ralston Purina	11:14 pm	366
6/5/94	1	1-58516 28659	Field Container	4:42 pm	367
6/17/94	1	1-58570 046740	Quaker Oats	11:12 pm	368
6/24/94	1	1-58615 036144	Southfield Carton	1:35 pm	369
6/5/94	2	2-58429 007475	LaPorte	8:52 am	370
6/8/94	2	2-58476 007573	LaPorte	4:13 pm	371
6/28/94	2	2-55825 398692	Ralston Purina	7:36 am	372

Arsenic, total = < 1 mg/kg
Barium, total = 12 mg/kg
Cadmium, total = < 0.5 mg/kg
Chromium, total = 1 mg/kg
Lead, total = 2 mg/kg
Mercury, total = < 0.5 mg/kg
Selenium, total = < 0.5 mg/kg
Silver, total = < 0.5 mg/kg
PCB Aroclors, total = NA ug/kg

mg/kg

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 – < 330 ug/kg

project # 942299

July 1994

Date	Machine	Customer order #	Customer	Time	Sample
7/11/94	1	1-58355 024523	Field Container	5:53 pm	373
7/18/94	1	1-58355 024523	Marseilles	9:58 am	374
7/26/94	1	1-58665 07794	LaPorte	5:50 am	375
7/2/94	2	2-58659 60613	Americraft	11:40 pm	376
7/14/94	2	2-58646 007767	LaPorte	2:23 am	377
7/30/94	2	2-58795 13434	Nordic Pkg.	8:52 am	378
7/9/94	1	1-58727 94001907	Fort Howard	8:11 pm	379
7/16/94	1	1-58733 2556	Southern Standard	3:59 pm	380
7/25/94	1	1-58665 07794	LaPorte	2:34 am	381
7/5/94	2	2-58614 036153	Southfield Carton	2:42 pm	382
7/13/94	2	2-57287 039869	Ralston Purina	7:48 am	383
7/23/94	2	2-58646 007767	La Porte	7.54 am	384

Arsenic, total = < 1 mg/kg
Barium, total = 13 mg/kg
Cadmium, total = < 0.5 mg/kg
Chromium, total = < 1 mg/kg
Lead, total = 2 mg/kg
Mercury, total = < 0.5 mg/kg
Selenium, total = < 0.5 mg/kg
Silver, total = < 0.5 mg/kg
PCB Aroclors, total = Na ug/kg

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug/kg

project 942692

August 1994

Date	Machine	Customer order #	Customer	Time	Sample #
8/8/94	1	1-58665 07794	LaPorte	10:08 am	385
8/23/94	1	1-58910 047815	Nestle	9:49 am	386
8/31/94	1	1-58665 007794	LaPorte	10:46 am	387
8/5/94	2	2-58603 636092	Southfield	1:41 pm	388
8/10/94	2	2-58610 008623	J. G. Clark	7:30 am	389
8/25/94	2	2-58785 030225	Field Container	10:00 pm	390
8/5/94	1	1-58830 55117	Boelter	8:07 am	391
8/15/94	1	1-58665 7794	LaPorte	7:12 pm	392
8/30/94	1	1-58665 7794	LaPorte	4:06 am	393
8/2/94	2	2-58484 046561	Ralston Purina	4:50 am	394
8/15/94	2	2-58767 7893	LaPorte	2:10 am	395
8/27/94	2	2-58817 7962	LaPorte	5:24 pm	396

Arsenic, total = < 1 mg / kg
Barium, total = 16 mg / kg
Cadmium, total = < 0.5 mg / kg
Chromium, total = 2 mg / kg
Lead, total = 2 mg / kg
Mercury, total = < 0.5 mg / kg
Selenium, total = < 0.5 mg / kg
Silver, total = < 0.5 mg / kg
PCB Aroclors, total = NA

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ng / kg

project # 943021

September 1994

Date	Machine	Customer order #	Customer	Time	Sample #
9/20/94	1	1-58869 010022	Field Container	1:10 pm	397
9/11/94	1	1-57615 1913	Fort Howard	6:25 pm	398
9/2/94	1	1-57656 91001347	Fort Howard	9:29 pm	399
9/30/94	2	2-59032 008186	LaPorte	10:54 am	400
9/21/94	2	2-58603 036092	Southfield	7:20 am	401
9/6/94	2	2-58741 030051	Field Container	10:30 am	402
9/24/94	1	1-59041 25555-3	Boelter	12:31 pm	403
9/6/94	1	1-57657 19101347	Fort Howard	1:12 am	404
9/1/94	1	1-58735 007868	LaPorte	7:55 pm	405
9/27/94	2	2-59027 031727	Field Container	6:00 am	406
9/16/94	2	2-58602 036091	Southfield	12:00 pm	407
9/1/94	2	2-58874 06389-3	Americraft	5:52 am	408

Arsenic, total = 1 mg/kg
Barium, total = 14 mg/kg
Cadmium, total = < 0.5 mg/kg
Chromium, total = 2 mg/kg
Lead, total = 1 mg/kg
Mercury, total = < 0.5 mg/kg
Selenium, total = < 2 mg/kg Elevated detection limit due to sample matrix interference
Silver, total = < 0.5 mg/kg
PCB Aroclors, total = NA ug/kg

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug/kg

project # 993327

October 1994

Date	Machine	Customer order #	Customer	Time	Sample #
10/2/94	1	1-58798 91001347	Fort Howard	8:17 am	409
10/18/94	1	1-57681 91001347	Fort Howard	7.31 am	410
10/27/94	1	1-59228 8999	St. Joe	4:32 am	411
10/10/94	2	2-59158 13679	Nordic Pkg	10.10 am	412
10/15/94	2	2-58860 036402	South field	7.28 am	413
10/29/94	2	2-58860 036402	South field	2:55	414
10/15/94	1	1-58870 010023	Field Container	9.43 am	415
10/21/94	1	1-59033 008187	La Porte	10:47 am	416
10/29/94	1	1-59075 008246	La Porte	6:55 am	417
10/2/94	2	2-58966 008109	La Porte	5:48 am	418
10/9/94	2	2-58990 009710	Ralston Purina	7:10 am	419
10/19/94	2	2-59230 3039	Southern Std.	5:23 pm	420

Arsenic, total : < 1 mg/kg
Barium, total : 14 mg/kg
Cadmium, total : < 0.5 mg/kg
Chromium, total : 2 mg/kg
Lead, total : 1 mg/kg
Mercury, total : < 0.5 mg/kg
Selenium, total : 1 mg/kg
Silver, total : < 0.5 mg/kg
PCB Aroclors, total : NA

*Elevated detection limit due to matrix interference

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug/kg

project # 943723

November 1994

Date	Machine	Customer order #	Customer	Time	Sample #
11/3/94	1	1-59075 008246	LaPorte	1:56 am	421
11/11/94	1	1-5933 6948	Americraft	7:29 pm	422
11/25/94	1	1-59075 008246	LaPorte	4:05 pm	423
11/8/94	2	2-59359 9203	St. Joseph	3:14 am	424
11/20/94	2	2-59394 25689-5	Boelter	3:28 am	425
11/25/94	2	2-58896 008040	LaPorte	10:55 pm	426
11/7/94	1	1-59239 032755	Field Container	3:02 pm	427
11/18/94	1	1-59078 008249	LaPorte	2:10 am	428
11/30/94	1	1-59555 8496	LSI	4:45 pm	429
11/1/94	2	2-59272 16345	Beresford	8:43 pm	430
11/15/94	2	2-59238 032754	Field Container	8:32 pm	431
11/28/94	2	2-58896 008040	LaPorte	7:19 am	432

Arsenic, total = < 1 mg/kg
Barium total 14 mg/kg
Cadmium, total < 0.5 mg/kg
Chromium, total 2 mg/kg
Lead, total 1 mg/kg
Mercury, total < 0.5 mg/kg
Selenium, total < 1 mg/kg
Silver, total < 0.5 mg/kg
PCB Aroclors, total = Na

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug/kg

project # 950106

December 1994

Date	Machine	Customer order #	Customer	time	Sample #
12/6/94	1	1-58798 1910 1347	Fort Howard	12:17pm	433
12/13/94	1	1-59470 010282	Milwaukee	4:26 am	434
12/21/94	1	1-59413 008541	LaPorte	1:21 pm	435
12/9/94	2	2-59565 7131-3	Americraft	11:30 pm	436
12/16/94	2	2-59590 16590	Beresford	6:18 am	437
12/31/94	2	2-59251 008402	LaPorte	10:55 pm	438
12/10/94	1	1-59076 008247	LaPorte	3.37 pm	439
12/16/94	1	1-59488 008614	LaPorte	3:04 am	440
12/30/94	1	1-59492 008618	LaPorte	6:02 am	441
12/2/94	2	2-59433 008553	LaPorte	1.08 am	442
12/13/94	2	2-59305 048505	Ralston Purina	9:25 pm	443
12/22/94	2	2-59370 03683	Southfield	9.35 am	444

Arsenic, total = 3 mg/kg
Barium, total = 18 mg/kg
Cadmium, total = < 0.5 mg/kg
Chromium, total = 2 mg/kg
Lead, total = 2 mg/kg
Mercury, total = < 0.5 mg/kg
Selenium, total = < 0.5 mg/kg
Silver, total = < 0.5 mg/kg
PCB Aroclors, total = NA

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug/kg

January 1995

project # 950297

Date	Mac.	Customer order #	Customer	time	Sample #
1/11/95	1	1-59490 008616	LaPorte	4 46 pm	445
1/19/95	1	1-59490 008616	La Porte	12:50 pm	446
1/28/95	1	1-59490 008616	La Porte	10:29 am	447
1/4/95	2	2-59622 25785	Boelter	3.51 pm	448
1/16/95	2	2-59755 1017065	Old Dom	9:35 am	449
1/27/95	2	2-59491 008617	LaPorte	6:00 am	450
1/15/95	1	1-57657 19101347	Fort Howard	6.20 am	451
1/23/95	1	1-59490 008616	LaPorte	12:04 am	452
1/29/95	1	1-59851 19101347	Fort Howard	6.06 am	453
1/7/95	2	2-5970 23749-1	Boehmer	2:01 pm	454
1/21/95	2	2-59779 23974-2	Boehmer	10:22 pm	455
1/28/95	2	2-59856 38387-2	Outlook	5:18 pm	456

Arsenic, total = < 1 mg/kg
Barium, total = 14 mg/kg
Cadmium, total = <0.5 mg/kg
Chromium, total = 1 mg/kg
Lead, total = 1 mg/kg
Mercury, total = < 0.5 mg/kg
Selenium, total = < 0.5 mg/kg
Silver, total = < 0.5 mg/kg
PCB Aroclors, total = NA

PCB Aroclors, total 1016, 1221, 1232, 1242, 1248, 1254, 1260 = <330 ug/kg

February 1995 project # 950585

Date	Mac.	Customer order #	Customer	Time	Sample #
2/27/95	1	1-58899 009021	La Porte	9.40 am	457
2/11/95	1	1-59698 008823	La Porte	11:07 am	458
2/2/95	1	1-59825 008938	La Porte	1:03 am	459
2/5/95	2	2-59846 91001347	Fort Howard	8:27 pm	460
2/15/95	2	2-59491 008617	La Porte	5:25 pm	461
2/26/95	2	2-60015 036751	Field Container	8:22 am	462
2/25/95	1	1-59899 009021	La Porte	9:04 am	463
2/13/95	1	1-59959 14083	Nordic Pkg.	11:43 pm	464
2/3/95	1	1-59689 008814	La Porte	8:24 pm	465
2/4/95	2	2-59699 08824	Field Container	8:35 am	466
2/10/95	2	2-59860 008983	La Porte	8:17 pm	467
2/16/95	2	2-59695 008820	La Porte	7.30 pm	468

Arsenic, total = 2 mg/kg
Barium, total = 16 mg/kg
Cadmium, total = <0.5 mg/kg
Chromium, total = 2 mg/kg
Lead, total = 3 mg/kg
Mercury, total = <0.5 mg/kg
Selenium, total = <0.5 mg/kg
Silver, total = <0.5 mg/kg
PCB Aroclors, total = Na

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = <330 ug/kg

March 1995

project # 950985

Date	Mac	Customer order #	Customer	Time	Sample #
3/1/95	#1	1-59899 009021	LaPorte	7:09	469
3/11/95	#1	1-60018 009146	LaPorte	12:04	470
3/18/95	#1	1-60019 009222	LaPorte	2:20	471
3/2/95	#2	2-59899 009021	LaPorte	10.20	472
3/11/95	2	2-60133 16926	Beresford Box	12:57	473
3/24/95	2	2-60058 036781	Field Container	7:20	474
3/5/95	1	1-60016 009144	LaPorte	12.20	475
3/13/95	1	1-60018 009146	LaPorte	12.06	476
3/22/95	1	1-59849 19101347	Fort Howard	7:37	477
3/6/95	2	2-60056 009168	LaPorte	5:03	478
3/13/95	2	2-59691 008816	LaPorte	1:03	479
3/24/95	2	2-60058 036781	Field Container	7:20	480

Arsenic, total = 2 mg/kg
Barium, total = 16 mg/kg
Cadmium, total = < 0.5 mg/kg
Chromium, total = 2 mg/kg
Lead, total = 2 mg/kg
Mercury, total = < 0.5 mg/kg
Selenium, total = < 0.5 mg/kg
Silver, total = < 0.5 mg/kg
PCB Aroclors total = Na

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug/kg

April 1995 project # 951295

Date	Mac.	Customer order #	Customer	Time	Sample #
4/17/95	# 1	1-62339 009402	LaPorte	6:10 am	481
4/26/95	# 1	1-60043 049435	Ralston Purina	4:20 am	482
4/30/95	# 1	1-59852 19101347	Fort Howard	6:07 am	483
4/6/95	# 2	2-59989 036187	Field Container	8:43 am	484
4/22/95	# 2	2-60378 26137-1	Boelter	11:14 pm	485
4/28/95	# 2	2-60440 007465	LaPorte	12:25 pm	486
4/13/95	# 1	1-6035 1699	Beresford	11:12 am	487
4/21/95	# 1	1-60178 026084	Marseilles	3:58 am	488
4/27/95	# 1	1-60044 049436	Ralston Purina	2:27 am	489
4/4/95	# 2	1-60299 14212	Nordic Pkg.	3:00 am	490
4/17/95	# 2	2-60045 049437	Ralston Purina	1:34 pm	491
4/26/95	# 2	2-60432 038329	Field Container	7:00 am	492

Arsenic, total = 2 mg/kg (487-492)
Barium, total = 16 mg/kg
Cadmium, total = < 0.5 mg/kg
Chromium, total = 2 mg/kg
Lead, total = 8 mg/kg
Mercury, total = < 0.5 mg/kg
Selenium, total = < 0.5 mg/kg
Silver, total 0.5 mg/kg
PCB Aroclors total - NA

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug/kg

May 1995 project #951694

Date	Mac.	Customer order #	Customer	time	Sample #
5/3/95	1	1-60224 59722	Rx Systems	9:20 am	493
5/13/95	1	1-60505 009545	La Porte	11:12 pm	494
5/20/95	1	1-60505 009545	La Porte	1:25 am	495
5/8/95	2	2-60495 009535	La Porte	9:44 am	496
5/23/95	2	2-6057 00959	La Porte	10:10 am	497
5/28/95	2	2-60565 060565	Field Container	7:07 am	498
5/9/95	1	1-59851 9100:347	Fort Howard	9:04 am	499
5/23/95	1	1-60603 001072	Murfreesboro	7:37 pm	500
5/30/95	1	1-6054 012241	J.G. Clark	12:00 pm	501
5/4/95	2	2-60489 009533	La Porte	7:51 am	502
5/20/95	2	2-60505 009545	La Porte	11:15 pm	503
5/27/95	2	2-60490 037465	Southfield	10:59 am	504

Arsenic, total = 1 mg/kg
Barium, total = 14 mg/Kg
Cadmium total = <0.5 mg/Kg
Chromium, total = 2 mg/kg
Lead, total = 6 mg/kg
Mercury, total = <0.5 mg/Kg
Selenium, total = <2 mg/Kg *Elevated detection limit due to sample matrix interference
Silver, total = <0.5 mg/Kg
PCB Aroclors = NA

PCB Aroclor 1016, 1221, 1232, 1242, 1248, 1254, 1260 = <330 ug/Kg

June 1995 project # 951982

Date	Niac	Customer order #	Customer	time	Sample
6/15/95	1	1-60698 009730	LaPorte	2:20pm	505
6/22/95	1	1-60766 009820	LaPorte	5:00pm	506
6/30/95	1	1-60766 009820	LaPorte	9:52am	507
6/1/95	2	2-60577 009593	LaPorte	12:53pm	508
6/17/95	2	2-60706 009741	LaPorte	2.14 pm	509
6/29/95	2	2-60834 17378-72	Little Rock	1:05 pm	510
6/2/95	1	1-60667 14390	Nordic Pkg	6:57 am	511
6/18/95	1	1-5985? 19101341	Fort Howard	8:55 am	512
6/27/95	1	1-608235 14466	Nordic Pkg	5:50 pm	513
6/ /95	2	2-60695 009721	LaPorte	3:25 AM	514
6/ /95	2	2.60491 037526	Southfield	3:41 am	515
6/ /95	2	2-60804 013249	Salisbury	4.25 pm	516

Arsenic, total = 2 mg/kg
Barium, total = 13 mg/kg
Cadmium, total = <0.5 mg/kg
Chromium, total = 2 mg/kg
Lead, total = 2 mg/kg
Mercury, total = <0.5 mg/kg
Selenium, total = <0.5 mg/kg
Silver, total = <0.5 mg/kg
PCB Aroclors = NA

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = <330 ug/kg

project # 952332

July 1995

Date	Moc	Customer order #	Customer	Time	Sample
7/13/95	1	1-60772 026494	Marseilles	11:50 pm	517
7/23/95	1	1-60925 009952	LaPorte	11:01 pm	518
7/26/95	1	1-60926 009953	LaPorte	9:11 am	519
7/6/95	2	2-60876 26351-1	Boelter	5:25 am	520
7/15/95	2	2-60487 012113	J.G. Clark	7:44 am	521
7/27/95	2	2-60981 001072	Murfreesboro	6:34 am	522
7/3/95	1	1-60860 09861	LaPorte	4:50 am	523
7/19/95	1	1-60857 09857	LaPorte	1:50 pm	524
7/25/95	1	1-60926 009953	LaPorte	8:48 pm	525
7/3/95	2	2-60860 09861	LaPorte	1:15 am	526
7/13/95	2	2-60487 012113	J.G. Clark	4:45 am	527
7/ /95	2	2-60488 012215	J.G. Clark	7:18 pm	528

Arsenic, total = < 1 mg/Kg
Barium, total = 11 mg/Kg
Cadmium, total = < 0.5 mg/Kg
Chromium, total = 1 mg/Kg
Lead, total = 2 mg/Kg
Mercury, total = < 0.5 mg/Kg
Selenium, total = < 0.5 mg/Kg
Silver, total = < 0.5 mg/Kg
PCB Aroclors = NA

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 - < 330 ug/kg

project # 952765
9/8

August 1995

Date	Mac.	Customer order #	Customer	Time	Sample #
8/8/95	1	1-60990 010045	LaPorte	9:52 am	529
8/13/95	1	1-61089 87082	Americraft	6:03 pm	530
8/23/95	1	1-61131 07410	Beresford Box	7:50 am	531 *
8/7/95	2	2-60952 009978	LaPorte	7:50 pm	532
8/24/95	2	2-61004 040846	Field Container	9:10 am	533
8/31/95	2	1-61183 053119	Ralston Purina	2:44 pm	534
8/9/95	1	1-60971 001012	LaPorte	6:39 am	535
8/18/95	1	1-59850 01910013	Fort Howard	6:55 am	536
8/30/95	2	2-60955 50721	Americraft	8:51 am	537
8/5/95	2	2-61030 010071	LaPorte	8:50 am	538
8/17/95	2	2-60043 049435	Ralston Purina	7:45 pm	539
8/28/95	2	1-61163 21104	Rohrer	11:18 pm	540

Arsenic, total = 2 mg/Kg
Barium, total = 14 mg/Kg
Cadmium, total = < 0.5 mg/Kg
Chromium, total = 2 mg/Kg
Lead, total = 3 mg/Kg
Mercury, total = < 0.5 mg/Kg
Selenium, total = < 5 mg/Kg Elvated detection limit due to sample matrix interference
Silver, total = < 0.5 mg/Kg
PCB Aroclors, total = < 0.5 mg/Kg

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug/Kg

project # 953032

September 1995

Date	Mac.	Customer order #	Customer	Time	Sample #
9/4/95	1	1-60999 010046	LaPorte	4:46 am	541
9/10/95	1	1-60999 010046	La Porte	6:22 am	542
9/26/95	2	2-61340 14707	Nordic Pkg	5:15 am	543
9/10/95	2	2-61227 2654 6-2	Boelter	10.52 am	544
9/17/95	2	2-61252 041831	Field Container	9:36 am	545
9/28/95	1	1-60044 049436	Ralston Purina	6:34 am	546
9/4/95	1	1-60999 010046	La Porte	6:23 am	547
9/20/95	1	1-60999 010046	La Porte	4:55 am	548
9/29/95	1	1-61371 010383	La Porte	3:20 pm	549
9/3/95	2	2-61198 041595	Field Container	11:11 pm	550
9/15/95	2	2-61249 5278	Graphic Pkg.	1:07 pm	551
9/24/95	2	2-6133 1470	Nordic Pkg	10:27 pm	552

Arsenic, total = 2 mg/kg
Barium, total = 12 mg/Kg
Cadmium, total = < 0.5 mg/Kg
chromium, total = 2 mg/Kg
Lead, total = 3 mg/Kg
Mercury, total = < 0.5 mg/Kg
Selenium, total = < 0.5 mg/Kg
Silver, total = < 0.5 mg/Kg
PCB Aroclors, total = NA

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug/Kg

project # 953305

October 1995

Date	Mac #	Customer order #	Customer	Time	sample
10/6/95	1	1-61345 17965	Western Container	1:45 pm	553
10/13/95	1	1-61201 010257	LaPorte	8:16 am	554
10/26/95	1	1-61421 042584	Field Container	12:19 am	555
10/3/95	2	2-61300 042069	" "	12:35 pm	556
10/13/95	2	2-61298 042066	" "	1:33 pm	557
10/20/95	2	2-61301 042070	" "	1:36 pm	558
10/8/95	1	1-61310 010338	LaPorte	12:33 am	559
10/21/95	1	1-59851 1910 1347	Fort Howard	7:04 pm	560
10/29/95	1	1-61522 017984	Western Container	11:33 am	561
10/8/95	2	2-60045 049437	Ralston Purina	6:26 pm	562
10/17/95	2	2-61291 042054	Field Container	6.25 am	563
10/21/95	2	2-61301 042070	Field Container	7.40 pm	564

Arsenic, total = 2 mg/kg
Barium, total = 13 mg/Kg
Cadmium, total = <0.5 mg/Kg
Chromium, total = 2 mg/Kg
Lead, total = 2 mg/kg
Mercury, total = <0.5 mg/Kg
Selenium, total = <1 mg/Kg
Silver, total = <0.5 mg/Kg
PCB Aroclors, total = Na

Elevated detection limit due to sample matrix interference

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1256, 1260 = <330 ug/kg

project 953665

November 1995

Date	Mach	Customer order #	Customer	Time	Sample #
11/8/95	1	1-59851 19100134	Fort Howard	2:20 am	565
11/13/95	1	1-6160 050	Shorewood Pkg.	11.37 pm	566
11/24/95	1	1-59852 019100134	Fort Howard	1.57 pm	567
11/4/95	2	2-61384 15202	RX Systems	4:25 pm	568
11/18/95	2	2-61491 043206	Field Container	10:00 pm	569
11/29/95	2	2-61576 033352	Southfield	10:16 am	570
11/3/95	1	1-61530 010543	LaPorte	6.50 pm	571
11/13/95	1	1-598 19100134	Fort Howard	5:00 am	572
11/18/95	1	1-61554 043413	Field Container	7.31 am	573
11/4/95	2	2-61384 15202	RX Systems	7:25 pm	574
11/10/95	2	2-60045 049437	Ralston Purina	8:55 am	575
11/28/95	2	2-60045 049437	" "	5:00 pm	576

Arsenic, total = 9 mg/kg
Barium, total = 15 mg/kg
Cadmium, total = <0.5 mg/kg
Chromium, total = 6 mg/kg
Lead, total = 5 mg/kg
Mercury, total = <0.5 mg/kg
Selenium, total = <0.5 mg/kg ← Elevated detection limit due to sample matrix interference
Silver, total = <0.5 mg/kg
PCB Aroclors, total = NA

PCB Aroclors, 1016, 1221, 1232, 1242, 1248, 1254, 1260 = <330 ug/kg

project # 960046

December 1995

Date	Mach.	Customer order #	Customer	Time	Sample #
12/5/95	1	161457 01042?	LaPorte	7:07am	577
12/14/95	1	1-61457 01042?	LaPorte	2:35 pm	578
12/27/95	1	1-61745 010722	LaPorte	2:58 pm	579
12/13/95	2	2-61407 010428	LaPorte	8:47am	580
12/19/95	2	2-61675 010718	LaPorte	3:14 am	581
12/28/95	2	2-61807 054877	Heinz	2.40 pm	582
12/5/95	1	1-61516 010521	LaPorte	12:38 am	583
12/15/95	1	1-61407 010428	LaPorte	11:47am	584
12/30/95	1	1-61581 027027	Marseilles	9:05 am	585
12/5/95	2	2-61588 010622	LaPorte	7.47 am	586
12/22/95	2	2-61751 044735	Field Container	11:41 am	587
12/31/95	2	2-61676 010719	LaPorte	8:39 am	588

Arsenic, total = < 1 mg/kg
Barium, total = 15 mg/kg
Cadmium, total = < 0.5 mg/kg
Chromium, total = 2 mg/kg
Lead, total = 2 mg/kg
Mercury, total = < 0.5 mg/kg
Selenium, total = < 0.5 mg/kg
Silver, total = < 0.5 mg/kg
PCB Aroclors, total NA

PCB
Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug/kg

project #
960316

January 1996

Date	Mach	Customer order #	Customer	Time	Sample #
1/2/96	1	1-61553 010566	LaPorte	7:43 am	589
1/16/96	1	1-61860 95003674	Fort Howard	12:22 am	590
1/26/96	1	1-61992 26949-1	Boelter	4:55 pm	591
1/7/96	2	2-61675 010718	LaPorte	8:25 pm	592
1/21/96	2	2-61916 010926	LaPorte	12:30 am	593
1/24/96	2	2-61916 010945	LaPorte	7:40 am	594
1/13/96	1	1-61933 17939	Beresford	8:33 pm	595
1/17/96	1	1-61745 010722	LaPorte	8:54 am	596
1/29/96	1	1-61923 027299	Marseilles	12:05 pm	597
1/12/96	2	2-61917 038647	Southfield Carton	4:30 pm	598
1/22/96	2	2-61704 053978	Ralston Purina	11:44 am	599
1/27/96	2	2-61968 012069-001	St. Joe	12:32 pm	600

Composite 596 - 600

Composite 589 - 595

Arsenic, total = 2 mg/kg
Barium, total = 15 mg/kg
Cadmium, total = < 0.5 mg/kg
Chromium, total = 2 mg/kg
→ Lead, total = 4 mg/kg
Mercury, total = < 0.5 mg/kg
Selenium, total = < 0.5 mg/kg
Silver, total = < 0.5 mg/kg
→ PCB Aroclors = NA

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug/kg

February 1996

project 960650

Date	Mach	Customer order #	Customer	Time	Sample #
2/4/96	1	1-62056 7976	Beck Carton	4:25 am	601
2/16/96	1	1-61852 010891	LaPorte	11:31 pm	602
2/25/96	1	1-62049 011112	LaPorte	10:26 am	603
2/2/96	2	2-61704 053978	Ralston Purina	12:05 am	604
2/11/96	2	2-62073 041970	Out Look	6:34 am	605
2/21/96	2	2-61704 053978	Ralston Purina	11:58 am	606
2/13/96	1	1-61851 010890	LaPorte	5:40 pm	607
2/18/96	1	1-61861 0195003674	Fort Howard	4:20 pm	608
2/26/96	1	1-61851 010890	LaPorte	6:13 am	609
2/7/96	2	2-61818 045111	Field Container	8:51 pm	610
2/26/96	2	2-62099 038774	Southfield Carton	6 26 pm	611
2/27/96	2	2-62187 038837	Southfield Carton	9:26 am	612

Arsenic, total = 2 mg/kg
Barium, total = 14 mg/kg
Cadmium, total = <0.5 mg/kg
Chromium, total = 2 mg/kg
Lead, total = 3 mg/kg
Mercury, total = <0.5 mg/kg
Selenium, total = <0.8 mg/kg
Silver, total = <0.5 mg/kg
PCB Aroclors, total = NA

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = <330 ug/kg

Project # 960836

March 1996

Date	Mach	Customer order #	Customer	Time	Sample #
3/3/96	1	1-62102 027454	Marseilles	3:04 am	613
3/18/96	1	1-61861 19500367	Fort Howard	1.16 am	614
3/26/96	1	1-62103 027455	Marseilles	12.37 am	615
3/2/96	2	2-62052 011115	La Porte	7.04 am	616
3/17/96	2	2-62169 046723	Field Container	9.34 am	617
3/26/96	2	2-62330 15070	Nordic Packaging	3.34 pm	618
3/9/96	1	1-62163 011262	La Porte	10:28 pm	619
3/20/96	1	1-62102 027454	Marseilles	8:02 am	620
3/29/96	1	1-61857 19500 3674	Fort Howard	9:00 am	621
3/12/96	2	2-62208 60215	Americraft	5:45 pm	622
3/23/96	2	2-62304 011391	La Porte	2'55 Am	623
3/29/96	2	2-62293 047361	Field Container	4:15 pm	624

Arsenic, total = 2 mg / kg
Barium, total = 13 mg / Kg
Cadmium, total = < 0.5 mg / Kg
Chromium, total = 2 mg / Kg
Lead, total = 1.0 mg / Kg
Mercury, total = < 0.5 mg/kg
Selenium, total = < 0.5 mg / Kg
Silver, total = < 0.5 mg / kg
PCB Aroclors, total = NA

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug / kg

project # 961092

April 1996

Date	Mach	Customer order #	Customer	Time	Sample #
4/2/96	1	1-62289 011369	La Porte	8:52 pm	625
4/15/96	1	1-62301 011388	La Porte	7:43 am	626
4/25/96	1	1-62297 011384	La Porte	3:15 am	627
4/3/96	2	2-61702 053975	Ralston Purina	11:05 am	628
4/21/96	2	2-62170 046724	Field Container	4:33 pm	629
4/20/96	2	2-62456 014480	Salisbury	7:45 am	630
4/4/96	1	1-62289 011360	La Porte	7:32 am	631
4/19/96	1	1-61857 95003674	Fort Howard	10:50 am	632
4/28/96	1	1-62297 011384	La Porte	3:31 pm	633
4/2/96	2	2-61702 053975	Ralston Purina	4:18 am	634
4/12/96	2	2-61703 053976	Ralston Purina	5:27 am	635
4/27/96	2	2-62428 015167	Nordic Packaging	11:50 pm	636

Arsenic, total = 1 mg/kg
Barium, total = 12 mg/kg
Cadmium, total = < 0.5 mg/kg
Chromium, total = 1 mg/kg
Lead, total = 2 mg/kg
Mercury, total = < 0.5 mg/kg
Selenium, total = < 0.5 mg/kg
Silver, total = < 0.5 mg/kg
PCB Aroclors, total = NA

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug/kg

project # 961414

May 1996

Date	Mach.	Customer order #	Customer	time	Sample #
05/02/96	1	1-61861 19500367	Fort Howard	4:22 pm	637
05/10/96	1	1-62398 0195003674	Fort Howard	8:37 am	638
05/25/96	1	1-62529 001980	Laborte	7:33 am	639
05/01/96	2	2-61704 053978	Ralston Purina	8:00 pm	640
05/07/96	2	2-62481 002072	Murfreesboro	2:08 am	641
05/15/96	2	2-62508 039138	Southfield	9:07 pm	642
05/08/96	1	1-62398 0195003674	Fort Howard	4:16 pm	643
05/15/96	1	1-62534	Salisbury	6:40 am	644
05/29/96	1	1-62475 027748	Marseilles	4:57 am	645
05/05/96	2	2-62476 011888	La Porte	4:22 pm	646
05/11/96	2	2-62457 014481	Salisbury	12:46 am	647
05/28/96	2	2-62528 011979	LaPorte	7:00 am	648

Arsenic, total = 1 mg/kg
Barium, total = 11 mg/kg
Cadmium, total = <0.5 mg/kg
Chromium, total = 2 mg/kg
Lead, total = 3 mg/kg
Mercury, total = <0.5 mg/kg
Selenium, total = <0.5 mg/kg
Silver, total = <0.5 mg/kg
PCB Aroclors, total = NA

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = <330 ug/kg

project # 961743

June 1996

Date	Mach.	Customer order #	Customer	Time	Sample #
6/9/96	1	1-62251 011384	LaPorte	7:41 am	649
6/25/96	1	1-62648 012150	LaPorte	10:14 pm	650
6/28/96	1	1950 ?	Fort Howard	9:42 am	651
6/5/96	2	2-61704 053978	Ralston Purina	2:00 pm	652
6/15/96	2	2-62528 011979	LaPorte	4:10 am	653
6/26/96	2	2-62624 015391	J.G. Clark	10:34 am	654
6/4/96	1	1-62297 011384	LaPorte	8:15 am	655
6/21/96	1	1-62593 012055	LaPorte	8:10 pm	656
6/27/96	1	1-62648 012150	LaPorte	8:18 am	657
6/1/96	2	2-62530 011981	LaPorte	10:34 am	658
6/19/96	2	2-62631 012120	LaPorte	10:47 am	659
6/30/96	2	2-62732 012264			660

Arsenic, total = 1 mg/kg
Barium, total = 21 mg/kg
Cadmium, total = <0.5 mg/kg
Chromium, total = 2 mg/kg
Lead, total = 2 mg/kg
Mercury, total = <0.5 mg/kg
Selenium, total = <0.5 mg/kg
Silver, total = <0.5 mg/kg
PCB Aroclors, total = NA

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug/kg

project # 962156

July 1996

Date	Mach	Customer # order	Customer	Time	Sample #
7/5/96	1	1-62710 012233	LaPorte	6:38 am	661
7/23/96	1	1-62798 002313	Murfreesboro	8:55 am	662
7/28/96	1	1-62776 012320	LaPorte	11:56 am	663
7/4/96	2	2-62565 015336	J.G. Clark	8:28 am	664
7/17/96	2	2-62729 012267	LaPorte	8:20 pm	665
7/27/96	2	2-62773 051268	Field Container	2:18 am	666
7/15/96	1	2-62682 050425	Field Container	9:26 pm	667
7/25/96	1	1-62643 012150	LaPorte	5:43 pm	668
7/31/96	1	1-62811 051299	Field Container	4:07 pm	669
7/11/96	2	2-62782 051282	Field Container	12:21 am	670
7/19/96	2	2-62499 048966	Field Container	8:40 am	671
7/30/96	2	2-62797 014783	Salisbury	5:57 am	672

Arsenic, total = 1 mg/kg
Barium, total = 11 mg/kg
Cadmium, total = < 0.5 mg/kg
Chromium, total = 2 mg/kg
Lead, total = 1 mg/kg
Mercury, total = < 0.5 mg/kg
Selenium, total = < 0.5 mg/kg
Silver, total = < 0.5 mg/kg
PCB Aroclors, total = NA

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug/kg

project # 962467
962681

August 1996

Date	Mach	Customer order #	Customer	Time	sample #
08/01/96	1	1-62811 051299	Field Container	7:02 am	679
8/18/96	1	1-62908 012439	LaPorte	8:57 pm	680
8/26/96	1	1-62998 002441	Murfreesboro	6:18 am	681
8/6/96	2	2-62774 051269	Field Container	12:25 pm	682
8/12/96	2	2-61043 037902	Southfield Container	10:10 am	683
8/27/96	2	2-60955 50721	Americraft	2:04 pm	684
8/2/96	1	1-62799 027994	Marseilles	9:00 pm	685
8/5/96	1	1-62799 027994	Marseilles	12:18 am	686
8/10/96	1	1-62876 002348	Murfreesboro	6:04 am	687
8/28/96	2	2-63010 010801	Heinz	4:53 am	688
8/20/96	2	2-62999 12599	LaPorte	7:06 am	689
8/10/96	2	2-62965 15491	Nordic Packaging	11:03 am	690

Arsenic, total = 1.6 mg/kg
Barium, total = 11 mg/kg
Cadmium, total = <0.5 mg/kg
Chromium, total = 1 mg/kg
Lead, total = 2 mg/kg
Mercury, total = <0.5 mg/kg
Selenium, total = <0.5 mg/kg
Silver, total = <0.5 mg/kg
PCB Aroclors, total = NA

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = <330 ug/kg

project # 962611

September 1996

Date	Mach	Customer order #	Customer	Time	Sample
9/12/96	1	1-63032 012658	LaPorte	8:37 am	691
9/15/96	1	1-62801 027996	Marseilles	10:20 am	692
9/22/96	1	1-63032 12658	LaPorte	10:17 am	693
9/4/96	2	2-63107 62432	Seaboard	6:10 am	694
9/16/96	2	2-63031 012601	LaPorte	5:53 pm	695
9/29/96	2	2-62574 039274	Southfield Carton	7:13 am	696
9/25/96	1	1-62981 028138	Marseilles	10:50 am	697
9/23/96	1	1-62981 028138	Marseilles	6:02 am	698
9/29/96	1	1-63032 012658	LaPorte	12:17 pm	699
9/1/96	2	2-62573 039273	Southfield Carton	12:44 pm	700
9/5/96	2	2-63031 012601	LaPorte	8:55 pm	701
9/20/96	2	2-61704 053978	Ralston Purina	1:15 am	702

Arsenic, total = < 1 mg/kg
Barium, total = 12 mg/kg
Cadmium, total = < 0.5 mg/kg
Chromium, total = 2 mg/kg
Lead, total = 2 mg/kg
Mercury, total = < 0.5 mg/kg
Selenium, total = < 0.5 mg/kg
Silver, total = < 0.5 mg/kg
PCB Aroclors, total = NA

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug/kg

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Project 963142

October 1996

Date	Mach	Customer order #	Customer	time	Sample
10/8/96	1	1-61860 19503674	Fort Howard	7:17 pm	703
10/12/96	1	1-63323 —	Murfreesboro	4:54 pm	704
10/24/96	1	1-63402 054059	Field Container	4:15 pm	705
10/31/96	2	2-63413 8329	Beck Carton	5:35am	706
10/17/96	2	2-63276 012979	La Porte	10:29am	707
10/5/96	2	2-63273 012976	LaPorte	6:29am	708
10/5/96	1	1-61861 19503674	Fort Howard	9:29pm	709
10/15/96	1	1-63280 053595	Field Container	7.01 am	710
10/29/96	1	1-63352 013078	La Porte	6:23 pm	711
10/22/96	2	2-63073 016287	J.G. Clark	7:48 am	712
10/13/96	2	2-63072 016286	J.G. Clark	5.20 pm	713
10/3/96	2	2-63072 053978	J.G. Clark	1:01 am	714

Arsenic, total = 2 mg/kg
Barium, total = 12 mg/kg
Cadmium, total = < 0.5 mg/kg
Chromium, total = 2 mg/kg
Lead, total = 3 mg/kg
Mercury, total = < 0.5 mg/kg
Selenium, total = < 0.5 mg/kg
Silver, total = < 0.5 mg/kg
PCB Aroclors, total = NA

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug/kg

Project # 963456

November 1996

Date	Mach.	Customer order #	Customer	time	Sample #
11/1/96	1	1-63390 053893	Field Container	2:20pm	715
11/8/96	1	1-63269 028383	Marseilles	5.43 pm	716
11/17/96	1	1-63274 012977	La Porte	4:40 am	717
11/6/96	2	2-63487 013272	La Porte	3:09 pm	718
11/21/96	2	2-63547 040134	Southfield	10:14 am	719
11/28/96	2	2-63568 054902	Field Container	7:28 am	720
11/4/96	1	1-63468 18981	Beresford Box	3.20 pm	721
11/12/96	1	1-63526 013341	La Porte	4:03 pm	722
11/25/96	1	1-63621 19078	Beresford Box	3:05pm	723
11/1/96	2	2-63386 013129	La Porte	9:49 am	724
11/11/96	2	2-63509 19049	Beresford Box	8:57am	725
11/25/96	2	2-63529 013344	La Porte	7:30 am	726

Arsenic, total = 1 mg/kg
Barium, total = 14 mg/kg
Cadmium, total = < 0.5 mg/kg
Chromium, total = 2 mg/kg
Lead, total = 4 mg/kg
Mercury, total = < 0.5 mg/kg
Selenium, total = < 0.5 mg/kg
Silver, total = < 0.5 mg/kg
PCB Aroclors, total = NA

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug/kg

project # 970079

December 1996

Date	Mach.	Customer order #	Customer	time	Sample
12/11/96	1	1-63444 013204	La Porte	1:52 am	727
12/19/96	1	1-63362 013080	La Porte	5:48 pm	728
12/31/96	1	1-63644 055438	Field Container	8:26 am	729
12/29/96	2	2-63700 015468	Salisbury	9:04 pm	730
12/15/96	2	2-63637 011273	Ralston Purina	12:34 pm	731
12/6/96	2	2-63653 017188	J. G. Clark	6:50 pm	732
12/5/96	1	1-6366 —	J. G. Clark	9:39 am	733
12/14/96	1	1-63652 017187	J. G. Clark	8:30 am	734
12/21/96	1	1-63330 013045	La Porte	3:12 am	735
12/31/96	2	2-63707 002943	Murfreesboro	7:46 am	736
12/22/96	2	2-63765 011415	Ralston Purina	11:10 pm	737
12/8/96	2	2-63528 013343	La Porte	5:19 pm	738

Arsenic, total = 2 mg/kg
Barium, total = 15 mg/kg
Cadmium, total = < 0.5 mg/kg
Chromium, total = 2 mg/kg
Lead, total = 3 mg/kg
Mercury, total = < 0.5 mg/kg
Selenium, total = < 0.5 mg/kg
Silver, total = < 0.5 mg/kg
PCB Aroclors, total = NA

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug/kg

project # 970347

January 1997

Date	Mach.	Customer order #	Customer	time	Sample #
1/29/97	1	1-63917 19242	Beresford Box	12:16 am	739
1/14/97	1	1-63525 028558	Marseilles	—	740
1/3/97	1	1-63531 013346	La Porte	6.07 am	741
1/31/97	2	2-63783 013647	La Porte	1:47 am	742
1/20/97	2	2-63683 013555	La Porte	5:52 am	743
1/3/97	2	2-63717 055765	Field Container	1:30 pm	744
1/31/97	1	1-63684 013556	La Porte	2:22 pm	745
1/17/97	1	1-63928 97000178	Fort Howard	3:29 pm	746
1/4/97	1	1-63531 013346	La Porte	7:21 am	747
1/26/97	2	2-63727 011389	Ralston Purina	4:22 am	748
1/16/97	2	2-63840 056371	Field Container	12.25 pm	759
1/2/97	2	2-63716 44404	Out look	8:35 pm	750

Arsenic, total = < 1 mg / kg
Barium, total = 15 mg / kg
Cadmium, total = < 0.5 mg / kg
Chromium, total = 3 mg / kg
Lead, total = 1 mg / kg
Mercury, total = < 0.5 mg / kg
Selenium, total = < 0.5 mg / kg
Silver, total = < 0.5 mg / kg
PCB Aroclors, total = NA

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug / kg

project # 970657

February 1997

Date	Mach	Customer order #	Customer	time	sample #
2/15/97	1	1-63684 013556	LaPorte	1:54 am	751
2/21/97	1	1-63527 013342	LaPorte	3.23 pm	752
2/28/97	1	1-63929 19700178	Fort Howard	5:31 pm	753
2/8/97	2		Stock A	10:10 am	754
2/20/97	2	2-63861 011460	Ralston Purina	10:15 am	755
2/28/97	2	2-64069 057583	Field Container	8.28 pm	756
2/11/97	1	1-64023 013882	LaPorte	12:53 am	757
2/18/97	1	1-63525 028558	Marseilles	5:55 am	758
2/24/97	1	1-64054 19355	Beresford Bof	10:39 am	759
2/1/97	2	2-63929 97000178	Fort Howard	7:00 am	760
2/16/97	2	2-64045 057490	Field Container	4:32 am	761
2/26/97	2	2-63886 013727	LaPorte	8:19 am	762

Arsenic, total = < 1 mg/kg
Barium, total = 11 mg/kg
Cadmium, total = <0.5 mg/kg
Chromium, total = 2 mg/kg
Lead, total = < 1 mg/kg
Mercury, total = < 0.5 mg/kg
Selenium, total = < 0.5 mg/kg
Silver, total = < 0.5 mg/kg
PCB Aroclors, total = NA

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = <330 ng/kg

project # 971032

March 1997

Date	Mach	Customer order #	Customer	time	Sample #
3/1/97	1	1-63684 013556	La Porte	3:22 pm	763
3/11/97	1	1-64060 011586	Ralston Purina	8:14 pm	764
3/29/97	1	013785	La Porte	7:05 pm	765
3/8/97	2	2-64056 057494	Field Container	9:54 pm	766
3/12/97	2	2-64071 057585	Field Container	6:35 pm	767
3/26/97	2	2-63928 19700178	Fort Howard	7:30 am	768
3/5/97	1	1-63883 013724	La Porte	5:26 am	769
3/18/97	1	1-63883 013724	La Porte	2:30 am	770
3/26/97	1	1-64064 011590	Ralston Purina	4:28 am	771
3/31/97	2	013944	La Porte	3:07 pm	772
3/19/97	2	2-64252 7699	Gold Rich	6:23 pm	773
3/10/97	2	2-63809 055979	Field Container	4:12 am	774

Arsenic, total = 2 mg/kg
Barium, total = 13 mg/kg
Cadmium, total = <0.5 mg/kg
Chromium, total = 2 mg/kg
Lead, total = 2 mg/kg
Mercury, total = <0.5 mg/kg
Selenium, total = <0.5 mg/kg
Silver, total = <0.5 mg/kg
PCB Aroclors, total = NA

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = <330 ug/kg

project # 971489

April 1997

Date	Mach	Customer order #	Customer	time	Sample #
4/7/97	1	19700178	Fort Howard	10:30 am	775
4/23/97	1	013946	LaPorte	6:51 am	776
4/30/97	1	060411	Field Container	5:25 am	777
4/30/97	2	013989	LaPorte	2:30 am	780
4/7/97	2	2-64293 7080-1	Seaboard	7:33 pm	778
4/20/97	2	97000178	Fort Howard	5:17pm	779
4/2/97	1	28312-2	Boelter	6:41 pm	781
4/17/97	1	057844	Field Container	6:12 pm	782
4/27/97	1	19540	Beresford Box	3:01 am	783
4/3/97	2	05884	Field Container	8:14 pm	784
4/16/97	2	013944	LaPorte	2:05 pm	785
4/27/97	2	059208	Field Container	10:14 am	786

Arsenic, total = < 1 mg/kg
Barium, total = 9 mg/kg
Cadmium, total = < 0.5 mg/kg
Chromium, total = 1 mg/kg
Lead, total = 2 mg/kg
Mercury, total = < 0.5 mg/kg
Selenium, total = < 0.5 mg/kg
Silver, total = < 0.5 mg/kg
PCB Aroclors, total = NA

PCB Aroclors, total 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug/kg

Project #

May 1997

Date	Mach	Customer order #	Customer	time	Sample #
5/8/97	1	013994	LaPorte	6:47 pm	787
5/21/97	1	97000178	Fort Howard	7:30 am	788
5/30/97	1	97000178	Fort Howard	7:11 am	789
5/8/97	2	013978	LaPorte	11:06 pm	790
5/18/97	2	013978	LaPorte	8:28 am	791
5/31/97	2	01398	LaPorte	12:20 pm	792
5/4/97	1	003343	Murfreesboro	12:42 am	793
5/17/97	1	—	Stock B	3:45 am	794
5/23/97	1	1965	Beresford Box	9:18 am	795
5/5/97	2	013989	LaPorte	5:51 am	796
5/9/97	2	013978	LaPorte	12:44 pm	797
5/25/97	2	011872	General Mills	12:47 am	798

Arsenic, total = < 1 mg/kg
Barium, total = 13 mg/kg
Cadmium, total = < 0.5 mg/kg
Chromium, total = 2 mg/kg
Lead, total = 2 mg/kg
Mercury, total = < 0.5 mg/kg
Selenium, total = < 1.6 mg/kg
Silver, total = < 0.5 mg/kg
PCB Aroclors = NA

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260

< 330 ug/Kg

project # 972314

June 1997

Date	Mach	Customer order #	Customer	time	Sample #
6/7/97	1	057819	Field Container	10:00am	799
6/18/97	1	013965	La Porte	11:02 am	800
6/25/97	1	062231	Field Container	6:22 am	801
6/11/97	2	061617	Field Container	3:45 am	802
6/17/97	2	020003	LaPorte	3:01 pm	803
6/21/97	2	013978	La Porte	5:50 am	804
6/2/97	1	060554	?	4:00	805
6/12/97	1	057819	Field Container	3:40 pm	806
6/20/97	1	19732	Beresford	10:34 am	807
6/7/97	2	40613	Malnove	5:41 am	808
6/14/97	2	40559	Malnove	6:50 pm	809
6/23/97	2	013978	LaPorte	10:56 am	810

Arsenic, total = < 1 mg/kg
Barium, total = 10 mg/kg
Cadmium, total = < 0.5 mg/kg
Chromium, total = 2 mg/kg
Lead, total = < 1 mg/kg
Mercury, total = < 0.5 mg/kg
Selenium, total = < 0.5 mg/kg
Silver, total = < 0.5 mg/kg
PCB Aroclors, total = NA

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ng/kg

project 972748

July 1997

Date	Mach	Customer order #	Customer	time	Sample #
9/5/97	1	003576	Murfreesboro	6:42	811
7/17/97	1	28697-1	Boelter	4:08 am	812
7/28/97	1	41002	Malnove	7:21 am	813
7/4/97	2	019068	J. G. Clark	12:00 pm	814
7/13/97	2	063062	Field Container	12:53 am	815
7/25/97	2	97000178	Fort Howard	11:19 am	816
7/1/97	1	062233	Field Container	1:06 pm	817
7/12/97	1	30402	Americraft Carton	3:59 am	818
7/24/97	1	020014	LaPorte	3:18	819
7/6/97	2	020006	LaPorte	8:53	820
7/20/97	2	020023	LaPorte	8:08 am	821
7/30/97	2	014400	Milwaukee	7:26 am	822

Arsenic, total = <1 mg/kg
Barium, total = 13 mg/kg
Cadmium, total = <0.5 mg/kg
Chromium, total = 2 mg/kg
Lead, total = 3 mg/kg
Mercury, total = <0.5 mg/kg
Selenium, total = <0.5 mg/kg
Silver, total = <0.5 mg/kg
PCB Aroclors, total = NA

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug/kg

project # 973136

August 1997

Date	Mach	customer # order	Customer	time	Sample #
8/9/97	1	063110	Field Container	2:53 pm	823
8/24/97	1	063466	Field Container	3:58 pm	824
8/31/97	1	19964	Beresford	5:18 am	825
8/3/97	2	012256	Ralston Purina	1:38 am	826
8/15/97	2	97000178	Fort Howard	5:44 am	827
8/22/97	2	020024	La Porte	8:34 pm	828
8/5/97	1	97000178	Fort Howard	8:36 am	829
8/16/97	1	97000178	Fort Howard	5:43 am	830
8/27/97	1	41039	Malnove	6:31 pm	831
8/10/97	2	012017	Heinz	11:35 pm	832
8/19/97	2	97000178	Fort Howard	7:21 pm	833
8/29/97	2	41138	Malnove	9:35 am	834

* Arsenic, total = < 2 mg/kg *
Barium, total = 12 mg/kg
Cadmium, total = < 0.5 mg/kg
chrominm, total = 2 mg/kg
Lead, total = 2 mg/kg
Mercury, total = < 0.5 mg/kg
* Selenium, total = < 5 mg/kg *
Silver, total = < 0.5 mg/kg
PCB Aroclors, total = NA

* Elevated detection limit due to sample matrix interference *

* see side note matrix interference

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug/kg

project # 973598

September 1997

Date	Mach	Customer order #	Customer	time	Sample
9/7/97	1	020014	LaPorte	7:38 pm	835
9/22/97	1	064325	Field Container	9:47 am	836
9/30/97	1	97000178	Fort Howard	8:49 AM	837
9/6/97	2	28846-2	Boelter	6:08 pm	838
9/15/97	2	020024	LaPorte	2:09 pm	839
9/28/97	2	019021	J.G. Clark	7:19 AM	840
9/3/97	1	020051	La Porte	6:39 pm	841
9/15/97	1	020035	La Porte	4:06 pm	842
9/26/97	1	28914-5	Boelter	7.42 am	843
9/1/97	2	020027	La Porte	3:38 pm	844
9/16/97	2	020024	La Porte	6:42 am	845
9/24/97	2	019664	J.G. Clark	8:57 pm	846

Arsenic, total = < 1 mg/kg
Barium, total = 13 mg/kg
Cadmium, total = < 0.5 mg/kg
Chrominm, total = 2 mg/kg
Lead, total = 2 mg/kg
Mercury, total = < 0.5 mg/kg
Selenium, total = < 0.5 mg/kg
Silver, total = < 0.5 mg/kg
PCB Aroclors, total = NA

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug/kg

October 1997 project # 974090

Date	Mach	Customer order #	Customer	time	sample #
10/3/97	1	41616	Malnove	6:29 am	847
10/17/97	1	020094	La Porte	12:24 am	848
10/30/97	1	—	Milwaukee	12:57 pm	849
10/4/97	2	020076	La Porte	7:10 pm	850
10/20/97	2	020068	La Porte	9:28 pm	851
10/30/97	2	012623	MCC	5:46 am	852
10/3/97	1	014704	Milwaukee	9:30 am	853
10/10/97	1	014548	Milwaukee	7:06 pm	854
10/24/97	1	065480	Field Container	11:48 pm	855
10/1/97	2	019021	J.G. Clark	8:28 pm	856
10/8/97	2	041170	South Field	4:45 pm	857
10/26/97	2	020076	La Porte	7:38 am	858

Arsenic, total = < 1 mg/kg
Barium, total = 11 mg/kg
Cadmium, total = < 0.5 mg/kg
Chromium, total = 2 mg/kg
Lead, total = 3 mg/kg
Mercury, total = < 0.5 mg/kg
Selenium, total = < 0.5 mg/kg
Silver, total = < 0.5 mg/kg
PCB Aroclors, total = NA

PCB Arclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug/kg

project #974358

November 1997

Date	Mach	Customer order #	Customer	time	Sample #
11/1/97	1	97003129	Fort Howard	3:00pm	859
11/7/97	1	20323	Western Cont.	9:13pm	860
11/21/97	1	91703129	Fort Howard	—	861
11/5/97	2	041648	Southfield	1:46am	862
11/17/97	2	66596	Field Container	10:50am	863
11/24/97	2	041896	Southfield	9:37am	864
11/4/97	1	—	Precision Pack	7:01pm	865
11/11/97	1	20318	Western Cont.	2:44pm	866
11/30/97	1	020302	Milwaukee	5:36pm	867
11/8/97	2	020118	La Porte	10:00am	868
11/20/97	2	020103	La Porte	—	869
11/29/97	2	041643	Southfield	2:40pm	870

Arsenic, total = < 1 mg/kg
Barium, total = 11 mg/kg
Cadmium, total = < 0.5 mg/kg
Chromium, total = 2 mg/kg
Lead, total = 2 mg/kg
Mercury, total = < 0.5 mg/kg
Selenium, total = < 0.5 mg/kg
Silver, total = < 0.5 mg/kg
PCB Aroclors, total = NA

PCB Aroclor: 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug/kg

December 1997 project # 980071

Date	Mach	Customer order #	Customer	time	Sample #
12/2/97	1	020121	Laporte	1 44pm	871
12/13/97	1	020108	La Porte	12. 18 pm	872
12/27/97	1	97003129	Fort Howard	7:57am	873
12/2/97	2	020112	La Porte	2:52 pm	874
12/11/97	2	065489	Field Container	10 15am	875
12/31/97	2	020121	La Porte	9.08 pm	876
12/8/97	1	012721	Heinz	2:17pm	877
12/13/97	1	020121	La Porte	9:30 pm	878
12/31/97	1	004246	Murfreesboro	5.39 am	879
12/7/97	2	97003129	Fort Howard	6:13am	880
12/19/97	2	020368	Milwaukee	3:50am	881
12/28/97	2	020121	La Porte	7:22 am	882

Arsenic, total = 1.6 mg/kg
Barium, total = 16 mg/kg
Cadmium, total = <0.5 mg/kg
Chromium, total = 2 mg/kg
Lead, total = 1 mg/kg
Mercury, total = <0.1 mg/kg
* Selenium, total = <1 mg/kg *Elevated detection limit due to sample matrix interference
Silver, total = <0.5 mg/kg
PCB Aroclors, total = NA

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = <330 ug/kg

January 1998 Project # 980390

Date	Mach.	Customer order #	Customer	time	Sample #
1/5/98	1	97003129	Fort Howard	9:05pm	883
1/14/98	1	68403	Field Container	5:21pm	884
1/31/98	1	20167	La Porte	10:50am	885
1/6/98	2	20166	La Porte	5:01 pm	886
1/14/98	2	068012	Field Container	11.00pm	887
1/26/98	2	020590	Milwaukee	7:15 am	888
1/2/98	1	67634	Field Container	9:06 am	889
1/11/98	1	68019	Field Container	11:32 pm	890
1/24/98	1	020142	LaPorte	6:58 am	891
2/2/98	2	20163	LaPorte	9:00 pm	892
2/11/98	2	020166	LaPorte	12:43am	893
2/22/98	2	020171	LaPorte	7:22am	894

Arsenic, total = < 1 mg/kg
Barium, total = 13 mg/kg
Cadmium, total = <0.5 mg/kg
Chromium, total = 2 mg/kg
Lead, total = 1 mg/kg
Mercury, total = < 0.5 mg/kg
Selenium, total = < 0.5 mg/kg
Silver, total = < 0.5 mg/kg
PCB Aroclors, total = NA

PCB Aroclor 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug/kg

project # 980731

February 1998

Date	Mach.	Customer order #	Customer	time	Sample #
2/1/98	1	069762	Field Container	12:40pm	895
2/8/98	1	020648	Milwaukee	1:10 am	896
2/15/98	1	020149	La Porte	7:28 am	897
2/1/98	2	020154	La Porte	7:13 pm	898
2/12/98	2	065468	Field Container	6:33am	899
2/22/98	2	069797	Field Container	5:30 am	900
2/4/98	1	020180	La Porte	10.23 am	901
2/13/98	1	020178	La Porte	3:36 am	902
2/15/98	1	020178	La Porte	7:28 am	903
2/5/98	2	020167	La Porte	1:51 pm	904
2/17/98	2	069830	Field Container	1:49 pm	905
2/27/98	2	?	?	5:45 pm	906

Arsenic, total = < 1 mg/kg
Barium, total = 13 mg/kg
Cadmium, total = < 0.5 mg/kg
Chromium, total = 2 mg/kg
Lead, total = 2 mg/kg
Mercury, total = < 0.5 mg/kg
Selenium, total = < 0.5 mg/kg
Silver, total = < 0.5 mg/kg
PCB Aroclors = NA

PCB Aroclor 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug/kg

March 1998

Project # 981406

Date	Mach	Customer Reel #	time	Sample #
3/13/98	1	102/103	NA	907
3/18/98	1	258/259	7:22 pm	908
3/22/98	1	403	9:22 am	909
3/12/98	2	268	5:40 am	910
3/23/98	2	612/613	12:35 am	911
3/30/98	2	822/823	8:12 am	912
3/13/98	1	J.G. Clark 103/104	6:05 am	913
3/17/98	1	227/228	9:35 am	914
3/26/98	1	571/572	2:30 am	915
3/4/98	2	95/96	NA	916
3/16/98	2	364/365	8:40 am	917
3/26/98	2	729/730	1:05 pm	918

Arsenic, total = < 1 mg/kg
Barium, total = 11 mg/kg
Cadmium, total = < 0.5 mg/kg
Chromium, total = 2 mg/kg
Lead, total = 2 mg/kg
Mercury, total = < 0.5 mg/kg
Selenium, total = < 1 mg/kg
Silver, total = < 0.5 mg/kg
PCB Aroclors, total = NA mg/kg

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug/kg

April 1998 project #- 981562

Date	Mach	Customer Reel #	time	Sample #
4/5/98	1	170/171	8:32 am	919
4/14/98	1	558/559	4:52 am	920
4/27/98	1	1002/1003	3:04 am	921
4/2/98	2	52/53	–	922
4/11/98	2	310/311	5:27	923
4/20/98	2	595/596	12:56 am	924
4/10/98	1	399/400	–	925
4/19/98	1	739/740	3:28 am	926
4/25/98	1	915/916	5:43 am	927
4/7/98	2	194/195	–	928
4/16/98	2	464/465	–	929
4/27/98	2	761/762	4:23	930

Arsenic, total = < 1 mg/kg
Barium, total = 12 mg/kg
Cadmium, total = < 0.5 mg/kg
Chromium, total = 2 mg/kg
Lead, total = 3 mg/kg
Mercury, total = < 0.5 mg/kg
Selenium, total = < 1 mg/kg
Silver, total = < 0.5 mg/kg
PCB Aroclor total = NA

elevated detection due to matrix sample interference

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug/kg

May 1998 project 982057

Date	Mach	Customer Reel #	time	Sample #
5/1/98	1	31/32	11:14 pm	931
5/10/98	1	343/344	–	932
5/21/98	1	793/794	8:20 pm	933
5/7/98	2	164/165	7:39 am	934
5/16/98	2	445/446	5:33	935
5/25/98	2	676/677	6:45 am	936
5/7/98	1	199/200	2:54 am	937
5/17/98	1	634/635	1:15 pm	938
5/25/98	1	897/898	6:45 am	939
5/1/98	2	20/21	9:34	940
5/12/98	2	313/314	7:00 am	941
5/20/98	2	550/551	7:26	942

Arsenic, total = <2 mg/kg Elevated detection limit due to sample matrix interference
Barium, total = 12 mg/kg
Cadmium, total = <0.5 mg/kg
Chromium, total = 2 mg/kg
Lead, total = 1.1 mg/kg
Mercury, total = <0.5 mg/kg
Selenium, total = <1 mg/kg Elevated detection limit due to sample matrix interference
Silver, total = <0.5 mg/kg
PCB Aroclors total = NA

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = <330 ug/kg

June 1998 Project 982589

Date	Mach	Customer Reel #	time	Sample #
6/1/98	1	3/4	7:14am	943
6/9/98	1	334/335	4:38 am	944
6/13/98	1	516/516	6.00 am	945
6/19/98	2	633/634	7:57 am	946
6/23/98	2	782/783	–	947
6/28/98	2	957/958	–	948
6/16/98	1	647/648	–	949
6/24/98	1	819/820	1:06 pm	950
6/29/98	1	1014/1015	–	951
6/7/98	2	248/249	–	952
6/10/98	2	340/341	–	953
6/14/98	2	468/469	7:39pm	954

Arsenic, total = < 1 mg/kg
Barium, total = 12 mg/kg
Cadmium, total = < 0.5 mg/kg
Chromium, total = 3 mg/kg
Lead, total = 2 mg/kg
Mercury, total = < 0.5 mg/kg
Selenium, total = < 1 mg/kg
Silver, total = < 0.5 mg/kg

Elevated detection limit due matrix interference

PCB Aroclors total = NA

PCB Aroclors, 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug/kg

project # 983622

August 1998

Date	Mach.	Customer reel #	time	Sample #
8/2/98	1	75/76	–	967
–	1	184/185	2:48	968
8/10/98	1	354	7:12 am	969
8/16/98	2	475/476	1:51 pm	970
8/20/98	2	602/603	10:04 pm	971
8/22/98	2	666/667	12:39 am	972
8/98	1	–	11:36 pm	973
8/23/98	1	937/938	3:12 pm	974
8/28/98	1	1196/1197	2:06 pm	975
8/2/98	2	28/29	1:05 pm	976
8/8/98	2	147/148	10:37 am	977
8/13/98	2	380/381	2:24 pm	978

Arsenic, total = < 1 mg / kg
Barium, total = 12 mg / kg
Cadmium, total = < 0.5 mg / kg
Chromium, total = 3 mg / kg
Lead, total = 1.9 mg / kg
Mercury, total = < 0.5 mg / kg
Selenium, total = < 0.5 mg / kg
Silver, total = < 0.5 mg / kg
PCB Aroclors, total = NA

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ng / kg

Project # 984158

September 1998

Date	mach	Customer reel #	time	Sample #
9/2/98	1	91/92	5:12 am	979
9/13/98	1	614/615	4:38 pm	980
9/29/98	1	1278/1279	8:27	981
9/7/98	2	207/208	-	982
9/17/98	2	528/529	—	983
9/28/98	2	828/829	3:40	984
9/6/98	1	292/293	—	985
9/20/98	1	917	5:10pm	986
9/30/98	1	1309/1310	12:15pm	987
9/1/98	2	30/31	2:11am	988
9/14/98	2	427/428	4:13am	989
9/23/98	2	673/674	12:43um	990

Arsenic, total	=	<1	mg/Kg
Barium, total	=	14	mg/Kg
cadmium, total	=	<0.5	mg/Kg
chromium, total	=	2	mg/Kg
Lead, total	=	3	mg/Kg
Mercury, total	=	<0.5	mg/Kg
Selenium, total	=	<0.5	mg/Kg
Silver, total	=	<0.5	mg/Kg
PCB Aroclors, total	=	NA	

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ng/Kg

Project #985057

October 1998

Date	Mach	Customer reel #	time	Sample
10/5/98	1	210/211	-	991
10/16/98	1	678/679	2:20pm	992
10/31/98	1	1250/1251	6:33	993
10/2/98	2	38/39	11:11pm	994
10/19/98	2	531/532	2:03pm	995
10/28/98	2	797	7.08am	996
10/1/98	1	3/4	7.31 am	997
10/8/98	1	333/334	7.50 am	998
10/25/98	1	1029/1030	11:31 am	999
10/7/98	2	178/179	8:49 pm	1000
10/23/98	2	656/656	3:16 pm	1001
10/31/98	2	899/900	11:07 am	1002

Arsenic, total	-	< 1	mg/Kg	
Barium, total	-	12	mg/Kg	
cadmium, total	-	< 0.5	mg/Kg	
chromium, total	-	2	mg/Kg	
Lead, total	-	2	mg/Kg	
Mercury, total	-	< 0.1	mg/Kg	
Selenium, total	-	< 0.5	mg/Kg	
Silver, total	-	< 0.5	mg/Kg	
PCB Aroclors, total	-	NA	mg/Kg	

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 < 330 ug/Kg

project # 985061

November 1998

Date	Mach.	Customer #	time	Sample
11/2/98	1	69/70		1003
11/23/98	1	933/934	9:52 am	1004
11/30/98	1	1265	12:16 pm	1005
11/3/98	2	87/88	2:25 am	1006
11/17/98	2	468/469	5:13 am	1007
11/26/98	2	691/692	6:54 pm	1008
11/10/98	1	404/405	7:43 am	1009
11/24/98	1	1002/1003	—	1010
11/28/98	1	1195/1196	4:05 am	1011
11/11/98	2	307/308	12:40 am	1012
11/22/98	2	574/575	3:44 pm	1013
11/30/98	2	799/800	7:00 am	1014

Arsenic, total	-	< 1	mg/Kg
Barium, total	-	11	mg/Kg
Cadmium, total	-	< 0.5	mg/Kg
Chromium, total	-	2	mg/Kg
Lead, total	-	3	mg/Kg
Mercury, total	-	< 0.1	mg/Kg
Selenium, total	-	< 0.5	mg/Kg
Silver, total	-	< 0.5	mg/Kg
PCB Aroclors, total	=	NA	

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug/Kg

Project #

December 1998

Date	Mach	Customer reel #	time	Sample #
12/1/98	1	11/12	3.14	1015
12/12/98	1	504/505	—	1016
12/28/98	1	999/1000	10:08 am	1017
12/1/98	2	21/22	7:17	1018
12/12/98	2	346/347	8:47	1019
12/23/98	2	673/674	10:41 am	1020
12/6/98	1	259/260	8:29 pm	1021
12/19/98	1	795/796	5:56	1022
12/31/98	1	1148/1149	8:13 am	1023
12/5/98	2	138/139	7:44 am	1024
12/15/98	2	434/435	11:00 am	1025
12/31/98	2	804/805	6:07 am	1026

Arsenic, total = < 0.5 mg/kg
Barium, total = 13 mg/kg
Cadmium, total = < 0.5 mg/kg
Chromium, total = 2 mg/kg
Lead, total = 2 mg/kg
Mercury, total = < 0.5 mg/kg
Selenium, total = < 0.5 mg/kg
Silver, total = < 0.5 mg/kg
PCB Aroclors, total = NA

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug/kg

Project #

January 1999

Date	Mach.	Customer reel #	time	Sample #
1/2/99	1	49/50	6:10 am	1027
1/15/99	1	606/607	7:06 am	1028
1/31/99	1	1332/1333	3:52 pm	1029
1/6/99	2	106/107	7:38 am	1030
1/16/99	2	375/376	—	1031
1/27/99	2	691/692	10:31 pm	1032
1/6/99	1	227/228	9:06 am	1033
1/18/99	1	769/770	—	1034
1/27/99	1	1125/1126	2:43 pm	1035
1/1/99	1	24/25	12:04 am	1036
1/17/99	1	397/398	—	1037
1/31/99	1	806/807	—	1038

Arsenic, total = < 1 mg/kg
Barium, total = 13 mg/kg
Cadmium, total = < 0.5 mg/kg
Chromium, total = 2 mg/kg
Lead, total = 2 mg/kg
Mercury, total = < 0.5 mg/kg
Selenium, total = < 0.5 mg/kg
Silver, total = < 0.5 mg/kg
PCB Aroclors, total = NA

PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260 = < 330 ug/kg

FEB. 1999

DATE	MACH.	Customer REEL #	time	Sample #
				1039
				1040
				1041
				1042
				1043
				1044
				1045
				1046
				1047
				1048
				1049
				1050

24

Columbia Analytical Services INC.
An Employee Owned Company

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST

8540 Baycenter Rd. • Jacksonville, FL 32256 • (904) 739-2277 • 800-695-7222 x 06 • FAX (904) 739-2011

DATE 04/03/2003 PAGE 1 OF 1

PROJECT NAME Protocol
PROJECT # 83818
COMPANY/ADDRESS Michigan Paperboard Company
79 East Fountain Street
Battle Creek, Michigan 49017 PHONE 269-963-4004
REPORT TO. Chad Langcore
SAMPLER'S SIGNATURE Jim Hosking

ANALYSIS REQUEST

- [X] RPTA – Baseline Sampling (Comprehensive List) (TIC ANALYSIS)
- [ ] RPTA Focused Sampling (Short List)
- [ ] Focused Sampling- Mill specific Compounds
- [ ] RPTA – FDA Extractions (Two Conditions)*
- [ ] RPTA - Dairyman Standard (Swab Option)
- [ ] RPTA - Electronic Data

(List in Special Instructions) *Aqueous and Fatty Uses, Conditions of use C-G

SAMPLE I.D.	DATE	TIME
#2 Papermachine Composite samples		
3/24, 3/25, 3/24, 3/27, 3/28/2003		

REMARKS

Average Basis Weight
Type of Product:
- [X] Clay Coated/Uncoated
- [ ] Polycoated
- [ ] All Paperboard

SPECIAL INSTRUCTIONS/COMMENTS

Please list any mill specific compounds to be tested for:

TIC ANALYSIS

RELINQUISHED BY:
Signature: Tracy Thorpe
Printed Name: TRACY THORPE
Firm: MPC
Date/Time: 4-3-03

RECEIVED BY:
Signature: X
Printed Name
Firm
Date/Time

INVOICE INFORMATION:
P.O.# 83818
Bill To: Michigan Paperboard Company
79 East Fountain Street
Battle Creek, Michigan
49017

SAMPLE RECEIPT:
Shipping VIA:
Shipping to:
Condition:
Lab No:

Track shipments

Detailed results

Tracking number	116775010007324
Reference number	
Invoice number	
Purchase order number	
Ship date	04/04/2003
Delivery location	KELSO
Delivery date/time	04/10/2003 09 48
Signed for by	JJENKINS
Service type	Ground-Domestic
Total weight	7 0 lbs

Email your detailed tracking results

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To

To

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Scan activity	Date/Time
Delivered/KELSO WA	04/10/2003 09 48
On FedEx vehicle for delivery/PORTLAND OR	04/10/2003 02 02
Scanned at FedEx sort facility/PORTLAND OR	04/09/2003 14 03
Scanned at FedEx sort facility/CHICAGO IL	04/05/2003 02 38
Arrived at FedEx sort facility/CHICAGO IL	04/04/2003 23 57
Departed FedEx sort facility/KALAMAZOO MI	04/04/2003 22 02
Loaded onto trailer at FedEx facility/KALAMAZOO MI	04/04/2003 18 22
Picked up by FedEx/KALAMAZOO MI	04/04/2003 11 24
Package information transmitted to FedEx	04/03/2003 14 36

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Please Remit to: P.O. Box 1515
Tacoma, WA 98401-1515
(360) 577-7222 • Fax (360) 425-9096

T.I.N. 91-2050686

INVOICE

Work Order No. J2300018
Customer No. 7270089

Attn: Accounts Payable
Michigan Paperboard Co.
79 E Fountain St.
Battle Creek, MI 49017

Invoice No. 719257
Date: 1/27/2003
P.O. Number: 82652
Project No.: 82652
Project Name: Protocol Samples

Report to: Chad Longcore
Project Manager: Martha Montero
Samples submitted on: 1/6/2003

Item Code	Description	Quantity Ordered	Unit Price	Extended Price
SVG-1A-01-BB	Semivolatile Organics (EPA 8270C)	1	$190.00	$190.00
SVG-1A-29-BC	Polynuclear Aromatic Hydrocarbons, PAHs (EPA 8270C SIM)	1	$190.00	$190.00
MET-1A-07-DB	Total Metals (EPA 6020)	1	$25.00	$25.00

Amount Due **$405.00**

Columbia Analytical Services INC
An Employee-Owned Company

January 27, 2003 Service Request No. J2300018

Chad Longcore
Michigan Paperboard Co.
79 E Fountain St.
Battle Creek, MI 49017

RE: Certified Analytical Report for
Project No.: 82652
Project Name: Protocol Samples

Dear Chad Longcore:

Enclosed are the results of the samples(s) submitted to our laboratory on January 06, 2003. For your reference, these analyses have been assigned our service request number: J2300018.

All analyses were performed according to our laboratory's quality assurance program. NELAP requirements were met unless footnotes in each sample report indicate otherwise. Estimates regarding the degree of uncertainty in measurements can be inferred from the accuracy limits in the laboratory QA manual. However, these limits do not account for possible matrix effects. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions.

Respectfully submitted,

Columbia Analytical Services, Inc.

Martha Montero
Project Manager

CAS Jacksonville is NELAC-accredited by the State of Florida (E82502). Other state accreditations include: AR, AR; LA, AI 30759; MA, M-FL937; NC, 527; SC, 96021; WA, C278.

8540 Baycenter Rd ▪ Jacksonville, FL 32256 ▪ (904) 739-2277 ▪ Fax (904) 739-2011

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Data Qualifiers

Inorganic Data

- * The result is an outlier See case narrative
- # The control limit criteria are not applicable See case narrative
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result
- E The result is an estimated amount because the value exceeded the instrument calibration range
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL
- Z Too many colonies were present (TNTC) The numeric value represents the filtration volume
- 1 The MRL/MDL has been elevated due to matrix interference
- X See case narrative

Metals Data

- * The result is an outlier See case narrative
- # The control limit criteria are not applicable See case narrative
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL
- E The reported value is estimated because of the presence of matrix interference
- M The duplicate injection precision was not met
- N The Matrix Spike sample recovery is not within control limits See case narrative
- S The result was determined by Method of Standard Additions (MSA)
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance
- 1 The MRL/MDL has been elevated due to matrix interference
- X See case narrative
- + The correlation coefficient for the MSA is less than 0 995

Organic Data

- * The result is an outlier See case narrative
- # The control limit criteria are not applicable See case narrative
- A The tentatively identified compound is a suspected aldol-condensation product
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data
- D The reported result is from a dilution
- E The result is an estimated amount because the value exceeded the instrument calibration range
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL
- N The result is presumptive The analyte was tentatively identified but a confirmation analysis was not performed
- P The GC or HPLC confirmation criteria were exceeded The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides)
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL
- 1 The MRL/MDL has been elevated due to a chromatographic interference
- X See case narrative

Petroleum Hydrocarbon Specific

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard
- L The chromatographic fingerprint of the sample resembles a petroleum product but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard
- H The chromatographic fingerprint of the sample resembles a petroleum product but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard
- Z The chromatographic fingerprint does not resemble a petroleum product

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co.	**Service Request:**	J2300018
Project:	Protocol Samples/82652	**Date Collected:**	12/20/2002
Sample Matrix:	Paper	**Date Received:**	1/6/2003

Base Neutral/Acid Semivolatile Organic Compounds

Sample Name:	Paper Composite	Units:	mg/Kg (ppm)
Lab Code:	J2300018-001	Basis:	As Received
Test Notes:		Basis Weight (#/MSF):	100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Benzidine	3550	8270C	5	0.0000107	10	1/7/2003	1/14/2003	U	
Benzoic Acid	3550	8270C	50	9880	10	1/7/2003	1/14/2003	U	
Benzyl alcohol	3550	8270C	5	2470	10	1/7/2003	1/14/2003	U	
Biphenyl	3550	8270C	5	123	10	1/7/2003	1/14/2003	U	a
Bis(2-ethylhexyl) Phthalate	3550	8270C	5	11	10	1/7/2003	1/14/2003	U	
Butyl Benzyl Phthalate	3550	8270C	5	2880	10	1/7/2003	1/14/2003	U	
4-Chloro-3-methylphenol	3550	8270C	10	45.2	10	1/7/2003	1/14/2003	U	
4-Chloroaniline	3550	8270C	5	9.88	10	1/7/2003	1/14/2003	U	
2-Chloronaphthalene	3550	8270C	5	198	10	1/7/2003	1/14/2003	U	
2-Chlorophenol	3550	8270C	5	12.3	10	1/7/2003	1/14/2003	U	
Di-n-butyl Phthalate	3550	8270C	5	1460	10	1/7/2003	1/14/2003	U	
Di-n-octyl Phthalate	3550	8270C	5	193	10	1/7/2003	1/14/2003	U	
Dibenzofuran	3550	8270C	5	9.88	10	1/7/2003	1/14/2003	U	
3,3'-Dichlorobenzidine	3550	8270C	10	0.00549	10	1/7/2003	1/14/2003	U	
2,4-Dichlorophenol	3550	8270C	5	7.41	10	1/7/2003	1/14/2003	U	
Diethyl Phthalate	3550	8270C	5	3250	10	1/7/2003	1/14/2003	U	
Dimethyl Phthalate	3550	8270C	5	3250	10	1/7/2003	1/14/2003	U	
2,4-Dimethylphenol	3550	8270C	5	49.4	10	1/7/2003	1/14/2003	U	
2-Methyl-4,6-dinitrophenol	3550	8270C	10	0.173	10	1/7/2003	1/14/2003	U	
2,4-Dinitrophenol	3550	8270C	10	0.741	10	1/7/2003	1/14/2003	U	
2,4-Dinitrotoluene	3550	8270C	5	0.0705	10	1/7/2003	1/14/2003	U	
2,6-Dinitrotoluene	3550	8270C	5	0.00363	10	1/7/2003	1/14/2003	U	
Hexachlorobenzene	3550	8270C	5	0.00154	10	1/7/2003	1/14/2003	U	
Hexachlorobutadiene	3550	8270C	5	0.0317	10	1/7/2003	1/14/2003	U	
Hexachlorocyclopentadiene	3550	8270C	5	17.3	10	1/7/2003	1/14/2003	U	
Hexachloroethane	3550	8270C	5	0.176	10	1/7/2003	1/14/2003	U	
Isophorone	3550	8270C	5	2.47	10	1/7/2003	1/14/2003	U	
1-Methylnaphthalene	3550	8270C	5	98.8	10	1/7/2003	1/14/2003	U	
2-Methylnaphthalene	3550	8270C	5	98.8	10	1/7/2003	1/14/2003	U	
2-Methylphenol	3550	8270C	5	123	10	1/7/2003	1/14/2003	U	
3- and 4-Methylphenol Coelut	3550	8270C	5	123	10	1/7/2003	1/14/2003	U	
N-Nitrosodi-n-propylamine	3550	8270C	5	0.000353	10	1/7/2003	1/14/2003	U	
N-Nitrosodimethylamine	3550	8270C	5	0 0000484	10	1/7/2003	1/14/2003	U	
N-Nitrosodiphenylamine	3550	8270C	5	0.504	10	1/7/2003	1/14/2003	U	
2-Nitroaniline	3550	8270C	5	26 4	10	1/7/2003	1/14/2003	U	
3-Nitroaniline	3550	8270C	5	22.2	10	1/7/2003	1/14/2003	U	
4-Nitroaniline	3550	8270C	5	18.5	10	1/7/2003	1/14/2003	U	
Nitrobenzene	3550	8270C	5	1.23	10	1/7/2003	1/14/2003	U	
2-Nitrophenol	3550	8270C	5	8.25	10	1/7/2003	1/14/2003	U	
4-Nitrophenol	3550	8270C	10	6.17	10	1/7/2003	1/14/2003	U	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration (All Food and Paperboard Types, Basis Weight Corrected)

a Searched for as a tentatively identified compound.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co	**Service Request:**	J2300018
Project:	Protocol Samples/82652	**Date Collected:**	12/20/2002
Sample Matrix:	Paper	**Date Received:**	1/6/2003

Base Neutral/Acid Semivolatile Organic Compounds

Sample Name:	Paper Composite	Units:	mg/Kg (ppm)
Lab Code:	J2300018-001	Basis:	As Received
Test Notes:		Basis Weight (#/MSF):	100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
2,2'-Oxybis(1-chloropropane)	3550	8270C	10	5 93	10	1/7/2003	1/14/2003	U	
Pentachlorophenol	3550	8270C	10	0 0206	10	1/7/2003	1/14/2003	U	
Phenol	3550	8270C	5	1480	10	1/7/2003	1/14/2003	U	
Pyridine	3550	8270C	5	2 47	10	1/7/2003	1/14/2003	U	
2,3,4,6-Tetrachlorophenol*	3550	8270C	5	74 1	10	1/7/2003	1/14/2003	U	a
1,2,4-Trichlorobenzene	3550	8270C	5	3 21	10	1/7/2003	1/14/2003	U	
2,4,5-Trichlorophenol	3550	8270C	5	247	10	1/7/2003	1/14/2003	U	
2,4,6-Trichlorophenol	3550	8270C	5	0 224	10	1/7/2003	1/14/2003	U	
Bis(2-chloroethoxy)methane	3550	8270C	5	1 6	10	1/7/2003	1/14/2003	U	
Bis(2-chloroethyl) Ether	3550	8270C	5	0 00224	10	1/7/2003	1/14/2003	U	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration (All Food and Paperboard Types, Basis Weight Corrected)

a Searched for as a tentatively identified compound.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co.	**Service Request:**	J2300018
Project:	Protocol Samples/82652	**Date Collected:**	NA
Sample Matrix:	Paper	**Date Received:**	NA

Base Neutral/Acid Semivolatile Organic Compounds

Sample Name:	Method Blank	Units:	mg/Kg (ppm)
Lab Code:	JWG0300151-MB	Basis:	NA
Test Notes:		Basis Weight (#/MSF):	100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Benzidine	3550	8270C	0.5	0 0000107	1	1/7/2003	1/14/2003	U	
Benzoic Acid	3550	8270C	5	9880	1	1/7/2003	1/14/2003	U	
Benzyl alcohol	3550	8270C	0.5	2470	1	1/7/2003	1/14/2003	U	
Biphenyl	3550	8270C	0.5	123	1	1/7/2003	1/14/2003	U	a
Bis(2-ethylhexyl) Phthalate	3550	8270C	0.5	11	1	1/7/2003	1/14/2003	U	
Butyl Benzyl Phthalate	3550	8270C	0.5	2880	1	1/7/2003	1/14/2003	U	
4-Chloro-3-methylphenol	3550	8270C	1	45 2	1	1/7/2003	1/14/2003	U	
4-Chloroaniline	3550	8270C	0.5	9.88	1	1/7/2003	1/14/2003	U	
2-Chloronaphthalene	3550	8270C	0.5	198	1	1/7/2003	1/14/2003	U	
2-Chlorophenol	3550	8270C	0.5	12.3	1	1/7/2003	1/14/2003	U	
Di-n-butyl Phthalate	3550	8270C	0.5	1460	1	1/7/2003	1/14/2003	U	
Di-n-octyl Phthalate	3550	8270C	0.5	193	1	1/7/2003	1/14/2003	U	
Dibenzofuran	3550	8270C	0.5	9.88	1	1/7/2003	1/14/2003	U	
3,3'-Dichlorobenzidine	3550	8270C	1	0.00549	1	1/7/2003	1/14/2003	U	
2,4-Dichlorophenol	3550	8270C	0.5	7.41	1	1/7/2003	1/14/2003	U	
Diethyl Phthalate	3550	8270C	0.5	3250	1	1/7/2003	1/14/2003	U	
Dimethyl Phthalate	3550	8270C	0.5	3250	1	1/7/2003	1/14/2003	U	
2,4-Dimethylphenol	3550	8270C	0.5	49.4	1	1/7/2003	1/14/2003	U	
2-Methyl-4,6-dinitrophenol	3550	8270C	1	0.173	1	1/7/2003	1/14/2003	U	
2,4-Dinitrophenol	3550	8270C	1	0 741	1	1/7/2003	1/14/2003	U	
2,4-Dinitrotoluene	3550	8270C	0.5	0.0705	1	1/7/2003	1/14/2003	U	
2,6-Dinitrotoluene	3550	8270C	0.5	0.00363	1	1/7/2003	1/14/2003	U	
Hexachlorobenzene	3550	8270C	0.5	0 00154	1	1/7/2003	1/14/2003	U	
Hexachlorobutadiene	3550	8270C	0.5	0.0317	1	1/7/2003	1/14/2003	U	
Hexachlorocyclopentadiene	3550	8270C	0.5	17.3	1	1/7/2003	1/14/2003	U	
Hexachloroethane	3550	8270C	0.5	0 176	1	1/7/2003	1/14/2003	U	
Isophorone	3550	8270C	0.5	2.47	1	1/7/2003	1/14/2003	U	
1-Methylnaphthalene	3550	8270C	0.5	98.8	1	1/7/2003	1/14/2003	U	
2-Methylnaphthalene	3550	8270C	0.5	98.8	1	1/7/2003	1/14/2003	U	
2-Methylphenol	3550	8270C	0.5	123	1	1/7/2003	1/14/2003	U	
3- and 4-Methylphenol Coeluti	3550	8270C	0.5	123	1	1/7/2003	1/14/2003	U	
N-Nitrosodi-n-propylamine	3550	8270C	0.5	0 000353	1	1/7/2003	1/14/2003	U	
N-Nitrosodimethylamine	3550	8270C	0.5	0.0000484	1	1/7/2003	1/14/2003	U	
N-Nitrosodiphenylamine	3550	8270C	0.5	0.504	1	1/7/2003	1/14/2003	U	
2-Nitroaniline	3550	8270C	0.5	26.4	1	1/7/2003	1/14/2003	U	
3-Nitroaniline	3550	8270C	0.5	22.2	1	1/7/2003	1/14/2003	U	
4-Nitroaniline	3550	8270C	0.5	18.5	1	1/7/2003	1/14/2003	U	
Nitrobenzene	3550	8270C	0.5	1.23	1	1/7/2003	1/14/2003	U	
2-Nitrophenol	3550	8270C	0.5	8.25	1	1/7/2003	1/14/2003	U	
4-Nitrophenol	3550	8270C	1	6.17	1	1/7/2003	1/14/2003	U	

* From 9/21/01 RPTA Testing Protocol. Table 2-1, Conservative Allowable Concentration (All Food and Paperboard Types, Basis Weight Corrected)

a Searched for as a tentatively identified compound.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co	**Service Request:**	J2300018
Project:	Protocol Samples/82652	**Date Collected:**	NA
Sample Matrix:	Paper	**Date Received:**	NA

Base Neutral/Acid Semivolatile Organic Compounds

Sample Name	Method Blank	Units	mg/Kg (ppm)
Lab Code.	JWG0300151-MB	Basis	NA
Test Notes		Basis Weight (#/MSF)	100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
2,2'-Oxybis(1-chloropropane)	3550	8270C	1	5 93	1	1/7/2003	1/14/2003	U	
Pentachlorophenol	3550	8270C	1	0 0206	1	1/7/2003	1/14/2003	U	
Phenol	3550	8270C	0 5	1480	1	1/7/2003	1/14/2003	U	
Pyridine	3550	8270C	0 5	2 47	1	1/7/2003	1/14/2003	U	
2,3,4,6-Tetrachlorophenol*	3550	8270C	0 5	74 1	1	1/7/2003	1/14/2003	U	a
1,2,4-Trichlorobenzene	3550	8270C	0 5	3 21	1	1/7/2003	1/14/2003	U	
2,4,5-Trichlorophenol	3550	8270C	0 5	247	1	1/7/2003	1/14/2003	U	
2,4,6-Trichlorophenol	3550	8270C	0 5	0 224	1	1/7/2003	1/14/2003	U	
Bis(2-chloroethoxy)methane	3550	8270C	0 5	1 6	1	1/7/2003	1/14/2003	U	
Bis(2-chloroethyl) Ether	3550	8270C	0 5	0 00224	1	1/7/2003	1/14/2003	U	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration (All Food and Paperboard Types. Basis Weight Corrected)

a Searched for as a tentatively identified compound

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co	**Service Request:**	J2300018
Project:	Protocol Samples/82652	**Date Collected:**	12/20/2002
Sample Matrix:	Paper	**Date Received:**	1/6/2003

Polynuclear Aromatic Hydrocarbons (PAHs)

Sample Name	Paper Composite	Units	mg/Kg (ppm)
Lab Code	J2300018-001	Basis	As Received
Test Notes		Basis Weight (#MSF)	100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Acenaphthene	3550	8270C	0 05	1100	10	1/6/2003	1/15/2003	U	
Acenaphthylene	3550	8270C	0 05	552	10	1/6/2003	1/15/2003	U	
Anthracene	3550	8270C	0 05	5530	10	1/6/2003	1/15/2003	U	
Benz(a)anthracene	3550	8270C	0 05	0 00635	10	1/6/2003	1/15/2003	U	
Benzo(a)pyrene	3550	8270C	0 05	0 000762	10	1/6/2003	1/15/2003	U	
Benzo(b)fluoranthene	3550	8270C	0 05	0 00318	10	1/6/2003	1/15/2003	U	
Benzo(g,h,i)perylene	3550	8270C	0 05	0 106	10	1/6/2003	1/15/2003	U	
Benzo(k)fluoranthene	3550	8270C	0 05	0 0452	10	1/6/2003	1/15/2003	U	
Carbazole	3550	8270C	0 05	0 123	10	1/6/2003	1/15/2003	U	
Chrysene	3550	8270C	0 05	0 0317	10	1/6/2003	1/15/2003	U	
Dibenz(a,h)anthracene	3550	8270C	0 05	0 00302	10	1/6/2003	1/15/2003	U	
Fluoranthene	3550	8270C	0 05	0 31	10	1/6/2003	1/15/2003	U	
Fluorene	3550	8270C	0 05	1430	10	1/6/2003	1/15/2003	U	
Indeno(1,2,3-cd)pyrene	3550	8270C	0 05	0 0252	10	1/6/2003	1/15/2003	U	
Naphthalene	3550	8270C	0 05	870	10	1/6/2003	1/15/2003	U	
Phenanthrene	3550	8270C	0 05	947	10	1/6/2003	1/15/2003	U	
Pyrene	3550	8270C	0 05	333	10	1/6/2003	1/15/2003	U	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration
(All Food and Paperboard Types, Basis Weight Corrected)

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co	**Service Request:**	J2300018
Project:	Protocol Samples/82652	**Date Collected:**	NA
Sample Matrix:	Paper	**Date Received:**	NA

Polynuclear Aromatic Hydrocarbons (PAHs)

Sample Name	Method Blank	Units	mg/Kg (ppm)
Lab Code	JWG0300142-MB	Basis	NA
Test Notes		Basis Weight (#MSF)	100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Acenaphthene	3550	8270C	0 005	1100	1	1/6/2003	1/15/2003	U	
Acenaphthylene	3550	8270C	0 005	552	1	1/6/2003	1/15/2003	U	
Anthracene	3550	8270C	0 005	5530	1	1/6/2003	1/15/2003	U	
Benz(a)anthracene	3550	8270C	0 005	0 00635	1	1/6/2003	1/15/2003	U	
Benzo(a)pyrene	3550	8270C	0 005	0 000762	1	1/6/2003	1/15/2003	U	
Benzo(b)fluoranthene	3550	8270C	0 005	0 00318	1	1/6/2003	1/15/2003	U	
Benzo(g,h,i)perylene	3550	8270C	0 005	0 106	1	1/6/2003	1/15/2003	U	
Benzo(k)fluoranthene	3550	8270C	0 005	0 0452	1	1/6/2003	1/15/2003	U	
Carbazole	3550	8270C	0 005	0 123	1	1/6/2003	1/15/2003	U	
Chrysene	3550	8270C	0 005	0 0317	1	1/6/2003	1/15/2003	U	
Dibenz(a,h)anthracene	3550	8270C	0 005	0 00302	1	1/6/2003	1/15/2003	U	
Fluoranthene	3550	8270C	0 005	0 31	1	1/6/2003	1/15/2003	U	
Fluorene	3550	8270C	0 005	1430	1	1/6/2003	1/15/2003	U	
Indeno(1,2,3-cd)pyrene	3550	8270C	0 005	0 0252	1	1/6/2003	1/15/2003	U	
Naphthalene	3550	8270C	0 005	870	1	1/6/2003	1/15/2003	U	
Phenanthrene	3550	8270C	0 005	947	1	1/6/2003	1/15/2003	U	
Pyrene	3550	8270C	0 005	333	1	1/6/2003	1/15/2003	U	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration (All Food and Paperboard Types, Basis Weight Corrected)

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co.	**Service Request:**	J2300018
Project:	Protocol Samples/82652	**Date Collected:**	12/20/2002
Sample Matrix:	Paper	**Date Received:**	1/6/2003

Lead

Sample Name:	Paper Composite	Units:	mg/Kg (ppm)
Lab Code:	J2300018-001	Basis:	As Received
Test Notes:		Basis Weight (#/MSF):	100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Lead	3050B	6020	2	2.14	1	1/22/2003	1/22/2003	2.7	

Contacted Lynda Huckastain at CAS
Retained sample to be sent to WA lab
and rechecked.

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration (All Food and Paperboard Types; Basis Weight Corrected)

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co	**Service Request:**	J2300018
Project:	Protocol Samples/82652	**Date Collected:**	NA
Sample Matrix:	Paper	**Date Received:**	NA

Lead

Sample Name	Method Blank	Units	mg/Kg (ppm)
Lab Code	J220122-MB	Basis	NA
Test Notes		Basis Weight (#/MSF)	100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Lead	3050B	6020	2	2 14	1	1/22/2003	1/22/2003	U	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration (All Food and Paperboard Types, Basis Weight Corrected)

Columbia Analytical Services

JACKSONVILLE LABORATORY
CONDITION UPON RECEIPT FORM

Client: Michigan Paperboard **Project name:** RPTA Protocol Testing

Date received: 1/6/03 09:00 **Service request number:** J2300018

Received by: CJ **CUR completed by:** CJ

Cooler/Shipping Information:

Courier: ☐ CAS ☐ Client ☐ UPS ☐ Airborne ☑ FedEx ☐ Other (describe): 7915-0283-0715

Type: ☐ Cooler ☑ Box ☐ Other (describe)

Cooler temperature: Identify the cooler and document the temperature blank or ice water measurement

Cooler ID	N/A				
Temp (°C)	N/A				
Temp taken from	☐ Temp blank ☐ Sample bottle	☐ Temp blank ☐ Sample bottle	☐ Temp blank ☐ Sample bottle	☐ Temp blank ☐ Sample bottle	☐ Temp blank ☐ Sample bottle
Temp measured with	☐ IR gun ☐ Thermometer (enter ID):	☐ IR gun ☐ Thermometer (enter ID):	☐ IR gun ☐ Thermometer (enter ID):	☐ IR gun ☐ Thermometer (enter ID):	☐ IR gun ☐ Thermometer (enter ID):

Other Information:

Any "NO" responses or discrepancies should be explained in the "Comments" section below or an NCM if so required. If an NCM was initiated, write the NCM number in the appropriate space.

CHECKLIST	YES	NO	NA	NCM #
1. Were custody seals on shipping container(s) intact? **If "No", NCM required.**			✓	
2. Were custody papers properly included with samples?	✓			
3. Were custody papers properly filled out (ink, signed, match labels)?	✓			
4. Did all bottles arrive in good condition (unbroken)?			✓	
5. Were all bottle labels complete (sample #, date, signed, analysis, preservatives)?	✓			
6. Did the sample labels agree with the chain of custody?	✓			
7. Were correct bottles used for the tests indicated?			✓	
8. Were proper sample preservation techniques indicated on the label?			✓	
9. Were samples received within holding times? **If "No," NCM required.**			✓	
10. Were all VOA vials checked for the presence of air bubbles? **If "No", NCM required.**			✓	
11. Were there air bubbles present in the VOA vials? **If "Yes", NCM required.**			✓	
12. Were samples in direct contact with wet ice? If "No," check one: ☐ NO ICE ☐ BLUE ICE			✓	
13. Was the cooler temperature less than 6°C?			✓	
14. Were sample pHs checked and recorded by Sample control? Checks are on reverse side of form. *NOTE: VOA samples are checked by laboratory analysts.*			✓	
15. Were the sample containers provided by CAS?		✓		
16. Were samples accepted into the laboratory?	✓			

Comments:

Columbia Analytical Services

Jacksonville Laboratory
Condition Upon Receipt - Sample pH

SR # J23000 8 Date 1/6/03 Initials CJ

A check mark in any space under the appropriate column headings for the selected sample indicates that the pH was checked and met the required pH criterion listed in the column heading

	Bottle Code																									
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
	40-mL	40-mL	125-mL	250-mL	500-mL	1-L	250-mL	1-L	2-oz	4-oz	8-oz	16-oz	5 g	100-mL	250-mL	500-mL	1-L	1-L	250-mL	500-mL	1-L	250-mL	250-mL	1 75-L	500-mL	Misc
Container	G	G	P	P	P	P	G	G	G	G	G	G	ENC	P	P	P	P	G	P	P	P	G	P	P	P	Misc
Pres	HCl		HCl											Sodium Thiosulfate	H2SO4	H2SO4	H2SO4	H2SO4	HNO3	HNO3	HNO3	HNO3	NaOH	NaOH	ZnAcetate NaOH	
Req pH	<2	N/A	<2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<2	<2	<2	<2	<2	<2	<2	<2	>12	>12	>9	N/A
Sample #	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-		-	-	-	-
-001																										5
-002																										
-003																										
-004																										
-005																										
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-035																										
-036																										
-037																										
-038																										
-039																										
-040																										

For aqueous samples with multiple containers, only 1 bottle is checked for pH
NOTE VOA pH checks are performed by the analytical area, not sample control

Q:\Forms\Sample Receiving\CUR Preservation Checks.xls
Page 2

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Columbia Analytical Services
An Enterprise Division Company

8540 Baycenter Rd • Jacksonville, FL 32256 • (904) 739-2277 • 800-695-7222 x 06 • FAX (904) 739-2011

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST

J2300018

DATE 12/20/2002 PAGE 1 OF 1

PROJECT NAME Protocol Samples
PROJECT # P.O# 82652
COMPANY/ADDRESS Michigan Paperboard Company
79 East Fountain Street
Battle Creek, Michigan 49017 PHONE 616-963-4004
REPORT TO Chad Longcore
SAMPLER'S SIGNATURE

ANALYSIS REQUEST

- [x] RPTA – Baseline Sampling (Comprehensive List)
- [ ] RPTA Focused Sampling (Short List)
- [ ] Focused Sampling- Mill specific Compounds
- [ ] RPTA – FDA Extractions (Two Conditions)*
- [ ] RPTA - Dairyman Standard (Swab Option)
- [ ] RPTA - Electronic Data

(List in Special Instructions) *Aqueous and Fatty Uses, Conditions of use C-G

SAMPLE I.D.	DATE	TIME
composite		
12/16, 12/17, 12/18, 12/19, 12/20		

REMARKS

Average Basis Weight
Type of Product:
- [x] Clay Coated/Uncoated
- [x] Polycoated
- [ ] All Paperboard

SPECIAL INSTRUCTIONS/COMMENTS

Please list any mill specific compounds to be tested for:

RELINQUISHED BY:	RECEIVED BY:
Signature	Chris Ferguson
Printed Name	CHRIS FERGUSON
Firm	CAS
Date/Time	1/6/03 09:00

INVOICE INFORMATION:
P.O.#
Bill To: Michigan Paperboard Co.
79 East Fountain St.
Battle Creek, Michigan

SAMPLE RECEIPT:
Shipping VIA:
Shipping to
Condition
Lab No:

DISTRIBUTION: WHITE - return to originator; YELLOW - lab; PINK - retained by originator

COCRPTAJX 1001

Columbia Analytical Services

ACKNOWLEDGMENT OF SAMPLE RECEIPT

TO: Chad Longcore
FAX No.: 616-963-4425
FROM: Martha Montero/Project Manager
Columbia Analytical Services, Inc.

Columbia Analytical Services (CAS) has received your samples as detailed below:

- Receipt date: January 6, 2003
- Project Information: Protocol Samples/82652
- CAS Service Request No.: J2300018

The target date for report submission to you is: **Mon, January 27, 2003**

A summary of our CAS service request or intercompany service request is attached. If you have any questions regarding the status of this work, please call me at (904) 739-2277.

Thank you for your business.

Number of pages (including cover sheet): 3

Columbia Analytical Services, Inc.
8540 Baycenter Road
Jacksonville, FL 32256
(904) 739-2277
(904) 739-2011 fax

Columbia Analytical Services - Jacksonville

Service Request J2300018

Project Summary

Tests:

1	8270(Std)	18	
2	8270-SIM(PAH)	19	
3	6020,Total(ICP-MS)	20	
4		21	
5		22	
6		23	
7		24	
8		25	
9		26	
10		27	
11		28	
12		29	**Outlab tests**
13		30	35
14		31	36
15		32	37
16		33	38
17		34	39

Samples:

Lab Codes	Sample ID	Test to be performed	Sample Date	Time	Matrix
J2300018-001	Paper Composite	1-3	12/20/2002	00:01	Paper

Project Notes for Service Request J2300018

Project Manager Martha Montero

Project Notes: Please composite sheets prior to analysis.

Test	Method notes	Metal analytes	Certifications SDWA	CWA	RCRA
8270(Std)		NA	-	-	N*
8270-SIM(PAH)		NA	-	-	N*
6020,Total(ICP-MS)		Pb	-	N*	N*
		NA			
		NA			
		NA			
		NA			
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		NA			

Certification SDWA is for drinking water, CWA is for wastewater, RCRA is for solid wastes

N = NELAC certified for method

N* = NELAC certified for method, but some parameters may not be certified

X = Certified by FDoH, but not by NELAC

Columbia Analytical Services INC.
An Employee-Owned Company

Please Remit to: P.O. Box 1515
Tacoma, WA 98401-1515
(360) 577-7222 • Fax (360) 425-9096

T.I.N. 91-2050686

INVOICE

Work Order No. J2203459
Customer No. 7270089

Attn: Accounts Payable
Michigan Paperboard Co.
79 E Fountain St.
Battle Creek, MI 49017

Invoice No. 718753
Date: 11/12/2002
P.O. Number: 81740
Project No.: 81740
Project Name: RPTA Protocol Focused Sampling
Report to: Chad Longcore
Project Manager: Martha Montero
Samples submitted on: 10/18/2002

Item Code	Description	Quantity Ordered	Unit Price	Extended Price
SVG-1A-29-BC	Polynuclear Aromatic Hydrocarbons, PAHs (EPA 8270C SIM)	1	$190.00	$190.00
SVG-1A-01-BB	Semivolatile Organics (EPA 8270C)	1	$190.00	$190.00
MET-1A-07-CB	Total Metals (EPA 200.8)	1	$15.00	$15.00

Amount Due **$395.00**

Columbia Analytical Services INC
An Employee-Owned Company

November 12, 2002 Service Request No. J2203459

Chad Longcore
Michigan Paperboard Co.
79 E Fountain St.
Battle Creek, MI 49017

RE: Test Report for
Project No.: 81740
Project Name: RPTA Protocol Focused Sampling

Dear Chad Longcore:

Enclosed are the results of the samples(s) submitted to our laboratory on October 18, 2002. For your reference, these analyses have been assigned our service request number: J2203459.

All analyses were performed according to our laboratory's quality assurance program. NELAP requirements were met unless footnotes in each sample report indicate otherwise. Estimates regarding the degree of uncertainty in measurements can be inferred from the accuracy limits in the laboratory QA manual. However, these limits do not account for possible matrix effects. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions.

Respectfully submitted,

Columbia Analytical Services, Inc.

Martha Montero
Project Manager

CAS Jacksonville is NELAC-accredited by the State of Florida (E82502). Other state accreditations include: LA, AI 30759; MA, M-FL937; NC, 527; SC, 96021; WA, C278.

8540 Baycenter Rd. ▪ Jacksonville, FL 32256 ▪ (904) 739-2277 ▪ Fax (904) 739-2011

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Data Qualifiers

Inorganic Data

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
E	The result is an estimated amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
Z	Too many colonies were present (TNTC). The numeric value represents the filtration volume.
i	The MRL/MDL has been elevated due to matrix interference.
X	See case narrative.

Metals Data

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
E	The reported value is estimated because of the presence of matrix interference.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL has been elevated due to matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.

Organic Data

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	The tentatively identified compound is a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.

C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.

D The reported result is from a dilution.

E The result is an estimated amount because the value exceeded the instrument calibration range.

J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.

P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides)

U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.

i The MRL/MDL has been elevated due to a chromatographic interference.

X See case narrative.

Petroleum Hydrocarbon Specific

F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.

L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.

H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.

O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.

Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.

Z The chromatographic fingerprint does not resemble a petroleum product.

Data Qualifiers

Inorganic Data

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
E	The result is an estimated amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
Z	Too many colonies were present (TNTC). The numeric value represents the filtration volume.
i	The MRL/MDL has been elevated due to matrix interference.
X	See case narrative.

Metals Data

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
E	The reported value is estimated because of the presence of matrix interference.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL has been elevated due to matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.

Organic Data

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	The tentatively identified compound is a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co.	**Service Request:**	J2203459
Project:	RPTA Protocol Focused Sampling/81740	**Date Collected:**	9/27/2002
Sample Matrix:	Paperboard	**Date Received:**	10/18/2002

Base Neutral/Acid Semivolatile Organic Compounds

Sample Name:	#2 Paper Machine Board Samples Composite	Units:	mg/Kg (ppm)
Lab Code:	J2203459-001	Basis:	As Received
Test Notes:		Basis Weight (#/MSF):	100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Benzidine	3550	8270C	0.5	0.0000107	1	10/24/2002	11/1/2002	U	
Benzoic Acid	3550	8270C	5	9880	1	10/24/2002	11/1/2002	U	
Benzyl alcohol	3550	8270C	0.5	2470	1	10/24/2002	11/1/2002	U	
Biphenyl	3550	8270C	0.5	123	1	10/24/2002	11/1/2002	U	a
Bis(2-ethylhexyl) Phthalate	3550	8270C	0.5	11	1	10/24/2002	11/1/2002	U	
Butyl Benzyl Phthalate	3550	8270C	0.5	2880	1	10/24/2002	11/1/2002	U	
4-Chloro-3-methylphenol	3550	8270C	1	45.2	1	10/24/2002	11/1/2002	U	
4-Chloroaniline	3550	8270C	0.5	9.88	1	10/24/2002	11/1/2002	U	
2-Chloronaphthalene	3550	8270C	0.5	198	1	10/24/2002	11/1/2002	U	
2-Chlorophenol	3550	8270C	0.5	12.3	1	10/24/2002	11/1/2002	U	
Di-n-butyl Phthalate	3550	8270C	0.5	1460	1	10/24/2002	11/1/2002	U	
Di-n-octyl Phthalate	3550	8270C	0.5	193	1	10/24/2002	11/1/2002	U	
Dibenzofuran	3550	8270C	0.5	9.88	1	10/24/2002	11/1/2002	U	
3,3'-Dichlorobenzidine	3550	8270C	1	0.00549	1	10/24/2002	11/1/2002	U	
2,4-Dichlorophenol	3550	8270C	0.5	7.41	1	10/24/2002	11/1/2002	U	
Diethyl Phthalate	3550	8270C	0.5	3250	1	10/24/2002	11/1/2002	U	
Dimethyl Phthalate	3550	8270C	0.5	3250	1	10/24/2002	11/1/2002	U	
2,4-Dimethylphenol	3550	8270C	0.5	49.4	1	10/24/2002	11/1/2002	U	
2-Methyl-4,6-dinitrophenol	3550	8270C	1	0.173	1	10/24/2002	11/1/2002	U	
2,4-Dinitrophenol	3550	8270C	1	0.741	1	10/24/2002	11/1/2002	U	
2,4-Dinitrotoluene	3550	8270C	0.5	0.0705	1	10/24/2002	11/1/2002	U	
2,6-Dinitrotoluene	3550	8270C	0.5	0.00363	1	10/24/2002	11/1/2002	U	
Hexachlorobenzene	3550	8270C	0.5	0.00154	1	10/24/2002	11/1/2002	U	
Hexachlorobutadiene	3550	8270C	0.5	0.0317	1	10/24/2002	11/1/2002	U	
Hexachlorocyclopentadiene	3550	8270C	0.5	17.3	1	10/24/2002	11/1/2002	U	
Hexachloroethane	3550	8270C	0.5	0.176	1	10/24/2002	11/1/2002	U	
Isophorone	3550	8270C	0.5	2.47	1	10/24/2002	11/1/2002	U	
1-Methylnaphthalene	3550	8270C	0.5	98.8	1	10/24/2002	11/1/2002	U	
2-Methylnaphthalene	3550	8270C	0.5	98.8	1	10/24/2002	11/1/2002	U	
2-Methylphenol	3550	8270C	0.5	123	1	10/24/2002	11/1/2002	U	
3- and 4-Methylphenol Coeluti	3550	8270C	0.5	123	1	10/24/2002	11/1/2002	U	
N-Nitrosodi-n-propylamine	3550	8270C	0.5	0.000353	1	10/24/2002	11/1/2002	U	
N-Nitrosodimethylamine	3550	8270C	0.5	0.0000484	1	10/24/2002	11/1/2002	U	
N-Nitrosodiphenylamine	3550	8270C	0.5	0.504	1	10/24/2002	11/1/2002	U	
2-Nitroaniline	3550	8270C	0.5	26.4	1	10/24/2002	11/1/2002	U	
3-Nitroaniline	3550	8270C	0.5	22.2	1	10/24/2002	11/1/2002	U	
4-Nitroaniline	3550	8270C	0.5	18.5	1	10/24/2002	11/1/2002	U	
Nitrobenzene	3550	8270C	0.5	1.23	1	10/24/2002	11/1/2002	U	
2-Nitrophenol	3550	8270C	0.5	8.25	1	10/24/2002	11/1/2002	U	
4-Nitrophenol	3550	8270C	1	6.17	1	10/24/2002	11/1/2002	U	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration (All Food and Paperboard Types, Basis Weight Corrected)

a Searched for as a tentatively identified compound.

COLUMBIA ANALYTICAL SERVICES, INC

Analytical Report

Client	Michigan Paperboard Co	**Service Request**	J2203459
Project	RPTA Protocol Focused Sampling/81740	**Date Collected**	9/27/2002
Sample Matrix	Paperboard	**Date Received**	10/18/2002

Base Neutral/Acid Semivolatile Organic Compounds

Sample Name	#2 Paper Machine Board Samples Composite	Units	mg/Kg (ppm)
Lab Code	J2203459 001	Basis	As Received
Test Notes		Basis Weight (#/MSF)	100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
2 2 Oxybis(1-chloropropane)	3550	8270C	1	5 93	1	10/24/2002	11/1/2002	U	
Pentachlorophenol	3550	8270C	1	0 0206	1	10/24/2002	11/1/2002	U	
Phenol	3550	8270C	0 5	1480	1	10/24/2002	11/1/2002	U	
Pyridine	3550	8270C	0 5	2 47	1	10/24/2002	11/1/2002	U	
2 3,4 6-Tetrachlorophenol*	3550	8270C	0 5	74 1	1	10/24/2002	11/1/2002	U	a
1 2,4-Trichlorobenzene	3550	8270C	0 5	3 21	1	10/24/2002	11/1/2002	U	
2 4,5-Trichlorophenol	3550	8270C	0 5	247	1	10/24/2002	11/1/2002	U	
2 4 6-Trichlorophenol	3550	8270C	0 5	0 224	1	10/24/2002	11/1/2002	U	
Bis(2-chloroethoxy)methane	3550	8270C	0 5	1 6	1	10/24/2002	11/1/2002	U	
Bis(2-chloroethyl) Ether	3550	8270C	0 5	0 00224	1	10/24/2002	11/1/2002	U	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration (All Food and Paperboard Types, Basis Weight Corrected)

a Searched for as a tentatively identified compound

COLUMBIA ANALYTICAL SERVICES, INC

Analytical Report

Client	Michigan Paperboard Co	**Service Request**	J2203459
Project	RPTA Protocol Focused Sampling/81740	**Date Collected**	NA
Sample Matrix	Paperboard	**Date Received**	NA

Base Neutral/Acid Semivolatile Organic Compounds

Sample Name	Method Blank	Units	mg/Kg (ppm)
Lab Code	JWG0200996-MB	Basis	NA
Test Notes		Basis Weight (#/MSF)	100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Benzidine	3550	8270C	0 5	0 0000107	1	10/24/2002	11/1/2002	U	
Benzoic Acid	3550	8270C	5	9880	1	10/24/2002	11/1/2002	U	
Benzyl alcohol	3550	8270C	0 5	2470	1	10/24/2002	11/1/2002	U	
Biphenyl	3550	8270C	0 5	123	1	10/24/2002	11/1/2002	U	a
Bis(2-ethylhexyl) Phthalate	3550	8270C	0 5	11	1	10/24/2002	11/1/2002	U	
Butyl Benzyl Phthalate	3550	8270C	0 5	2880	1	10/24/2002	11/1/2002	U	
4-Chloro-3-methylphenol	3550	8270C	1	45 2	1	10/24/2002	11/1/2002	U	
4-Chloroaniline	3550	8270C	0 5	9 88	1	10/24/2002	11/1/2002	U	
2-Chloronaphthalene	3550	8270C	0 5	198	1	10/24/2002	11/1/2002	U	
2-Chlorophenol	3550	8270C	0 5	12 3	1	10/24/2002	11/1/2002	U	
Di-n-butyl Phthalate	3550	8270C	0 5	1460	1	10/24/2002	11/1/2002	U	
Di-n-octyl Phthalate	3550	8270C	0 5	193	1	10/24/2002	11/1/2002	U	
Dibenzofuran	3550	8270C	0 5	9 88	1	10/24 2002	11/1/2002	U	
3 3-Dichlorobenzidine	3550	8270C	1	0 00549	1	10/24/2002	11/1/2002	U	
2 4-Dichlorophenol	3550	8270C	0 5	7 41	1	10/24/2002	11/1/2002	U	
Diethyl Phthalate	3550	8270C	0 5	3250	1	10/24/2002	11/1/2002	U	
Dimethyl Phthalate	3550	8270C	0 5	3250	1	10/24/2002	11/1/2002	U	
2 4-Dimethylphenol	3550	8270C	0 5	49 4	1	10/24/2002	11/1/2002	U	
2-Methyl-4 6-dinitrophenol	3550	8270C	1	0 173	1	10/24/2002	11/1/2002	U	
2 4-Dinitrophenol	3550	8270C	1	0 741	1	10/24/2002	11/1/2002	U	
2 4-Dinitrotoluene	3550	8270C	0 5	0 0705	1	10/24/2002	11/1/2002	U	
2,6-Dinitrotoluene	3550	8270C	0 5	0 00363	1	10/24/2002	11/1/2002	U	
Hexachlorobenzene	3550	8270C	0 5	0 00154	1	10/24/2002	11/1/2002	U	
Hexachlorobutadiene	3550	8270C	0 5	0 0317	1	10/24/2002	11/1/2002	U	
Hexachlorocyclopentadiene	3550	8270C	0 5	17 3	1	10/24/2002	11/1/2002	U	
Hexachloroethane	3550	8270C	0 5	0 176	1	10/24/2002	11/1/2002	U	
Isophorone	3550	8270C	0 5	2 47	1	10/24/2002	11/1/2002	U	
1-Methylnaphthalene	3550	8270C	0 5	98 8	1	10/24/2002	11/1/2002	U	
2-Methylnaphthalene	3550	8270C	0 5	98 8	1	10/24/2002	11/1/2002	U	
2 Methylphenol	3550	8270C	0 5	123	1	10/24/2002	11/1/2002	U	
3 and 4-Methylphenol Coeluti	3550	8270C	0 5	123	1	10/24/2002	11/1/2002	U	
N-Nitrosodi-n-propylamine	3550	8270C	0 5	0 000353	1	10/24/2002	11/1/2002	U	
N-Nitrosodimethylamine	3550	8270C	0 5	0 0000484	1	10/24/2002	11/1/2002	U	
N-Nitrosodiphenylamine	3550	8270C	0 5	0 504	1	10/24/2002	11/1/2002	U	
2-Nitroaniline	3550	8270C	0 5	26 4	1	10/24/2002	11/1/2002	U	
3-Nitroaniline	3550	8270C	0 5	22 2	1	10/24/2002	11 1/2002	U	
4-Nitroaniline	3550	8270C	0 5	18 5	1	10/24/2002	11/1 2002	U	
Nitrobenzene	3550	8270C	0 5	1 23	1	10/24/2002	11/1 2002	U	
2-Nitrophenol	3550	8270C	0 5	8 25	1	10/24/2002	11/1/2002	U	
4 Nitrophenol	3550	8270C	1	6 17	1	10/24/2002	11/1 2002	U	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration (All Food and Paperboard Types, Basis Weight Corrected)

a Searched for as a tentatively identified compound

COLUMBIA ANALYTICAL SERVICES, INC

Analytical Report

Client	Michigan Paperboard Co	**Service Request**	J2203459
Project	RPTA Protocol Focused Sampling/81740	**Date Collected**	NA
Sample Matrix	Paperboard	**Date Received**	NA

Base Neutral Acid Semivolatile Organic Compounds

Sample Name	Method Blank	Units	mg/Kg (ppm)
Lab Code	JWG0200996 MB	Basis	NA
Test Notes		Basis Weight (#/MSF)	100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
2 2-Oxybis(1-chloropropane)	3550	8270C	1	5 93	1	10/24/2002	11/1/2002	U	
Pentachlorophenol	3550	8270C	1	0 0206	1	10/24/2002	11/1/2002	U	
Phenol	3550	8270C	0 5	1480	1	10/24/2002	11/1/2002	U	
Pyridine	3550	8270C	0 5	2 47	1	10/24/2002	11/1/2002	U	
2 3 4 6-Tetrachlorophenol*	3550	8270C	0 5	74 1	1	10/24/2002	11/1/2002	U	a
1 2 4 Trichlorobenzene	3550	8270C	0 5	3 21	1	10/24/2002	11/1/2002	U	
2 4 5 Trichlorophenol	3550	8270C	0 5	247	1	10/24/2002	11/1/2002	U	
2,4 6-Trichlorophenol	3550	8270C	0 5	0 224	1	10/24/2002	11/1/2002	U	
Bis(2-chloroethoxy)methane	3550	8270C	0 5	1 6	1	10/24/2002	11/1/2002	U	
Bis(2-chloroethyl) Ether	3550	8270C	0 5	0 00224	1	10/24/2002	11/1/2002	U	

* From 9 21/01 RPTA Testing Protocol Table 2 1 Conservative Allowable Concentration (All Food and Paperboard Types Basis Weight Corrected)

a Searched for as a tentatively identified compound

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co	**Service Request:**	J2203459
Project:	RPTA Protocol Focused Sampling/81740	**Date Collected:**	9/27/2002
Sample Matrix:	Paperboard	**Date Received:**	10/18/2002

Polynuclear Aromatic Hydrocarbons (PAHs)

Sample Name	#2 Paper Machine Board Samples Composite	Units	mg/Kg (ppm)
Lab Code	J2203459-001	Basis	As Received
Test Notes		Basis Weight (#MSF)	100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Acenaphthene	3550	8270C	0 005	1100	1	10/31/2002	11/6/2002	U	
Acenaphthylene	3550	8270C	0 005	552	1	10/31/2002	11/6/2002	U	
Anthracene	3550	8270C	0 005	5530	1	10/31/2002	11/6/2002	U	
Benz(a)anthracene	3550	8270C	0 005	0 00635	1	10/31/2002	11/6/2002	U	
Benzo(a)pyrene	3550	8270C	0 005	0 000762	1	10/31/2002	11/6/2002	U	
Benzo(b)fluoranthene	3550	8270C	0 005	0 00318	1	10/31/2002	11/6/2002	U	
Benzo(g,h,i)perylene	3550	8270C	0 005	0 106	1	10/31/2002	11/6/2002	U	
Benzo(k)fluoranthene	3550	8270C	0 005	0 0452	1	10/31/2002	11/6/2002	U	
Carbazole	3550	8270C	0 005	0 123	1	10/31/2002	11/6/2002	U	
Chrysene	3550	8270C	0 005	0 0317	1	10/31/2002	11/6/2002	U	
Dibenz(a,h)anthracene	3550	8270C	0 005	0 00302	1	10/31/2002	11/6/2002	U	
Fluoranthene	3550	8270C	0 005	0 31	1	10/31/2002	11/6/2002	U	
Fluorene	3550	8270C	0 005	1430	1	10/31/2002	11/6/2002	U	
Indeno(1,2,3-cd)pyrene	3550	8270C	0 005	0 0252	1	10/31/2002	11/6/2002	U	
Naphthalene	3550	8270C	0 005	870	1	10/31/2002	11/6/2002	U	
Phenanthrene	3550	8270C	0 005	947	1	10/31/2002	11/6/2002	U	
Pyrene	3550	8270C	0 005	333	1	10/31/2002	11 6 2002	U	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration
(All Food and Paperboard Types, Basis Weight Corrected)

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co	**Service Request:**	J2203459
Project:	RPTA Protocol Focused Sampling/81740	**Date Collected:**	NA
Sample Matrix:	Paperboard	**Date Received:**	NA

Polynuclear Aromatic Hydrocarbons (PAHs)

Sample Name	Method Blank	Units	mg/Kg (ppm)
Lab Code	JWG0201038-MB	Basis	NA
Test Notes		Basis Weight (#MSF)	100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Acenaphthene	3550	8270C	0 005	1100	1	10/31/2002	11/6/2002	U	
Acenaphthylene	3550	8270C	0 005	552	1	10/31/2002	11/6/2002	U	
Anthracene	3550	8270C	0 005	5530	1	10/31/2002	11/6 2002	U	
Benz(a)anthracene	3550	8270C	0 005	0 00635	1	10/31/2002	11/6/2002	U	
Benzo(a)pyrene	3550	8270C	0 005	0 000762	1	10/31/2002	11/6/2002	U	
Benzo(b)fluoranthene	3550	8270C	0 005	0 00318	1	10/31/2002	11/6/2002	U	
Benzo(g,h,i)perylene	3550	8270C	0 005	0 106	1	10/31/2002	11/6/2002	U	
Benzo(k)fluoranthene	3550	8270C	0 005	0 0452	1	10/31/2002	11/6/2002	U	
Carbazole	3550	8270C	0 005	0 123	1	10/31/2002	11/6/2002	U	
Chrysene	3550	8270C	0 005	0 0317	1	10/31/2002	11/6/2002	U	
Dibenz(a,h)anthracene	3550	8270C	0 005	0 00302	1	10/31/2002	11/6/2002	U	
Fluoranthene	3550	8270C	0 005	0 31	1	10/31/2002	11/6/2002	U	
Fluorene	3550	8270C	0 005	1430	1	10/31/2002	11/6/2002	U	
Indeno(1,2,3-cd)pyrene	3550	8270C	0 005	0 0252	1	10/31/2002	11/6/2002	U	
Naphthalene	3550	8270C	0 005	870	1	10/31/2002	11/6/2002	U	
Phenanthrene	3550	8270C	0 005	947	1	10/31/2002	11/6/2002	U	
Pyrene	3550	8270C	0 005	333	1	10/31/2002	11/6/2002	U	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration (All Food and Paperboard Types, Basis Weight Corrected)

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co	**Service Request:**	J2203459
Project:	RPTA Protocol Focused Sampling/81740	**Date Collected:**	9/27/2002
Sample Matrix:	Paper	**Date Received:**	10/18/2002

Lead

Sample Name	#2 Paper Machine Board Samples Composite	Units	mg/Kg (ppm)
Lab Code	J2203459-001	Basis	As Received
Test Notes		Basis Weight (#/MSF)	100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Lead	3050B	6020	2	2 14	1	10/25/2002	10/28/2002	2 1	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration
(All Food and Paperboard Types, Basis Weight Corrected)

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co.	**Service Request:**	J2203459
Project:	RPTA Protocol Focused Sampling/81740	**Date Collected:**	NA
Sample Matrix:	Paper	**Date Received:**	NA

Lead

Sample Name:	Method Blank	Units:	mg/Kg (ppm)
Lab Code:	J221025-MB	Basis:	NA
Test Notes:		Basis Weight (#/MSF):	100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Lead	3050B	6020	2	2 14	1	10/25/2002	10/28/2002	U	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration
(All Food and Paperboard Types; Basis Weight Corrected)

Client: Michigan Paperboard Project name: BPTA Focused Sampling

Date received: 10/18/03 1030 Service request number: J2203459

Received by: Cgf CUR completed by: Cgf

Cooler/Shipping Information:

Courier: ☐ CAS ☐ Client ☐ UPS ☐ Airborne ☑ FedEx ☐ Other (describe):

Type: ☐ Cooler ☑ Box ☐ Other (describe)

Cooler temperature: Identify the cooler and document the temperature blank or ice water measurement

Cooler ID	N/A				
Temp (°C)	N/A				
Temp taken from	☐ Temp blank ☐ Sample bottle	☐ Temp blank ☐ Sample bottle	☐ Temp blank ☐ Sample bottle	☐ Temp blank ☐ Sample bottle	☐ Temp blank ☐ Sample bottle
Temp measured with	☐ IR gun ☐ Thermometer (enter ID):	☐ IR gun ☐ Thermometer (enter ID):	☐ IR gun ☐ Thermometer (enter ID):	☐ IR gun ☐ Thermometer (enter ID):	☐ IR gun ☐ Thermometer (enter ID)

Other Information:

Any "NO" responses or discrepancies should be explained in the "Comments" section below or an NCM if so required. If an NCM was initiated, write the NCM number in the appropriate space.

CHECKLIST	YES	NO	NA	NCM #
1. Were custody seals on shipping container(s) intact? **If "No", NCM required.**		✓		
2. Were custody papers properly included with samples?	✓			
3. Were custody papers properly filled out (ink, signed, match labels)?	✓			
4. Did all bottles arrive in good condition (unbroken)?	✓			
5. Were all bottle labels complete (sample #, date, signed, analysis, preservatives)?	✓			
6. Did the sample labels agree with the chain of custody?	✓			
7. Were correct bottles used for the tests indicated?	✓			
8. Were proper sample preservation techniques indicated on the label?	✓			
9 Were samples received within holding times? **If "No," NCM required.**	✓			
10. Were all VOA vials checked for the presence of air bubbles? **If "No", NCM required.**			✓	
11. Were there air bubbles present in the VOA vials? **If "Yes", NCM required.**			✓	
12. Were samples in direct contact with wet ice? If "No," check one: ☐ NO ICE ☐ BLUE ICE			✓	
13. Was the cooler temperature less than 6°C?			✓	
14. Were sample pHs checked and recorded by Sample control? Checks are on reverse side of form. *NOTE: VOA samples are checked by laboratory analysts.*			✓	
15. Were the sample containers provided by CAS?		✓		
16. Were samples accepted into the laboratory?	✓			

Comments:

Columbia Analytical Services

Jacksonville Laboratory

Condition Upon Receipt - Sample pH

SR # J 2203459 Date 10/18/02 Initials CJB

A check mark in any space under the appropriate column headings for the selected sample indicates that the pH was checked and met the required pH criterion listed in the column heading

	Bottle Code																									
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
	40-mL	40-mL	125-mL	250-ml	500-mL	1-L	250-mL	1-L	2-oz	4-oz	8-oz	16-oz	5 g	100-mL	250-ml	500-ml	1-l	1 L	250-mL	500-mL	1 L	250 ml	250-mL	1 75-L	500 ml	Misc
Container	G	G	P	P	P	P	G	G	G	G	G	G	ENC	P	P	P	P	G	P	P	P	G	P	P	P	Misc
Pres.	HCl		HCl											Sodium Thiosulfate	H2SO4	H2SO4	H2SO4	H2SO4	HNO3	HNO3	HNO3	HNO3	NaOH	NaOH	ZnAcetate NaOH	
Req pH	<2	N/A	<2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<2	<2	<2	<2	<2	<2	<2	<2	>12	>12	>9	N/A
Sample #	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	~~28~~ 5
-001																										
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-038																										
-039																										
-040																										

For aqueous samples with multiple containers, only 1 bottle is checked for pH

NOTE VOA pH checks are performed by the analytical area, not sample control

Columbia Analytical Services INC.
An Employee Owned Company

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST

8540 Baycenter Rd. • Jacksonville, FL 32256 • (904) 739-2277 • 800-695-7222 x 06 • FAX (904) 739-2011

DATE 10/10/2002 PAGE 1 OF 1

PROJECT NAME Protocol
PROJECT # 81740
COMPANY/ADDRESS Michigan Paperboard Co.
79 East Fountain Street
Battle Creek, Michigan 49017 PHONE 269-963-4004
REPORT TO: Chad Longcore
SAMPLER'S SIGNATURE Jim Storkeng

ANALYSIS REQUEST

- ☐ RPTA – Baseline Sampling (Comprehensive List)
- ☒ RPTA Focused Sampling (Short List)
- ☐ Focused Sampling- Mill specific Compounds
- ☐ RPTA - Dairyman Standard (Swab Option)
- ☐ RPTA - Electronic Data

(List in Special Instructions) *Aqueous and Fatty Uses, Conditions of use C-G

J2203459

SAMPLE I.D.	DATE	TIME
#2 Paper machine Board Samples Composite		
9/23, 9/24, 9/25, 9/26, 9/27		

REMARKS

Average Basis Weight
Type of Product:
- ☒ Clay Coated/Uncoated
- ☐ Polycoated
- ☐ All Paperboard

SPECIAL INSTRUCTIONS/COMMENTS

Please list any mill specific compounds to be tested for:

RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

RECEIVED BY:
Signature Mitchel D Potter
Printed Name
Firm Fed Ex Ground
Date/Time 10/15/02

INVOICE INFORMATION:
P O # 81740
Bill To: Michigan Paperboard
79 East Fountain Street
Battle Creek, Michigan
49017

SAMPLE RECEIPT:
Shipping VIA: April Ferguson
Shipping to: 10/18/02
Condition. 10:30
Lab No:

Columbia Analytical Services INC
An Employee Owned Company

August 09, 2002

Service Request No J2202289

Barb Russell
Michigan Paperboard Co
79 E Fountain St
Battle Creek, MI 49017

RE: Test Report for
Project No --
Project Name RPTA Protocol Focused Sampling

Dear Barb Russell

Enclosed are the results of the samples(s) submitted to our laboratory on July 16, 2002 For your reference, these analyses have been assigned our service request number J2202289 Since no basis weight was given for the sample, a basis weight of 100 #/msf was used to calculate the allowable concentration
All analyses were performed according to our laboratory's quality assurance program NELAP requirements were met unless footnotes in each sample report indicate otherwise Estimates regarding the degree of uncertainty in measurements can be inferred from the accuracy limits in the laboratory QA manual However, these limits do not account for possible matrix effects All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc (CAS) is not responsible for use of less than the complete report Results apply only to the samples analyzed

Please call if you have any questions

Respectfully submitted,

Columbia Analytical Services, Inc.

Tom Kissinger
Project Manager

CAS Jacksonville is NELAC-accredited by the State of Florida (E82502) Other state accreditations include LA, AI 30759, MA, M-FL937, NC, 527, SC, 96021, WA, C278

8540 Baycenter Rd ▪ Jacksonville FL 32256 ▪ (904) 739-2277 ▪ Fax (904) 739-2011

Data Qualifiers

Inorganic Data

*	The result is an outlier See case narrative
#	The control limit criteria is not applicable See case narrative
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result
E	The result is an estimated amount because the value exceeded the instrument calibration range
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL
Z	Too many colonies were present (TNTC) The numeric value represents the filtration volume
i	The MRL/MDL has been elevated due to matrix interference
X	See case narrative

Metals Data

*	The result is an outlier See case narrative
#	The control limit criteria is not applicable See case narrative
B	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL
E	The reported value is estimated because of the presence of matrix interference
M	The duplicate injection precision was not met
N	The Matrix Spike sample recovery is not within control limits See case narrative
S	The reported value was determined by the Method of Standard Additions (MSA)
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance
i	The MRL/MDL has been elevated due to matrix interference
X	See case narrative
+	The correlation coefficient for the MSA is less than 0 995

Organic Data

*	The result is an outlier See case narrative
#	The control limit criteria is not applicable See case narrative
A	The tentatively identified compound is a suspected aldol-condensation product
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result

C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data

D The reported result is from a dilution.

E The result is an estimated amount because the value exceeded the instrument calibration range.

J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL

N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.

P The GC or HPLC confirmation criteria was exceeded The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides)

U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.

i The MRL/MDL has been elevated due to a chromatographic interference.

X See case narrative.

Petroleum Hydrocarbon Specific

F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.

L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard

H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard

O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard

Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.

Z The chromatographic fingerprint does not resemble a petroleum product.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Columbia Analytical Services

JACKSONVILLE LABORATORY
CONDITION UPON RECEIPT FORM

Client: Michigan Paperboard **Project name:** RPM Protocol
Date received: 7/16/02 11:30 **Service request number:** J2202289
Received by: Agf **CUR completed by:** Agf

Cooler/Shipping Information:

Courier: ☐ CAS ☐ Client ☐ UPS ☐ Airborne ☑ FedEx ☐ Other (describe):

Type: ☐ Cooler ☑ Box ☐ Other (describe)

Cooler temperature: Identify the cooler and document the temperature blank or ice water measurement

Cooler ID	N/A				
Temp (°C)	N/A				
Temp taken from	☐ Temp blank ☐ Sample bottle	☐ Temp blank ☐ Sample bottle	☐ Temp blank ☐ Sample bottle	☐ Temp blank ☐ Sample bottle	☐ Temp blank ☐ Sample bottle
Temp measured with	☐ IR gun ☐ Thermometer (enter ID):	☐ IR gun ☐ Thermometer (enter ID):	☐ IR gun ☐ Thermometer (enter ID):	☐ IR gun ☐ Thermometer (enter ID):	☐ IR gun ☐ Thermometer (enter ID):

Other Information:

Any "NO" responses or discrepancies should be explained in the "Comments" section below or an NCM if so required. If an NCM was initiated, write the NCM number in the appropriate space.

CHECKLIST	YES	NO	NA	NCM #
1. Were custody seals on shipping container(s) intact? **If "No", NCM required.**		✓		
2. Were custody papers properly included with samples?	✓			
3. Were custody papers properly filled out (ink, signed, match labels)?	✓			
4. Did all bottles arrive in good condition (unbroken)?	✓			
5. Were all bottle labels complete (sample #, date, signed, analysis, preservatives)?	✓			
6. Did the sample labels agree with the chain of custody?	✓			
7. Were correct bottles used for the tests indicated?	✓			
8. Were proper sample preservation techniques indicated on the label?	✓			
9. Were samples received within holding times? **If "No," NCM required.**	✓			
10. Were all VOA vials checked for the presence of air bubbles? **If "No", NCM required.**			✓	
11. Were there air bubbles present in the VOA vials? **If "Yes", NCM required.**			✓	
12. Were samples in direct contact with wet ice? If "No," check one: ☐ NO ICE ☐ BLUE ICE			✓	
13. Was the cooler temperature less than 6°C?			✓	
14. Were sample pHs checked and recorded by Sample control? Checks are on reverse side of form. *NOTE: VOA samples are checked by laboratory analysts.*			✓	
15. Were the sample containers provided by CAS?		✓		
16. Were samples accepted into the laboratory?	✓			

Comments:

Columbia Analytical Services

Jacksonville Laboratory
Condition Upon Receipt - Sample pH

SR # J 2202259 Date 7/16/02 Initials CBB

A check mark in any space under the appropriate column headings for the selected sample indicates that the pH was checked and met the required pH criterion listed in the column heading

	Bottle Code																									
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
	40-mL	40-mL	125-mL	250-mL	500-mL	1-L	250-mL	1-L	2-oz	4-oz	8-oz	16-oz	5 g	100-mL	250-mL	500-mL	1-L	1-L	250-mL	500-mL	1-L	250-mL	250-mL	1 75-L	500-mL	Misc
Container	G	G	P	P	P	P	G	G	G	G	G	G	ENC	P	P	P	P	G	P	P	P	G	P	P	P	Misc
Pres	HCl		HCl											Sodium Thiosulfate	H2SO4	H2SO4	H2SO4	H2SO4	HNO3	HNO3	HNO3	HNO3	NaOH	NaOH	ZnAcetate NaOH	
Req pH	<2	N/A	<2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<2	<2	<2	<2	<2	<2	<2	<2	>12	>12	>9	N/A
Sample #	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-001																										5
-002																										
-003																										
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-034																										
-035																										
-036																										
-037																										
-038																										
-039																										
-040																										

For aqueous samples with multiple containers, only 1 bottle is checked for pH
NOTE VOA pH checks are performed by the analytical area, not sample control

PURCHASE ORDER

THIS ORDER NO. MUST APPEAR ON ALL LABELS, PACKING LISTS AND INVOICES

80770

J2202289

Order Date: 7/09/02
Account No.: 00826-001 C120
Requisition No.:
Work Order No.:

Invoice To: ACCOUNTING DEPARTMENT
MICHIGAN PAPERBOARD COMPANY
79 EAST FOUNTAIN STREET
BATTLE CREEK, MI 49017-4198

To: COLUMBIA ANALYLITICAL SERVICE
8540 BAY CENTER RD.
JACKSONVILLE, FL 32256

Ship To Us At: CAPITAL AVENUE - DOCK C-7

ATTN: JIM HOSKING

CONFIRMING...PLEASE DO NOT DUPLICATE
PLEASE SEND MATERIAL DATA SAFETY SHEETS (IF APPLICABLE) FOR FIRST-TIME ORDERS
SALES AND USE TAX STATUS FOR USE IN INDUSTRIAL PROCESSING

Date Required At Plant	*Ship Via*	*F.O.B.*	*Terms*
AS SCHEDULED	VENDOR		NET 45

RECEIVING HOURS ARE 6:30 AM TO 3:30 PM

Item	*Quantity*	*Our Account No.*	*Description*	*Unit Price*
			018-555-5425	
1		030118525625	RPTA PROTOCOL FOCUSED SAMPLING (SHORT LIST) . COMPOSITE DATED 6/21, 6/22, 6/24, 6/25 . #1 P.M. BOARD SAMPLES	$448.00

REQUISITIONER

Columbia Analytical Services INC
An Employee Owned Company

Please Remit to: PO Box 1515
Tacoma, WA 98401-1515
(360) 577-7222 • Fax (360) 425-9096

T.I.N 91-2050686

INVOICE

Work Order No. J2202289
Customer No. 7270089

Attn: Accounts Payable
Michigan Paperboard Co.
79 E Fountain St.
Battle Creek, MI 49017

Invoice No. 717766
Date: 8/9/02
P.O. Number: 80770
Project No.: --
Project Name RPTA Protocol Focu

Report to: Barb Russell
Project Manager: Tom Kissinger
Samples submitted on: 7/16/02

Item Code	Description	Quantity Ordered	Unit Price	Extended Price
SVG-1A-29-BC	Polynuclear Aromatic Hydrocarbons, PAHs (EP	1	$190.00	$190.00
SVG-1A-01-BB	Semivolatile Organics (EPA 8270C)	1	$190.00	$190.00
MET-1A-07-CB	Total Metals (EPA 200.8)	1	$15.00	$15.00

Amount Due **$395.00**

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co	**Service Request:**	J2202289
Project:	RPTA Protocol Focused Sampling	**Date Collected:**	7/15/02
Sample Matrix:	Paper	**Date Received:**	7/16/02

Phthlate Esters

Sample Name:	Paper Composite	Units	mg/Kg (ppm)
Lab Code:	J2202289-001	Basis	As Received
Test Notes:	X	Basis Weight (#/MSF)	100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Bis(2-ethylhexyl) Phthalate	3550	8270C	5	11	10	7/17/02	7/31/02	U	
Butyl Benzyl Phthalate	3550	8270C	5	2880	10	7/17/02	7/31/02	U	
Di-n-butyl Phthalate	3550	8270C	5	1460	10	7/17/02	7/31/02	U	
Di-n-octyl Phthalate	3550	8270C	5	193	10	7/17/02	7/31/02	U	
Diethyl Phthalate	3550	8270C	5	3250	10	7/17/02	7/31/02	U	
Dimethyl Phthalate	3550	8270C	5	3250	10	7/17/02	7/31/02	U	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration
(All Food and Paperboard Types, Basis Weight Corrected)

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co	**Service Request:**	J2202289
Project:	RPTA Protocol Focused Sampling	**Date Collected:**	NA
Sample Matrix:	Paper	**Date Received:**	NA

Phthlate Esters

Sample Name	Method Blank	Units	mg/Kg (ppm)
Lab Code	JWG0200374-MB	Basis	NA
Test Notes		Basis Weight (#/MSF)	100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Bis(2-ethylhexyl) Phthalate	3550	8270C	0 5	11	1	7/17/02	7/31/02	U	
Butyl Benzyl Phthalate	3550	8270C	0 5	2880	1	7/17/02	7/31/02	U	
Di-n-butyl Phthalate	3550	8270C	0 5	1460	1	7/17/02	7/31/02	U	
Di-n-octyl Phthalate	3550	8270C	0 5	193	1	7 17/02	7/31/02	U	
Diethyl Phthalate	3550	8270C	0 5	3250	1	7/17 02	7/31/02	U	
Dimethyl Phthalate	3550	8270C	0 5	3250	1	7/17/02	7/31/02	U	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration (All Food and Paperboard Types, Basis Weight Corrected)

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co	**Service Request:**	J2202289
Project:	RPTA Protocol Focused Sampling	**Date Collected:**	7/15/02
Sample Matrix:	Paper	**Date Received:**	7/16/02

Polynuclear Aromatic Hydrocarbons (PAHs)

Sample Name	Paper Composite	Units	mg/Kg (ppm)
Lab Code	J2202289-001	Basis	As Received
Test Notes	a	Basis Weight (#MSF)	100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Acenaphthene	3550	8270C	0 05	1100	10	7/18/02	7/30/02	U	
Acenaphthylene	3550	8270C	0 05	552	10	7/18/02	7/30/02	U	
Anthracene	3550	8270C	0 05	5530	10	7/18/02	7/30/02	U	
Benz(a)anthracene	3550	8270C	0 05	0 00635	10	7/18/02	7/30/02	U	
Benzo(a)pyrene	3550	8270C	0 05	0 000762	10	7/18/02	7/30/02	U	
Benzo(b)fluoranthene	3550	8270C	0 05	0 00318	10	7/18/02	7/30/02	U	
Benzo(g,h,i)perylene	3550	8270C	0 05	0 106	10	7/18/02	7/30/02	U	
Benzo(k)fluoranthene	3550	8270C	0 05	0 0452	10	7/18/02	7/30/02	U	
Carbazole	3550	8270C	0 05	0 123	10	7/18 02	7/30/02	U	
Chrysene	3550	8270C	0 05	0 0317	10	7/18/02	7/30/02	U	
Dibenz(a,h)anthracene	3550	8270C	0 05	0 00302	10	7/18 02	7/30/02	U	
Fluoranthene	3550	8270C	0 05	0 31	10	7/18 02	7/30/02	U	
Fluorene	3550	8270C	0 05	1430	10	7/18 02	7/30/02	U	
Indeno(1,2,3-cd)pyrene	3550	8270C	0 05	0 0252	10	7/18 02	7/30/02	U	
Naphthalene	3550	8270C	0 05	870	10	7/18/02	7/30/02	U	
Phenanthrene	3550	8270C	0 05	947	10	7/18/02	7/30/02	U	
Pyrene	3550	8270C	0 05	333	10	7/18/02	7/30/02	U	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration
(All Food and Paperboard Types, Basis Weight Corrected)

a MRL elevated due to matrix interferences

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co	**Service Request:**	J2202289
Project:	RPTA Protocol Focused Sampling	**Date Collected:**	NA
Sample Matrix:	Paper	**Date Received:**	NA

Polynuclear Aromatic Hydrocarbons (PAHs)

Sample Name	Method Blank	Units	mg/Kg (ppm)
Lab Code	JWG0200373-MB	Basis	NA
Test Notes		Basis Weight (#MSF)	100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Acenaphthene	3550	8270C	0 005	1100	1	7/18 02	7/30/02	U	
Acenaphthylene	3550	8270C	0 005	552	1	7/18/02	7/30/02	U	
Anthracene	3550	8270C	0 005	5530	1	7/18/02	7/30/02	U	
Benz(a)anthracene	3550	8270C	0 005	0 00635	1	7/18/02	7/30/02	U	
Benzo(a)pyrene	3550	8270C	0 005	0 000762	1	7/18/02	7/30/02	U	
Benzo(b)fluoranthene	3550	8270C	0 005	0 00318	1	7/18/02	7/30/02	U	
Benzo(g,h,i)perylene	3550	8270C	0 005	0 106	1	7/18/02	7/30/02	U	
Benzo(k)fluoranthene	3550	8270C	0 005	0 0452	1	7/18/02	7/30/02	U	
Carbazole	3550	8270C	0 005	0 123	1	7/18/02	7/30/02	U	
Chrysene	3550	8270C	0 005	0 0317	1	7/18 02	7/30/02	U	
Dibenz(a,h)anthracene	3550	8270C	0 005	0 00302	1	7/18/02	7/30/02	U	
Fluoranthene	3550	8270C	0 005	0 31	1	7/18/02	7/30/02	U	
Fluorene	3550	8270C	0 005	1430	1	7/18/02	7/30/02	U	
Indeno(1,2,3-cd)pyrene	3550	8270C	0 005	0 0252	1	7 18/02	7/30/02	U	
Naphthalene	3550	8270C	0 005	870	1	7/18/02	7/30/02	U	
Phenanthrene	3550	8270C	0 005	947	1	7/18/02	7/30/02	U	
Pyrene	3550	8270C	0 005	333	1	7 18 02	7/30/02	U	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration (All Food and Paperboard Types, Basis Weight Corrected)

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co	**Service Request:**	J2202289
Project:	RPTA Protocol Focused Sampling	**Date Collected:**	7/15/02
Sample Matrix:	Paper	**Date Received:**	7/16/02

Lead

Sample Name	Paper Composite	Units	mg/Kg (ppm)
Lab Code	J2202289-001	Basis	As Received
Test Notes		Basis Weight (#/MSF)	100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Lead	3050B	6020	2	2 14	1	7/23 02	7/29/02	U	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration
(All Food and Paperboard Types, Basis Weight Corrected)

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co	**Service Request:**	J2202289
Project:	RPTA Protocol Focused Sampling	**Date Collected:**	NA
Sample Matrix:	Paper	**Date Received:**	NA

Lead

Sample Name	Method Blank	Units	mg/Kg (ppm)
Lab Code	J220723-MB	Basis	NA
Test Notes		Basis Weight (#/MSF)	100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Lead	3050B	6020	2	2 14	1	7 23 02	7/29/02	U	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration
(All Food and Paperboard Types, Basis Weight Corrected)

Columbia Analytical Services INC.
An Employee-Owned Company

August 09, 2002

Service Request No. J2202289

Barb Russell
Michigan Paperboard Co.
79 E Fountain St.
Battle Creek, MI 49017

RE: Test Report for
Project No.: –
Project Name: RPTA Protocol Focused Sampling

Dear Barb Russell:

Enclosed are the results of the samples(s) submitted to our laboratory on July 16, 2002. For your reference, these analyses have been assigned our service request number: J2202289.

All analyses were performed according to our laboratory's quality assurance program. NELAP requirements were met unless footnotes in each sample report indicate otherwise. Estimates regarding the degree of uncertainty in measurements can be inferred from the accuracy limits in the laboratory QA manual. However, these limits do not account for possible matrix effects. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions.

Respectfully submitted,

Columbia Analytical Services, Inc.

Tom Kissinger
Project Manager

CAS Jacksonville is NELAC-accredited by the State of Florida (E82502). Other state accreditations include: LA, AI 30759; MA, M-FL937; NC, 527; SC, 96021; WA, C278.

Data Qualifiers

Inorganic Data

*	The result is an outlier. See case narrative
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
E	The result is an estimated amount because the value exceeded the instrument calibration range
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL
Z	Too many colonies were present (TNTC). The numeric value represents the filtration volume
i	The MRL/MDL has been elevated due to matrix interference
X	See case narrative

Metals Data

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative
B	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
E	The reported value is estimated because of the presence of matrix interference.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits See case narrative
S	The reported value was determined by the Method of Standard Additions (MSA)
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL has been elevated due to matrix interference
X	See case narrative
+	The correlation coefficient for the MSA is less than 0.995

Organic Data

*	The result is an outlier. See case narrative
#	The control limit criteria is not applicable. See case narrative.
A	The tentatively identified compound is a suspected aldol-condensation product
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result

C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data

D The reported result is from a dilution.

E The result is an estimated amount because the value exceeded the instrument calibration range.

J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL

N The result is presumptive The analyte was tentatively identified, but a confirmation analysis was not performed.

P The GC or HPLC confirmation criteria was exceeded The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides)

U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL

i The MRL/MDL has been elevated due to a chromatographic interference

X See case narrative

Petroleum Hydrocarbon Specific

F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard

L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.

H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard

O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.

Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.

Z The chromatographic fingerprint does not resemble a petroleum product

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: RPTA Protocol Focused Sampling
Sample Matrix: Paper

Service Request: J2202289
Date Collected: 7/15/02
Date Received: 7/16/02

Phthlate Esters

Sample Name: Paper Composite
Lab Code: J2202289-001
Test Notes: X

Units. mg/Kg (ppm)
Basis As Received
Basis Weight (#/MSF): 100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Bis(2-ethylhexyl) Phthalate	3550	8270C	5	11	10	7/17/02	7/31/02	U	
Butyl Benzyl Phthalate	3550	8270C	5	2880	10	7/17/02	7/31/02	U	
Di-n-butyl Phthalate	3550	8270C	5	1460	10	7/17/02	7/31/02	U	
Di-n-octyl Phthalate	3550	8270C	5	193	10	7/17/02	7/31/02	U	
Diethyl Phthalate	3550	8270C	5	3250	10	7/17/02	7/31/02	U	
Dimethyl Phthalate	3550	8270C	5	3250	10	7/17/02	7/31/02	U	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration
(All Food and Paperboard Types, Basis Weight Corrected)

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: RPTA Protocol Focused Sampling
Sample Matrix: Paper

Service Request: J2202289
Date Collected: NA
Date Received: NA

Phthlate Esters

Sample Name: Method Blank
Lab Code: JWG0200374-MB
Test Notes:

Units: mg/Kg (ppm)
Basis: NA
Basis Weight (#/MSF): 100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Bis(2-ethylhexyl) Phthalate	3550	8270C	0.5	11	1	7/17/02	7/31/02	U	
Butyl Benzyl Phthalate	3550	8270C	0.5	2880	1	7/17/02	7/31/02	U	
Di-n-butyl Phthalate	3550	8270C	0.5	1460	1	7/17/02	7/31/02	U	
Di-n-octyl Phthalate	3550	8270C	0.5	193	1	7/17/02	7/31/02	U	
Diethyl Phthalate	3550	8270C	0.5	3250	1	7/17/02	7/31/02	U	
Dimethyl Phthalate	3550	8270C	0.5	3250	1	7/17/02	7/31/02	U	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration (All Food and Paperboard Types, Basis Weight Corrected)

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co
Project: RPTA Protocol Focused Sampling
Sample Matrix: Paper

Service Request: J2202289
Date Collected: 7/15/02
Date Received: 7/16/02

Polynuclear Aromatic Hydrocarbons (PAHs)

Sample Name: Paper Composite
Lab Code: J2202289-001
Test Notes: a

Units: mg/Kg (ppm)
Basis: As Received
Basis Weight (#MSF:) 100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Acenaphthene	3550	8270C	0.05	1100	10	7/18/02	7/30/02	U	
Acenaphthylene	3550	8270C	0.05	552	10	7/18/02	7/30/02	U	
Anthracene	3550	8270C	0.05	5530	10	7/18/02	7/30/02	U	
Benz(a)anthracene	3550	8270C	0.05	0.00635	10	7/18/02	7/30/02	U	
Benzo(a)pyrene	3550	8270C	0.05	0.000762	10	7/18/02	7/30/02	U	
Benzo(b)fluoranthene	3550	8270C	0.05	0.00318	10	7/18/02	7/30/02	U	
Benzo(g,h,i)perylene	3550	8270C	0.05	0.106	10	7/18/02	7/30/02	U	
Benzo(k)fluoranthene	3550	8270C	0.05	0.0452	10	7/18/02	7/30/02	U	
Carbazole	3550	8270C	0.05	0.123	10	7/18/02	7/30/02	U	
Chrysene	3550	8270C	0.05	0.0317	10	7/18/02	7/30/02	U	
Dibenz(a,h)anthracene	3550	8270C	0.05	0.00302	10	7/18/02	7/30/02	U	
Fluoranthene	3550	8270C	0.05	0.31	10	7/18/02	7/30/02	U	
Fluorene	3550	8270C	0.05	1430	10	7/18/02	7/30/02	U	
Indeno(1,2,3-cd)pyrene	3550	8270C	0.05	0.0252	10	7/18/02	7/30/02	U	
Naphthalene	3550	8270C	0.05	870	10	7/18/02	7/30/02	U	
Phenanthrene	3550	8270C	0.05	947	10	7/18/02	7/30/02	U	
Pyrene	3550	8270C	0.05	333	10	7/18/02	7/30/02	U	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration (All Food and Paperboard Types; Basis Weight Corrected)

a MRL elevated due to matrix interferences

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: RPTA Protocol Focused Sampling
Sample Matrix: Paper

Service Request: J2202289
Date Collected: NA
Date Received: NA

Polynuclear Aromatic Hydrocarbons (PAHs)

Sample Name: Method Blank
Lab Code: JWG0200373-MB
Test Notes:

Units: mg/Kg (ppm)
Basis: NA
Basis Weight (#MSF:) 100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Acenaphthene	3550	8270C	0.005	1100	1	7/18/02	7/30/02	U	
Acenaphthylene	3550	8270C	0.005	552	1	7/18/02	7/30/02	U	
Anthracene	3550	8270C	0.005	5530	1	7/18/02	7/30/02	U	
Benz(a)anthracene	3550	8270C	0.005	0.00635	1	7/18/02	7/30/02	U	
Benzo(a)pyrene	3550	8270C	0.005	0.000762	1	7/18/02	7/30/02	U	
Benzo(b)fluoranthene	3550	8270C	0.005	0.00318	1	7/18/02	7/30/02	U	
Benzo(g,h,i)perylene	3550	8270C	0.005	0.106	1	7/18/02	7/30/02	U	
Benzo(k)fluoranthene	3550	8270C	0.005	0.0452	1	7/18/02	7/30/02	U	
Carbazole	3550	8270C	0.005	0.123	1	7/18/02	7/30/02	U	
Chrysene	3550	8270C	0.005	0.0317	1	7/18/02	7/30/02	U	
Dibenz(a,h)anthracene	3550	8270C	0.005	0.00302	1	7/18/02	7/30/02	U	
Fluoranthene	3550	8270C	0.005	0.31	1	7/18/02	7/30/02	U	
Fluorene	3550	8270C	0.005	1430	1	7/18/02	7/30/02	U	
Indeno(1,2,3-cd)pyrene	3550	8270C	0.005	0.0252	1	7/18/02	7/30/02	U	
Naphthalene	3550	8270C	0.005	870	1	7/18/02	7/30/02	U	
Phenanthrene	3550	8270C	0.005	947	1	7/18/02	7/30/02	U	
Pyrene	3550	8270C	0.005	333	1	7/18/02	7/30/02	U	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration (All Food and Paperboard Types, Basis Weight Corrected)

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co
Project: RPTA Protocol Focused Sampling
Sample Matrix: Paper

Service Request: J2202289
Date Collected: 7/15/02
Date Received: 7/16/02

Lead

Sample Name: Paper Composite
Lab Code: J2202289-001
Test Notes:

Units: mg/Kg (ppm)
Basis: As Received
Basis Weight (#/MSF): 100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Lead	3050B	6020	2	2.14	1	7/23/02	7/29/02	U	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration
(All Food and Paperboard Types; Basis Weight Corrected)

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: RPTA Protocol Focused Sampling
Sample Matrix: Paper

Service Request: J2202289
Date Collected: NA
Date Received: NA

Lead

Sample Name: Method Blank
Lab Code: J220723-MB
Test Notes:

Units: mg/Kg (ppm)
Basis: NA
Basis Weight (#/MSF): 100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Lead	3050B	6020	2	2.14	1	7/23/02	7/29/02	U	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration
(All Food and Paperboard Types; Basis Weight Corrected)

Columbia Analytical Services INC.
An Employee Owned Company

Please Remit to: P.O. Box 1515
Tacoma, WA 98401-1515
(360) 577-7222 • Fax (360) 425-9096

INVOICE

T.I.N. 91-2050686

Work Order No. J2201309
Customer No. 7270089

Invoice No. 716818
Date: 5/6/02
P.O. Number: 79772
Project No.: --
Project Name: Protocol

Attn: Accounts Payable
Michigan Paperboard Co.
79 E Fountain St.
Battle Creek, MI 49017

Report to: Chad Longcore
Project Manager: Tom Kissinger
Samples submitted on: 4/22/02

Item Code	Description	Quantity Ordered	Unit Price	Extended Price
1A-07-CB-MET	Total Metals (EPA 200.8)	1	$15.00	$15.00
1A-01-BB-SVM	Semivolatile Organics (EPA 8270C)	1	$190.00	$190.00
1A-01-BC-SVM	Polynuclear Aromatic Hydrocarbons, PAHs (EP	1	$190.00	$190.00

Amount Due **$395.00**

Columbia Analytical Services INC
An Employee-Owned Company

May 06, 2002

Service Request No. J2201309

Chad Longcore
Michigan Paperboard Co
79 E Fountain St.
Battle Creek, MI 49017

RE: Test Report for
Project No.: --
Project Name: Protocol

Dear Chad Longcore:

Enclosed are the results of the samples(s) submitted to our laboratory on April 22, 2002. For your reference, these analyses have been assigned our service request number: J2201309. Since no basis weight was given for the sample, a basis weight of 100 #/msf was used to calculate the allowable concentration
All analyses were performed according to our laboratory's quality assurance program. NELAP requirements were met unless footnotes in each sample report indicate otherwise. Estimates regarding the degree of uncertainty in measurements can be inferred from the accuracy limits in the laboratory QA manual. However, these limits do not account for possible matrix effects. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions.

Respectfully submitted,

Columbia Analytical Services, Inc.

Tom Kissinger
Project Manager

CAS Jacksonville is NELAC-accredited by the State of Florida (E82502). Other state accreditations include: LA, AI 30759; MA, M-FL937, NC, 527; SC, 96021; WA, C278.

8540 Baycenter Rd. ▪ Jacksonville, FL 32256 ▪ (904) 739-2277 ▪ 800-695-7222 ▪ Fax (904) 739-2011

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co	**Service Request:**	J2201309
Project:	Protocol	**Date Collected:**	NA
Sample Matrix:	Paper	**Date Received:**	4/22/02

Polynuclear Aromatic Hydrocarbons (PAHs)

Sample Name:	Paper Composite	Units	mg/Kg (ppm)
Lab Code:	J2201309-001	Basis	As Received
Test Notes:		Basis Weight (#MSF)	100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Acenaphthene	3550	8270C	0 005	1100	1	4/24/02	5/1/02	U	
Acenaphthylene	3550	8270C	0.005	552	1	4/24 02	5/1/02	U	
Anthracene	3550	8270C	0 005	5530	1	4/24/02	5/1/02	U	
Benz(a)anthracene	3550	8270C	0 005	0 00635	1	4/24/02	5/1/02	U	
Benzo(a)pyrene	3550	8270C	0 005	0 000762	1	4/24 02	5/1/02	U	
Benzo(b)fluoranthene	3550	8270C	0 005	0 00318	1	4/24/02	5/1/02	U	
Benzo(g,h,i)perylene	3550	8270C	0.005	0 106	1	4/24 02	5/1/02	U	
Benzo(k)fluoranthene	3550	8270C	0.005	0 0452	1	4/24/02	5/1/02	U	
Carbazole	3550	8270C	0.005	0 123	1	4/24/02	5/1/02	U	
Chrysene	3550	8270C	0 005	0 0317	1	4/24/02	5/1/02	U	
Dibenz(a,h)anthracene	3550	8270C	0.005	0 00302	1	4/24/02	5/1/02	U	
Fluoranthene	3550	8270C	0 005	0 31	1	4/24/02	5/1/02	U	
Fluorene	3550	8270C	0.005	1430	1	4/24/02	5/1/02	U	
Indeno(1,2,3-cd)pyrene	3550	8270C	0 005	0 0252	1	4 24/02	5/1/02	U	
Naphthalene	3550	8270C	0 005	870	1	4/24 02	5/1/02	0 0061	
Phenanthrene	3550	8270C	0 005	947	1	4/24/02	5/1/02	0 021	
Pyrene	3550	8270C	0 005	333	1	4/24/02	5/1/02	0 013	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration
(All Food and Paperboard Types, Basis Weight Corrected)

Approved By: Tom D. Lissing Date 5/6/02

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co	**Service Request:**	J2201309
Project:	Protocol	**Date Collected:**	NA
Sample Matrix:	Paper	**Date Received:**	NA

Polynuclear Aromatic Hydrocarbons (PAHs)

Sample Name	Method Blank	Units	mg/Kg (ppm)
Lab Code	EX220158-MB	Basis	NA
Test Notes		Basis Weight (#MSF)	100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Acenaphthene	3550	8270C	0 005	1100	1	4/24/02	4/30/02	U	
Acenaphthylene	3550	8270C	0 005	552	1	4/24/02	4/30/02	U	
Anthracene	3550	8270C	0 005	5530	1	4/24/02	4/30/02	U	
Benz(a)anthracene	3550	8270C	0 005	0 00635	1	4 24/02	4/30/02	U	
Benzo(a)pyrene	3550	8270C	0 005	0 000762	1	4 24/02	4/30/02	U	
Benzo(b)fluoranthene	3550	8270C	0 005	0 00318	1	4/24/02	4/30/02	U	
Benzo(g,h,i)perylene	3550	8270C	0 005	0 106	1	4/24/02	4/30/02	U	
Benzo(k)fluoranthene	3550	8270C	0 005	0 0452	1	4/24/02	4/30/02	U	
Carbazole	3550	8270C	0 005	0 123	1	4 24/02	4/30/02	U	
Chrysene	3550	8270C	0 005	0 0317	1	4/24/02	4/30/02	U	
Dibenz(a,h)anthracene	3550	8270C	0 005	0 00302	1	4 24/02	4/30/02	U	
Fluoranthene	3550	8270C	0 005	0 31	1	4 24/02	4/30/02	U	
Fluorene	3550	8270C	0 005	1430	1	4/24/02	4/30/02	U	
Indeno(1,2,3-cd)pyrene	3550	8270C	0 005	0 0252	1	4/24/02	4/30/02	U	
Naphthalene	3550	8270C	0 005	870	1	4/24/02	4/30/02	U	
Phenanthrene	3550	8270C	0 005	947	1	4/24/02	4/30/02	U	
Pyrene	3550	8270C	0 005	333	1	4/24/02	4/30/02	U	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration (All Food and Paperboard Types, Basis Weight Corrected)

Approved By Tom D. Hussing Date 5/6/02

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co	**Service Request:**	J2201309
Project:	Protocol	**Date Collected:**	NA
Sample Matrix:	Paper	**Date Received:**	4/22/02

Phthlate Esters

Sample Name:	Paper Composite	Units	mg/Kg (ppm)
Lab Code	J2201309-001	Basis	As Received
Test Notes:		Basis Weight (#/MSF)	100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Bis(2-ethylhexyl) Phthalate	3550	8270C	0 5	11	1	4/24/02	5/1/02	2 2	
Butyl Benzyl Phthalate	3550	8270C	0 5	2880	1	4/24/02	5/1/02	5 3	
Di-n-butyl Phthalate	3550	8270C	0 5	1460	1	4 24/02	5/1/02	2 8	
Di-n-octyl Phthalate	3550	8270C	0 5	193	1	4/24 02	5/1/02	U	
Diethyl Phthalate	3550	8270C	0 5	3250	1	4 24/02	5/1/02	U	
Dimethyl Phthalate	3550	8270C	0 5	3250	1	4 24 02	5/1/02	U	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration
(All Food and Paperboard Types, Basis Weight Corrected)

Approved By. Tom D. Kissinger Date 5/6/02

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Ciient:	Michigan Paperboard Co	**Service Request:**	J2201309
Project:	Protocol	**Date Collected:**	NA
Sample Matrix:	Paper	**Date Received:**	NA

Phthlate Esters

Sample Name:	Method Blank	Units	mg/Kg (ppm)
Lab Code	EX220158-MB	Basis	NA
Test Notes:		Basis Weight (#/MSF)	100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Bis(2-ethylhexyl) Phthalate	3550	8270C	0 5	11	1	4/24/02	4/26/02	U	
Butyl Benzyl Phthalate	3550	8270C	0 5	2880	1	4 24 02	4/26/02	U	
Di-n-butyl Phthalate	3550	8270C	0 5	1460	1	4/24/02	4/26/02	U	
Di-n-octyl Phthalate	3550	8270C	0 5	193	1	4/24/02	4/26/02	U	
Diethyl Phthalate	3550	8270C	0 5	3250	1	4/24/02	4/26/02	U	
Dimethyl Phthalate	3550	8270C	0 5	3250	1	4 24/02	4/26/02	U	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration (All Food and Paperboard Types, Basis Weight Corrected)

Approved By Tom D. Kissinger Date 5/6/02

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co	**Service Request:**	J2201309
Project:	Protocol	**Date Collected:**	NA
Sample Matrix:	Paper	**Date Received:**	4 22/02

Lead

Sample Name:	Paper Composite	Units	mg/Kg (ppm)
Lab Code:	J2201309-001	Basis	As Received
Test Notes.		Basis Weight (#/MSF)	100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Lead	3050B	6020	2	2 14	1	4/24/02	4/26/02	1 9	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration
(All Food and Paperboard Types, Basis Weight Corrected)

U Not detected at or above the MRL

Approved By [signature] Date 5/6/02

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co	**Service Request:**	J2201309
Project:	Protocol	**Date Collected:**	NA
Sample Matrix:	Paper	**Date Received:**	NA

Lead

Sample Name	Method Blank	Units	mg/Kg (ppm)
Lab Code	J220424-MB	Basis	NA
Test Notes		Basis Weight (#/MSF)	100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Lead	3050B	6020	2	2 14	1	4/24/02	4/26/02	U	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration
(All Food and Paperboard Types, Basis Weight Corrected)

U Not detected at or above the MRL

Approved By Tom D. Lissing Date 5/6/02

Columbia Analytical Services

JACKSONVILLE LABORATORY
CONDITION UPON RECEIPT FORM

Client: Michigan Paperboard **Project name:** Protocol

Date received: 4/22/02 1100 **Service request number:** J2201309

Received by: CEB **CUR completed by:** CEB

Cooler/Shipping Information:

Courier: ☐ CAS ☐ Client ☐ UPS ☐ Airborne ☑ FedEx ☐ Other (describe):

Type: ☐ Cooler ☑ Box ☐ Other (describe)

Cooler temperature: Identify the cooler and document the temperature blank or ice water measurement

Cooler ID	N/A				
Temp (°C)	N/A				
Temp taken from	☐ Temp blank ☐ Sample bottle	☐ Temp blank ☐ Sample bottle	☐ Temp blank ☐ Sample bottle	☐ Temp blank ☐ Sample bottle	☐ Temp blank ☐ Sample bottle
Temp measured with	☐ IR gun ☐ Thermometer (enter ID):	☐ IR gun ☐ Thermometer (enter ID):	☐ IR gun ☐ Thermometer (enter ID):	☐ IR gun ☐ Thermometer (enter ID):	☐ IR gun ☐ Thermometer (enter ID):

Other Information:

Any "NO" responses or discrepancies should be explained in the "Comments" section below or an NCM if so required. If an NCM was initiated, write the NCM number in the appropriate space.

CHECKLIST	YES	NO	NA	NCM #
1. Were custody seals on shipping container(s) intact? **If "No", NCM required.**		✓		—
2. Were custody papers properly included with samples?	✓			
3. Were custody papers properly filled out (ink, signed, match labels)?	✓			
4. Did all bottles arrive in good condition (unbroken)?	✓			
5. Were all bottle labels complete (sample #, date, signed, analysis, preservatives)?	✓			
6. Did the sample labels agree with the chain of custody?	✓			
7. Were correct bottles used for the tests indicated?	✓			
8. Were proper sample preservation techniques indicated on the label?	✓			
9. Were samples received within holding times? **If "No," NCM required.**	✓			—
10. Were all VOA vials checked for the presence of air bubbles? **If "No", NCM required.**			✓	—
11. Were there air bubbles present in the VOA vials? **If "Yes", NCM required.**			✓	—
12. Were samples in direct contact with wet ice? If "No," check one: ☐ NO ICE ☐ BLUE ICE			✓	
13. Was the cooler temperature less than 6°C?			✓	
14. Were sample pHs checked and recorded by Sample control? Checks are on reverse side of form. *NOTE: VOA samples are checked by laboratory analysts.*			✓	
15. Were the sample containers provided by CAS?		✓		
16. Were samples accepted into the laboratory?	✓			

Comments:

Columbia Analytical Services

JACKSONVILLE LABORATORY
CONDITION UPON RECEIPT - SAMPLE pH

SR #: J2201309 **Date:** 4/22/02 **Initials:** [illegible]

A check mark (✓) in any space under the appropriate column headings for the selected sample indicates that the pH was checked and met the required pH criterion listed in the column heading.

	Bottle Code																	
	A	C	O	P	Q	R	S	T	U	V	W	X	Y	Z				
Container	40-mL	125-mL	250-mL	500-mL	1-L	1-L	250-mL	500-mL	1-L	250-mL	250-mL	1.75-L	500-mL					
	G	P	P	P	G	G	P	P	P	G	P	P	P					
Pres.	HCl	HNO_3	H_2SO_4	H_2SO_4	H_2SO_4	H_2SO_4	HNO_3	HNO_3	HNO_3	HNO_3	NaOH	NaOH	Zn Acetate NaOH					
Req. pH	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	> 12	>12	>9					
Sple #	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-001														4				
-002																		
-003																		
-004																		
-005																		
-006																		
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-035																		
-036																		
-037																		
-038																		
-039																		
-040																		
-041																		
-042																		

For aqueous samples with multiple containers, only 1 bottle is checked for pH
NOTE: VOA pH checks are performed by the analytical area, not sample control

Columbia Analytical Services
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CHAIN OF CUSTODY/LABORATORY ANALY: J2201309

8540 Baycenter Rd. • Jacksonville, FL 32256 • (904) 739-2277 • 800-695-7222 x 06 • FAX (904) 739-2011

DATE 4/9/2002 PAGE 1 OF 1

PROJECT NAME Protocol
PROJECT #
COMPANY/ADDRESS Michigan Paperboard Company
79 East Fountain Street
Battle Creek, Michigan 49017 PHONE 616-963-4004
REPORT TO: Chad Longcore
SAMPLER'S SIGNATURE Jim Hoking

ANALYSIS REQUEST

- ☐ RPTA – Baseline Sampling (Comprehensive List)
- ☒ RPTA Focused Sampling (Short List)
- ☐ Focused Sampling- Mill specific Compounds
- ☐ RPTA – FDA Extractions (Two Conditions)*
- ☐ RPTA - Dairyman Standard (Swab Option)
- ☐ RPTA - Electronic Data

(List in Special Instructions) *Aqueous and Fatty Uses, Conditions of use C-G

SAMPLE I.D.	DATE	TIME
#2 Paper Machine Board Samples		
Composite dates		
3/25, 3/26, 3/27, 3/28		

REMARKS

Average Basis Weight
Type of Product:
- ☒ Clay Coated/Uncoated
- ☐ Polycoated
- ☐ All Paperboard

SPECIAL INSTRUCTIONS/COMMENTS

Please list any mill specific compounds to be tested for:

RELINQUISHED BY:	RECEIVED BY:
Signature	Signature
Printed Name	Printed Name
Firm	Firm
Date/Time	Date/Time

INVOICE INFORMATION:
P.O.#
Bill To: Michigan Paperboard Co.
79 East Fountain Street
Battle Creek, Michigan
49017

SAMPLE RECEIPT:
Shipping VIA:
Shipping to
Condition:
Lab No:

Columbia Analytical Services INC
An Employee-Owned Company

Please Remit to: P.O. Box 1515
Tacoma, WA 98401-1515
(360) 577-7222 • Fax (360) 425-9096

T.I.N. 91-2050686

INVOICE

Work Order No. J2200249
Customer No. 7270089

Invoice No. 716059
Date: 3/1/02

P.O. Number: 78839
Project No. 78839*
Project Name: Protocol
Matrix: Paperboard
Report to: Chad Longcore
Project Manager: Tom Kissinger
Samples submitted on: 1/25/02

Attn: Accounts Payable
Michigan Paperboard Co.
79 E Fountain St.
Battle Creek, MI 49017

Item Code	Description	Quantity Ordered	Unit Price	Extended Price
200/7000 series	Total Lead	1	$15.00	$15.00
8270C SIMs	PAH/Phthalates	1	$380.00	$380.00

Amount Due $395.00

February 28, 2002

Service Request No. J2200249

Chad Longcore
Michigan Paperboard Co.
79 E Fountain St.
Battle Creek, MI 49017

RE: Project No.: 78839
Project Name: Protocol

Dear Chad Longcore:

Enclosed are the results of the samples(s) submitted to our laboratory on January 25, 2002. For your reference, these analyses have been assigned our service request number: J2200249. Since no basis weight was given for the sample, a basis weight of 100 #/msf was used to calculate the allowable concentration.
All analyses were performed according to our laboratory's quality assurance program. All results are intended to be considered in the entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions.

Respectfully submitted,

Columbia Analytical Services, Inc.

Tom Kissinger
Project Manager

CAS Jacksonville is NELAC-accredited by the State of Florida (E82502). Other state accreditations include: LA, AI 30759; MA, M-FL937; NH, 2942; NC, 527; SC, 96021; WA, C278

8540 Baycenter Rd. ▪ Jacksonville, FL 32256 ▪ (904) 739-2277 ▪ 800-695-7222 ▪ Fax (904) 739-2011

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co	**Service Request:**	J2200249
Project:	Protocol/78839	**Date Collected:**	NA
Sample Matrix:	Paperboard	**Date Received:**	NA

Lead

Sample Name	Method Blank	Units	mg/Kg (ppm)
Lab Code	J220207-MB	Basis	NA
Test Notes		Basis Weight (#/MSF)	100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Lead	3050B	6020	2	2.14	1	2/7/02	2/23/02	U	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration (All Food and Paperboard Types, Basis Weight Corrected)

U Not detected at or above the MRL

Approved By Tom D. Hissinger Date 2/28/02

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co	**Service Request:**	J2200249
Project:	Protocol/78839	**Date Collected:**	NA
Sample Matrix:	Paperboard	**Date Received:**	1/25/02

Lead

Sample Name	Paper Composite	Units	mg/Kg (ppm)
Lab Code	J2200249-001	Basis	As Received
Test Notes		Basis Weight (#/MSF)	100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Lead	3050B	6020	2	2 14	1	2/7/02	2/23/02	U	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration
(All Food and Paperboard Types, Basis Weight Corrected)

U Not detected at or above the MRL

Approved By Tamed. Kissinger Date 2/28/02

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co.	**Service Request:**	J2200249
Project:	Protocol/78839	**Date Collected:**	NA
Sample Matrix:	Paperboard	**Date Received:**	1/25/02

Base Neutral/Acid Semivolatile Organic Compounds

Sample Name:	Paper Composite	Units:	mg/Kg (ppm)
Lab Code:	J2200249-001	Basis:	As Received
Test Notes:	b	Basis Weight (#/MSF):	100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Benzidine	3550	8270C	5	0.0000107	10	2/5/02	2/8/02	U	
Benzoic Acid	3550	8270C	50	9880	10	2/5/02	2/8/02	U	
Benzyl alcohol	3550	8270C	5	2470	10	2/5/02	2/8/02	U	
Biphenyl	3550	8270C	5	123	10	2/5/02	2/8/02	U	a
Bis(2-ethylhexyl) Phthalate	3550	8270C	5	11	10	2/5/02	2/8/02	U	
Butyl Benzyl Phthalate	3550	8270C	5	2880	10	2/5/02	2/8/02	U	
4-Chloro-3-methylphenol	3550	8270C	10	45.2	10	2/5/02	2/8/02	U	
4-Chloroaniline	3550	8270C	5	9.88	10	2/5/02	2/8/02	U	
2-Chloronaphthalene	3550	8270C	5	198	10	2/5/02	2/8/02	U	
2-Chlorophenol	3550	8270C	5	12.3	10	2/5/02	2/8/02	U	
Di-n-butyl Phthalate	3550	8270C	5	1460	10	2/5/02	2/8/02	U	
Di-n-octyl Phthalate	3550	8270C	5	193	10	2/5/02	2/8/02	U	
Dibenzofuran	3550	8270C	5	9.88	10	2/5/02	2/8/02	U	
3,3'-Dichlorobenzidine	3550	8270C	10	0.00549	10	2/5/02	2/8/02	U	
2,4-Dichlorophenol	3550	8270C	5	7.41	10	2/5/02	2/8/02	U	
Diethyl Phthalate	3550	8270C	5	3250	10	2/5/02	2/8/02	U	
Dimethyl Phthalate	3550	8270C	5	3250	10	2/5/02	2/8/02	U	
2,4-Dimethylphenol	3550	8270C	5	49.4	10	2/5/02	2/8/02	U	
2-Methyl-4,6-dinitrophenol	3550	8270C	10	0.173	10	2/5/02	2/8/02	U	
2,4-Dinitrophenol	3550	8270C	10	0.741	10	2/5/02	2/8/02	U	
2,4-Dinitrotoluene	3550	8270C	5	0.0705	10	2/5/02	2/8/02	U	
2,6-Dinitrotoluene	3550	8270C	5	0.00363	10	2/5/02	2/8/02	U	
Hexachlorobenzene	3550	8270C	5	0.00154	10	2/5/02	2/8/02	U	
Hexachlorobutadiene	3550	8270C	5	0.0317	10	2/5/02	2/8/02	U	
Hexachlorocyclopentadiene	3550	8270C	5	17.3	10	2/5/02	2/8/02	U	
Hexachloroethane	3550	8270C	5	0.176	10	2/5/02	2/8/02	U	
Isophorone	3550	8270C	5	2.47	10	2/5/02	2/8/02	U	
1-Methylnaphthalene	3550	8270C	5	98.8	10	2/5/02	2/8/02	U	a
2-Methylnaphthalene	3550	8270C	5	98.8	10	2/5/02	2/8/02	U	
2-Methyphenol	3550	8270C	5	123	10	2/5/02	2/8/02	U	
3- & 4-Methyphenol	3550	8270C	5	123	10	2/5/02	2/8/02	U	
N-Nitrosodi-n-propylamine	3550	8270C	5	0.000353	10	2/5/02	2/8/02	U	
N-Nitrosodimethylamine	3550	8270C	5	0.0000484	10	2/5/02	2/8/02	U	
N-Nitrosodiphenylamine	3550	8270C	5	0.504	10	2/5/02	2/8/02	U	
2-Nitroaniline	3550	8270C	5	26.4	10	2/5/02	2/8/02	U	
3-Nitroaniline	3550	8270C	5	22.2	10	2/5/02	2/8/02	U	
4-Nitroaniline	3550	8270C	5	18.5	10	2/5/02	2/8/02	U	
Nitrobenzene	3550	8270C	5	1.23	10	2/5/02	2/8/02	U	
2-Nitrophenol	3550	8270C	5	8.25	10	2/5/02	2/8/02	U	
4-Nitrophenol	3550	8270C	10	6.17	10	2/5/02	2/8/02	U	
2, 2'-Oxybis(1-chloropropane)	3550	8270C	10	5.93	10	2/5/02	2/8/02	U	
Pentachlorophenol	3550	8270C	10	0.0206	10	2/5/02	2/8/02	U	
Phenol	3550	8270C	5	1480	10	2/5/02	2/8/02	U	
Pyridine	3550	8270C	5	2.47	10	2/5/02	2/8/02	U	
2,3,4,6-Tetrachlorophenol*	3550	8270C	5	74.1	10	2/5/02	2/8/02	U	a
1,2,4-Trichlorobenzene	3550	8270C	5	3.21	10	2/5/02	2/8/02	U	
2,4,5-Trichlorophenol	3550	8270C	5	247	10	2/5/02	2/8/02	U	
2,4,6-Trichlorophenol	3550	8270C	5	0.224	10	2/5/02	2/8/02	U	
Bis(2-chloroethoxy)methane	3550	8270C	5	1.6	10	2/5/02	2/8/02	U	
Bis(2-chloroethyl) Ether	3550	8270C	5	0.00224	10	2/5/02	2/8/02	U	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration (All Food and Paperboard Types, Basis Weight Corrected)

a Search for as a tentatively identified compound.

b MRL elevated due to matrix interferences. Dilution factor 1:10.

Approved By: Tom D. Hissing Date: 2/28/02

COLUMBIA ANALYTICAL SERVICES, INC

Analytical Report

Client:	Michigan Paperboard Co	**Service Request:**	J2200249
Project:	Protocol 78839	**Date Collected:**	NA
Sample Matrix:	Paperboard	**Date Received:**	NA

Base Neutral/Acid Semivolatile Organic Compounds

Sample Name	Method Blank	Units	mg Kg (ppm)
Lab Code	FX220054-MB	Basis	NA
Test Notes		Basis Weight (#/MSF)	100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Benzidine	3550	8270C	0 5	0 0000107	1	2 5/02	2 8/02	U	
Benzoic Acid	3550	8270C	5	9880	1	2 5 02	2/8/02	U	
Benzyl alcohol	3550	8270C	0 5	2470	1	2 5 02	2 8/02	U	
Biphenyl	3550	8270C	0 5	123	1	2 5 02	2 8/02	U	a
Bis(2 ethylhexyl) Phthalate	3550	8270C	0 5	11	1	2 5 02	2 8/02	U	
Butyl Benzyl Phthalate	3550	8270C	0 5	2880	1	2 5 02	2 8 02	U	
4-Chloro 3-methylphenol	3550	8270C	1	45 2	1	2 5 02	2 8 02	U	
4-Chloroaniline	3550	8270C	0 5	9 88	1	2 5/02	2 8 02	U	
2-Chloronaphthalene	3550	8270C	0 5	198	1	2 5 02	2 8 02	U	
2-Chlorophenol	3550	8270C	0 5	12 3	1	2 5 02	2 8 02	U	
Di-n-butyl Phthalate	3550	8270C	0 5	1460	1	2 5 02	2 8 02	U	
Di-n octyl Phthalate	3550	8270C	0 5	193	1	2 5 02	2 8 02	U	
Dibenzofuran	3550	8270C	0 5	9 88	1	2 5/02	2 8 02	U	
3 3 -Dichlorobenzidine	3550	8270C	1	0 00549	1	2 5 02	2 8 02	U	
2 4 Dichlorophenol	3550	8270C	0 5	7 41	1	2 5/02	2 8/02	U	
Diethyl Phthalate	3550	8270C	0 5	3250	1	2 5/02	2 8 02	U	
Dimethyl Phthalate	3550	8270C	0 5	3250	1	2 5 02	2 8 02	U	
2,4 Dimethylphenol	3550	8270C	0 5	49 4	1	2/5/02	2 8/02	U	
2-Methyl 4 6-dinitrophenol	3550	8270C	1	0 173	1	2 5/02	2 8/02	U	
2,4-Dinitrophenol	3550	8270C	1	0 741	1	2 5/02	2 8/02	U	
2,4-Dinitrotoluene	3550	8270C	0 5	0 0705	1	2 5/02	2 8/02	U	
2,6-Dinitrotoluene	3550	8270C	0 5	0 00363	1	2 5 02	2 8/02	U	
Hexachlorobenzene	3550	8270C	0 5	0 00154	1	2 5 02	2 8/02	U	
Hexachlorobutadiene	3550	8270C	0 5	0 0317	1	2 5 02	2 8 02	U	
Hexachlorocyclopentadiene	3550	8270C	0 5	17 3	1	2 5 02	2 8 02	U	
Hexachloroethane	3550	8270C	0 5	0 176	1	2 5 02	2 8 02	U	
Isophorone	3550	8270C	0 5	2 47	1	2 5 02	2 8 02	U	
1-Methylnaphthalene	3550	8270C	0 5	98 8	1	2 5 02	2 8 02	U	a
2-Methylnaphthalene	3550	8270C	0 5	98 8	1	2 5 02	2 8/02	U	
2 Methyphenol	3550	8270C	0 5	123	1	2 5 02	2/8 02	U	
3- & 4 Methyphenol	3550	8270C	0 5	123	1	2 5 02	2 8 02	U	
N-Nitrosodi-n-propylamine	3550	8270C	0 5	0 000353	1	2 5 02	2 8 02	U	
N Nitrosodimethylamine	3550	8270C	0 5	0 0000484	1	2 5/02	2 8 02	U	
N-Nitrosodiphenylamine	3550	8270C	0 5	0 504	1	2 5/02	2 8 02	U	
2-Nitroaniline	3550	8270C	0 5	26 4	1	2 5/02	2 8 02	U	
3-Nitroaniline	3550	8270C	0 5	22 2	1	2 5 02	2 8 02	U	
4-Nitroaniline	3550	8270C	0 5	18 5	1	2 5 02	2 8 02	U	
Nitrobenzene	3550	8270C	0 5	1 23	1	2 5 02	2 8 02	U	
2-Nitrophenol	3550	8270C	0 5	8 25	1	2 5 02	2 8 02	U	
4-Nitrophenol	3550	8270C	1	6 17	1	2 5 02	2 8 02	U	
2, 2'-Oxybis(1-chloropropane)	3550	8270C	1	5 93	1	2 5 02	2 8 02	U	
Pentachlorophenol	3550	8270C	1	0 0206	1	2 5 02	2 8 02	U	
Phenol	3550	8270C	0 5	1480	1	2 5 02	2 8 02	U	
Pyridine	3550	8270C	0 5	2 47	1	2 5 02	2 8 02	U	
2 3 4 6-Tetrachlorophenol*	3550	8270C	0 5	74 1	1	2 5 02	2 8/02	U	a
1,2,4 Trichlorobenzene	3550	8270C	0 5	3 21	1	2 5 02	2 8 02	U	
2,4,5-Trichlorophenol	3550	8270C	0 5	247	1	2 5 02	2 8/02	U	
2 4 6 Trichlorophenol	3550	8270C	0 5	0 224	1	2 5 02	2 8 02	U	
Bis(2-chloroethoxy)methane	3550	8270C	0 5	1 6	1	2 5 02	2 8 02	U	
Bis(2-chloroethyl) Ether	3550	8270C	0 5	0 00224	1	2 5 02	2 8 02	U	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration (All Food and Paperboard Types, Basis Weight Corrected)

a Search for as a tentatively identified compound

Approved By Tom D. Hissing Date 2/28/02

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co	**Service Request:**	J2200249
Project:	Protocol/78839	**Date Collected:**	NA
Sample Matrix:	Paperboard	**Date Received:**	1/25/02

Polynuclear Aromatic Hydrocarbons (PAHs)

Sample Name:	Paper Composite	Units:	mg/Kg (ppm)
Lab Code:	J2200249-001	Basis:	As Received
Test Notes:	a	Basis Weight (#MSF:)	100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Acenaphthene	3550	8270C	0.05	1100	10	2/5/02	2/7/02	U	
Acenaphthylene	3550	8270C	0.05	552	10	2/5/02	2/7/02	U	
Anthracene	3550	8270C	0.05	5530	10	2/5/02	2/7/02	U	
Benz(a)anthracene	3550	8270C	0.05	0.00635	10	2/5/02	2/7/02	U	
Benzo(a)pyrene	3550	8270C	0.05	0.000762	10	2/5/02	2/7/02	U	
Benzo(b)fluoranthene	3550	8270C	0.05	0.00318	10	2/5/02	2/7/02	U	
Benzo(g,h,i)perylene	3550	8270C	0.05	0.106	10	2/5/02	2/7/02	U	
Benzo(k)fluoranthene	3550	8270C	0.05	0.0452	10	2/5/02	2/7/02	U	
Carbazole	3550	8270C	0.05	0.123	10	2/5/02	2/7/02	U	
Chrysene	3550	8270C	0.05	0.0317	10	2/5/02	2/7/02	U	
Dibenz(a,h)anthracene	3550	8270C	0.05	0.00302	10	2/5/02	2/7/02	U	
Fluoranthene	3550	8270C	0.05	0.31	10	2/5/02	2/7/02	U	
Fluorene	3550	8270C	0.05	1430	10	2/5/02	2/7/02	U	
Indeno(1,2,3-cd)pyrene	3550	8270C	0.05	0.0252	10	2/5/02	2/7/02	U	
Naphthalene	3550	8270C	0.05	870	10	2/5/02	2/7/02	U	
Phenanthrene	3550	8270C	0.05	947	10	2/5/02	2/7/02	U	
Pyrene	3550	8270C	0.05	333	10	2/5/02	2/7/02	U	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration
(All Food and Paperboard Types; Basis Weight Corrected)

a MRL elevated due to matrix interferences. Dilution factor 1:10.

Approved By: Tom D. Kissinger Date: 2/28/02

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co	**Service Request:**	J2200249
Project:	Protocol/78839	**Date Collected:**	NA
Sample Matrix:	Paperboard	**Date Received:**	NA

Polynuclear Aromatic Hydrocarbons (PAHs)

Sample Name:	Method Blank	Units:	mg/Kg (ppm)
Lab Code:	EX220054-MB	Basis:	NA
Test Notes:		Basis Weight (#MSF:)	100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Acenaphthene	3550	8270C	0.005	1100	1	2/5/02	2/7/02	U	
Acenaphthylene	3550	8270C	0.005	552	1	2/5/02	2/7/02	U	
Anthracene	3550	8270C	0.005	5530	1	2/5/02	2/7/02	U	
Benz(a)anthracene	3550	8270C	0.005	0.00635	1	2/5/02	2/7/02	U	
Benzo(a)pyrene	3550	8270C	0.005	0.000762	1	2/5/02	2/7/02	U	
Benzo(b)fluoranthene	3550	8270C	0.005	0.00318	1	2/5/02	2/7/02	U	
Benzo(g,h,i)perylene	3550	8270C	0.005	0.106	1	2/5/02	2/7/02	U	
Benzo(k)fluoranthene	3550	8270C	0.005	0.0452	1	2/5/02	2/7/02	U	
Carbazole	3550	8270C	0.005	0.123	1	2/5/02	2/7/02	U	
Chrysene	3550	8270C	0.005	0.0317	1	2/5/02	2/7/02	U	
Dibenz(a,h)anthracene	3550	8270C	0.005	0.00302	1	2/5/02	2/7/02	U	
Fluoranthene	3550	8270C	0.005	0.31	1	2/5/02	2/7/02	U	
Fluorene	3550	8270C	0.005	1430	1	2/5/02	2/7/02	U	
Indeno(1,2,3-cd)pyrene	3550	8270C	0.005	0.0252	1	2/5/02	2/7/02	U	
Naphthalene	3550	8270C	0.005	870	1	2/5/02	2/7/02	U	
Phenanthrene	3550	8270C	0.005	947	1	2/5/02	2/7/02	U	
Pyrene	3550	8270C	0.005	333	1	2/5/02	2/7/02	U	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration (All Food and Paperboard Types; Basis Weight Corrected)

Approved By: Tom D. Hussing Date: 2/28/02

Cooler Receipt and Preservation Form

Project/Client: Protocol/Michigan Paperboard Co **SR Number:** J2200249

Cooler received on 1/25/02 by DD

Courier CAS ☐ UPS ☒ FEDEX ☐

CLIENT ☐ CD&L ☐ OTHER ☐

	Yes	No	N/A
1 Were custody seals on the outside of the cooler?	☐	☒	☐
2 Were custody seals intact?	☐	☐	☒
3 Were custody papers properly filled out(ink, singed, ect)?	☒	☐	☐
4 Did all bottles arrive in good condition(unbroken)?	☒	☐	☐
5 Did any VOA vials contain significant air bubbles?	☐	☐	☒
6 Were ice or ice packs present?	☐	☐	☒
7 Did all samples arrive within appropriate holding times?	☒	☐	☐
8 Where did the bottles originate? CAS/JAX	☐	CLIENT	☒

9 Temperature of cooler(s) upon receipt/within 0-6C?

	Temp.	Yes	No	N/A		Temp.	Yes	No	N/A
Cooler 1	NA	☐	☐	☒	Cooler 3		☐	☐	☐
Cooler 2		☐	☐	☐	Cooler 4		☐	☐	☐

Date/Time Temperature Taken 1/25/02 11 00 **If No/NA, Explain** Paper sample

Thermometer ID 2618380101-0015 ☐ Temp Blank ☐ Cooler Temp ☐

15-078-J-4 ☐ Sample Bottle ☐ IR Gun ☐

If out of temperature, client approval to run samples _____

Cooler Breakdown Date 1/25/02 By DD

	Yes	No	N/A
1 Were all the bottle labels complete(i e analysis. preservation, ect)	☒	☐	☐
2 Did all bottle labels and tags agree with custody papers?	☒	☐	☐
3 Were correct containers used for the test indicated?	☒	☐	☐

4 Air samples Cassettes/Tubes Intact ☐ Tedlar Bags Inflated ☐

Canisters Pressurized ☐ NA ☒

Explain any discrepancies _____

		Yes	No	Sample ID	Reagent	Volume Added
pH	Reagent					
>12	NaOH					
>9	NaOH+ZnAc					
<2	HNO3					
<2	H2SO4					
<2	HCl					
5-9*	P/PCB (608 Only)					

* If pH adjustment is required, use NaOH/or H2SO4 PM OK to adjust pH_____

YES= All samples OK NO=Samples were preserved at lab as listed

VOC Vial pH Verification(Tested after Analysis) Following Samples Exhibited pH >2				

Other Comments _____

Columbia Analytical Services INC
An Employee-Owned Company

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST

8540 Baycenter Rd. • Jacksonville, FL 32256 • (904) 739-2277 • 800-695-7222 x 06 • FAX (904) 739-2011

DATE 01/23/2002 PAGE 1 OF 1

PROJECT NAME PROTOCOL
PROJECT # 78839
COMPANY/ADDRESS MICHIGAN PAPERBOARD COMPANY
79 EAST FOUNTAIN STREET
BATTLE CREEK, MICHIGAN 49017 PHONE 1-616-963-4004
REPORT TO: CHAD LONGCORE
SAMPLER'S SIGNATURE Jim Stocking

ANALYSIS REQUEST

- ☐ RPTA – Baseline Sampling (Comprehensive List)
- ☒ RPTA Focused Sampling (Short List)
- ☐ Focused Sampling- Mill specific Compounds
- ☐ RPTA – FDA Extractions (Two Conditions)*
- ☐ RPTA - Dairyman Standard (Swab Option)
- ☐ RPTA - Electronic Data

(List In Special Instructions) *Aqueous and Fatty Uses, Conditions of use C-G

SAMPLE I.D.	DATE	TIME
#1 PAPER MACHINE		
BOARD SAMPLES		
12/17 - 12/21		
YR. 2001		

REMARKS

Average Basis Weight
Type of Product:
- ☒ Clay Coated/Uncoated
- ☐ Polycoated
- ☐ All Paperboard

SPECIAL INSTRUCTIONS/COMMENTS

Please list any mill specific compounds to be tested for:

RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

RECEIVED BY:
Signature DAVID DICKIE
Printed Name CTS
Firm 1/25/02 1100
Date/Time

INVOICE INFORMATION:
P.O.# 78839
Bill To: MICHIGAN PAPERBOARD COMPANY
79 EAST FOUNTAIN STREET
BATTLECREEK, MICHIGAN 49017

SAMPLE RECEIPT:
Shipping VIA:
Shipping to:
Condition:
Lab No:

DISTRIBUTION: WHITE

PURCHASE ORDER

THIS ORDER NO. MUST APPEAR ON ALL LABELS, PACKING LISTS AND INVOICES

78839

Order Date: 1/18/02
Account No.: 00826-001 C120
Requisition No.:
Work Order No.:

Invoice To: ACCOUNTING DEPARTMENT
MICHIGAN PAPERBOARD COMPANY
79 EAST FOUNTAIN STREET
BATTLE CREEK, MI 49017-4198

To: COLUMBIA ANALYLITICAL SERVICE
8540 BAY CENTER RD.
JACKSONVILLE, FL 32256

Ship To Us At: CAPITAL AVENUE - DOCK C-7

ATTN: JIM HOSKING

CONFIRMING...PLEASE DO NOT DUPLICATE
PLEASE SEND MATERIAL DATA SAFETY SHEETS (IF APPLICABLE) FOR FIRST-TIME ORDERS
SALES AND USE TAX STATUS FOR USE IN INDUSTRIAL PROCESSING

Date Required At Plant	*Ship Via*	*F.O.B.*	*Terms*
AS SCHEDULED	VENDOR		NET 45

RECEIVING HOURS ARE 6:30 AM TO 3:30 PM

Item	*Quantity*	*Our Account No.*	*Description*	*Unit Price*
			099-555-5425	
1		030199525625	COMPOSITE SAMPLE RPTA - PROTOCOL PERIODIC FOCUSED ANALYSIS COMPOSITE DATED 12/17, 12/18, 12/19 12/20, 12/21	$448.00

REQUISITIONER

Michigan Paperboard Company

12/17/01

Machine #1

11:30 am

Grade: 20 pt

Reel #: 765

Basis Wgt: 96.0

Michigan Paperboard Company

2/1[illegible]

2:35 pm

Reel #: 863

Grade: 10 pt

Basis Wgt: 72.0

Machine #1

Columbia Analytical Services, Inc.
8540 Baycenter Road
Jacksonville, FL 32256
(904) 739-2277 Phone
(904) 739-2011 Fax
www.caslab.com

Columbia Analytical Services INC
An Employee - Owned Company

ACCREDITED IN ACCORDANCE WITH nelac

FAX TRANSMITTAL

TO: CHAD LONGOORE
FAX# 616 963-4425
FROM: ALLIE
DATE: 2/28/02

MESSAGE: J2200249 RESULTS!

Thank You.

NUMBER OF PAGES 8 (Including cover sheet)

Important Note
The documents accompanying this transmission may contain information which is legally privileged and/or confidential. The information is intended only for the use of the individual or entity named above. If you are not the intended recipient, or the person responsible for delivering it to the intended recipient, you are hereby notified that any disclosure, copying, distribution, or use of any of the information contained in this transmission is strictly **PROHIBITED**. If you have received this transmission in error, please immediately notify us by telephone and mail the original transmission to us. Thank you for your cooperation and assistance.

Columbia Analytical Services INC.
An Employee-Owned Company

February 28, 2002

Service Request No. J2200249

Chad Longcore
Michigan Paperboard Co.
79 E Fountain St.
Battle Creek, MI 49017

RE: Project No.: 78839
Project Name: Protocol

Dear Chad Longcore:

Enclosed are the results of the samples(s) submitted to our laboratory on January 25, 2002. For your reference, these analyses have been assigned our service request number: J2200249. Since no basis weight was given for the sample, a basis weight of 100 #/msf was used to calculate the allowable concentration.
All analyses were performed according to our laboratory's quality assurance program. All results are intended to be considered in the entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions.

Respectfully submitted,

Columbia Analytical Services, Inc.

Tom Kissinger
Project Manager

CAS Jacksonville is NELAC-accredited by the State of Florida (E82502). Other state accreditations include: LA, AI 30759; MA, M-FL937; NH, 2942; NC, 527; SC, 96021; WA, C278.

Fax (904) 739-2011

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: Protocol/78839
Sample Matrix: Paperboard

Service Request: J2200249
Date Collected: NA
Date Received: NA

Lead

Sample Name: Method Blank
Lab Code: J220207-MB
Test Notes:

Units: mg/Kg (ppm)
Basis: NA
Basis Weight (#/MSF). 100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Lead	3050B	6020	2	2 14	1	2/7/02	2/23/02	U	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration
(All Food and Paperboard Types; Basis Weight Corrected)

U Not detected at or above the MRL.

Approved By: Tom D. Hissinger Date. 2/28/02

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: Protocol/78839
Sample Matrix: Paperboard

Service Request: J2200249
Date Collected: NA
Date Received: 1/25/02

Lead

Sample Name: Paper Composite
Lab Code: J2200249-001
Test Notes:

Units: mg/Kg (ppm)
Basis: As Received
Basis Weight (#/MSF): 100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Lead	3050B	6020	2	2.14	1	2/7/02	2/23/02	U	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration (All Food and Paperboard Types; Basis Weight Corrected)

U Not detected at or above the MRL.

Approved By: Tom D. Hissinger Date: 2/28/02

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co.	**Service Request:**	J2200249
Project:	Protocol/78839	**Date Collected:**	NA
Sample Matrix:	Paperboard	**Date Received:**	1/25/02

Base Neutral/Acid Semivolatile Organic Compounds

Sample Name:	Paper Composite	Units:	mg/Kg (ppm)
Lab Code:	J2200249-001	Basis:	As Received
Test Notes:	b	Basis Weight (#/MSF):	100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Benzidine	3550	8270C	5	0.0000107	10	2/5/02	2/8/02	U	
Benzoic Acid	3550	8270C	50	9880	10	2/5/02	2/8/02	U	
Benzyl alcohol	3550	8270C	5	2470	10	2/5/02	2/8/02	U	
Biphenyl	3550	8270C	5	123	10	2/5/02	2/8/02	U	a
Bis(2-ethylhexyl) Phthalate	3550	8270C	5	11	10	2/5/02	2/8/02	U	
Butyl Benzyl Phthalate	3550	8270C	5	2880	10	2/5/02	2/8/02	U	
4-Chloro-3-methylphenol	3550	8270C	10	45.2	10	2/5/02	2/8/02	U	
4-Chloroaniline	3550	8270C	5	9.88	10	2/5/02	2/8/02	U	
2-Chloronaphthalene	3550	8270C	5	198	10	2/5/02	2/8/02	U	
2-Chlorophenol	3550	8270C	5	12.3	10	2/5/02	2/8/02	U	
Di-n-butyl Phthalate	3550	8270C	5	1460	10	2/5/02	2/8/02	U	
Di-n-octyl Phthalate	3550	8270C	5	193	10	2/5/02	2/8/02	U	
Dibenzofuran	3550	8270C	5	9.88	10	2/5/02	2/8/02	U	
3,3'-Dichlorobenzidine	3550	8270C	10	0.00549	10	2/5/02	2/8/02	U	
2,4-Dichlorophenol	3550	8270C	5	7.41	10	2/5/02	2/8/02	U	
Diethyl Phthalate	3550	8270C	5	3250	10	2/5/02	2/8/02	U	
Dimethyl Phthalate	3550	8270C	5	3250	10	2/5/02	2/8/02	U	
2,4-Dimethylphenol	3550	8270C	5	49.4	10	2/5/02	2/8/02	U	
2-Methyl-4,6-dinitrophenol	3550	8270C	10	0.173	10	2/5/02	2/8/02	U	
2,4-Dinitrophenol	3550	8270C	10	0.741	10	2/5/02	2/8/02	U	
2,4-Dinitrotoluene	3550	8270C	5	0.0705	10	2/5/02	2/8/02	U	
2,6-Dinitrotoluene	3550	8270C	5	0.00363	10	2/5/02	2/8/02	U	
Hexachlorobenzene	3550	8270C	5	0.00154	10	2/5/02	2/8/02	U	
Hexachlorobutadiene	3550	8270C	5	0.0317	10	2/5/02	2/8/02	U	
Hexachlorocyclopentadiene	3550	8270C	5	17.3	10	2/5/02	2/8/02	U	
Hexachloroethane	3550	8270C	5	0.176	10	2/5/02	2/8/02	U	
Isophorone	3550	8270C	5	2.47	10	2/5/02	2/8/02	U	
1-Methylnaphthalene	3550	8270C	5	98.8	10	2/5/02	2/8/02	U	a
2-Methylnaphthalene	3550	8270C	5	98.8	10	2/5/02	2/8/02	U	
2-Methyphenol	3550	8270C	5	123	10	2/5/02	2/8/02	U	
3- & 4-Methyphenol	3550	8270C	5	123	10	2/5/02	2/8/02	U	
N-Nitrosodi-n-propylamine	3550	8270C	5	0.000353	10	2/5/02	2/8/02	U	
N-Nitrosodimethylamine	3550	8270C	5	0.0000484	10	2/5/02	2/8/02	U	
N-Nitrosodiphenylamine	3550	8270C	5	0.504	10	2/5/02	2/8/02	U	
2-Nitroaniline	3550	8270C	5	26.4	10	2/5/02	2/8/02	U	
3-Nitroaniline	3550	8270C	5	22.2	10	2/5/02	2/8/02	U	
4-Nitroaniline	3550	8270C	5	18.5	10	2/5/02	2/8/02	U	
Nitrobenzene	3550	8270C	5	1.23	10	2/5/02	2/8/02	U	
2-Nitrophenol	3550	8270C	5	8.25	10	2/5/02	2/8/02	U	
4-Nitrophenol	3550	8270C	10	6.17	10	2/5/02	2/8/02	U	
2, 2'-Oxybis(1-chloropropane)	3550	8270C	10	5.93	10	2/5/02	2/8/02	U	
Pentachlorophenol	3550	8270C	10	0.0206	10	2/5/02	2/8/02	U	
Phenol	3550	8270C	5	1480	10	2/5/02	2/8/02	U	
Pyridine	3550	8270C	5	2.47	10	2/5/02	2/8/02	U	
2,3,4,6-Tetrachlorophenol*	3550	8270C	5	74.1	10	2/5/02	2/8/02	U	a
1,2,4-Trichlorobenzene	3550	8270C	5	3.21	10	2/5/02	2/8/02	U	
2,4,5-Trichlorophenol	3550	8270C	5	247	10	2/5/02	2/8/02	U	
2,4,6-Trichlorophenol	3550	8270C	5	0.224	10	2/5/02	2/8/02	U	
Bis(2-chloroethoxy)methane	3550	8270C	5	1.6	10	2/5/02	2/8/02	U	
Bis(2-chloroethyl) Ether	3550	8270C	5	0.00224	10	2/5/02	2/8/02	U	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration (All Food and Paperboard Types, Basis Weight Corrected)

a Search for as a tentatively identified compound.

b MRL elevated due to matrix interferences. Dilution factor 1:10.

Approved By: Tom D. Hissing Date: 2/28/02

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: Protocol/78839
Sample Matrix: Paperboard

Service Request: J2200249
Date Collected: NA
Date Received: NA

Base Neutral/Acid Semivolatile Organic Compounds

Sample Name: Method Blank
Lab Code: EX220054-MB
Test Notes:

Units: mg/Kg (ppm)
Basis: NA
Basis Weight (#/MSF): 100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Benzidine	3550	8270C	0.5	0.0000107	1	2/5/02	2/8/02	U	
Benzoic Acid	3550	8270C	5	9880	1	2/5/02	2/8/02	U	
Benzyl alcohol	3550	8270C	0.5	2470	1	2/5/02	2/8/02	U	
Biphenyl	3550	8270C	0.5	123	1	2/5/02	2/8/02	U	a
Bis(2-ethylhexyl) Phthalate	3550	8270C	0.5	11	1	2/5/02	2/8/02	U	
Butyl Benzyl Phthalate	3550	8270C	0.5	2880	1	2/5/02	2/8/02	U	
4-Chloro-3-methylphenol	3550	8270C	1	45.2	1	2/5/02	2/8/02	U	
4-Chloroaniline	3550	8270C	0.5	9.88	1	2/5/02	2/8/02	U	
2-Chloronaphthalene	3550	8270C	0.5	198	1	2/5/02	2/8/02	U	
2-Chlorophenol	3550	8270C	0.5	12.3	1	2/5/02	2/8/02	U	
Di-n-butyl Phthalate	3550	8270C	0.5	1460	1	2/5/02	2/8/02	U	
Di-n-octyl Phthalate	3550	8270C	0.5	193	1	2/5/02	2/8/02	U	
Dibenzofuran	3550	8270C	0.5	9.88	1	2/5/02	2/8/02	U	
3,3'-Dichlorobenzidine	3550	8270C	1	0.00549	1	2/5/02	2/8/02	U	
2,4-Dichlorophenol	3550	8270C	0.5	7.41	1	2/5/02	2/8/02	U	
Diethyl Phthalate	3550	8270C	0.5	3250	1	2/5/02	2/8/02	U	
Dimethyl Phthalate	3550	8270C	0.5	3250	1	2/5/02	2/8/02	U	
2,4-Dimethylphenol	3550	8270C	0.5	49.4	1	2/5/02	2/8/02	U	
2-Methyl-4,6-dinitrophenol	3550	8270C	1	0.173	1	2/5/02	2/8/02	U	
2,4-Dinitrophenol	3550	8270C	1	0.741	1	2/5/02	2/8/02	U	
2,4-Dinitrotoluene	3550	8270C	0.5	0.0705	1	2/5/02	2/8/02	U	
2,6-Dinitrotoluene	3550	8270C	0.5	0.00363	1	2/5/02	2/8/02	U	
Hexachlorobenzene	3550	8270C	0.5	0.00154	1	2/5/02	2/8/02	U	
Hexachlorobutadiene	3550	8270C	0.5	0.0317	1	2/5/02	2/8/02	U	
Hexachlorocyclopentadiene	3550	8270C	0.5	17.3	1	2/5/02	2/8/02	U	
Hexachloroethane	3550	8270C	0.5	0.176	1	2/5/02	2/8/02	U	
Isophorone	3550	8270C	0.5	2.47	1	2/5/02	2/8/02	U	
1-Methylnaphthalene	3550	8270C	0.5	98.8	1	2/5/02	2/8/02	U	a
2-Methylnaphthalene	3550	8270C	0.5	98.8	1	2/5/02	2/8/02	U	
2-Methyphenol	3550	8270C	0.5	123	1	2/5/02	2/8/02	U	
3- & 4-Methyphenol	3550	8270C	0.5	123	1	2/5/02	2/8/02	U	
N-Nitrosodi-n-propylamine	3550	8270C	0.5	0.000353	1	2/5/02	2/8/02	U	
N-Nitrosodimethylamine	3550	8270C	0.5	0.0000484	1	2/5/02	2/8/02	U	
N-Nitrosodiphenylamine	3550	8270C	0.5	0.504	1	2/5/02	2/8/02	U	
2-Nitroaniline	3550	8270C	0.5	26.4	1	2/5/02	2/8/02	U	
3-Nitroaniline	3550	8270C	0.5	22.2	1	2/5/02	2/8/02	U	
4-Nitroaniline	3550	8270C	0.5	18.5	1	2/5/02	2/8/02	U	
Nitrobenzene	3550	8270C	0.5	1.23	1	2/5/02	2/8/02	U	
2-Nitrophenol	3550	8270C	0.5	8.25	1	2/5/02	2/8/02	U	
4-Nitrophenol	3550	8270C	1	6.17	1	2/5/02	2/8/02	U	
2, 2'-Oxybis(1-chloropropane)	3550	8270C	1	5.93	1	2/5/02	2/8/02	U	
Pentachlorophenol	3550	8270C	1	0.0206	1	2/5/02	2/8/02	U	
Phenol	3550	8270C	0.5	1480	1	2/5/02	2/8/02	U	
Pyridine	3550	8270C	0.5	2.47	1	2/5/02	2/8/02	U	
2,3,4,6-Tetrachlorophenol*	3550	8270C	0.5	74.1	1	2/5/02	2/8/02	U	a
1,2,4-Trichlorobenzene	3550	8270C	0.5	3.21	1	2/5/02	2/8/02	U	
2,4,5-Trichlorophenol	3550	8270C	0.5	247	1	2/5/02	2/8/02	U	
2,4,6-Trichlorophenol	3550	8270C	0.5	0.224	1	2/5/02	2/8/02	U	
Bis(2-chloroethoxy)methane	3550	8270C	0.5	1.6	1	2/5/02	2/8/02	U	
Bis(2-chloroethyl) Ether	3550	8270C	0.5	0.00224	1	2/5/02	2/8/02	U	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration (All Food and Paperboard Types, Basis Weight Corrected)

a Search for as a tentatively identified compound.

Approved By: Tom D. Hussing Date: 2/28/02

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: Protocol/78839
Sample Matrix: Paperboard

Service Request: J2200249
Date Collected: NA
Date Received: 1/25/02

Polynuclear Aromatic Hydrocarbons (PAHs)

Sample Name: Paper Composite
Lab Code: J2200249-001
Test Notes: a

Units: mg/Kg (ppm)
Basis: As Received
Basis Weight (#MSF:) 100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Acenaphthene	3550	8270C	0.05	1100	10	2/5/02	2/7/02	U	
Acenaphthylene	3550	8270C	0.05	552	10	2/5/02	2/7/02	U	
Anthracene	3550	8270C	0.05	5530	10	2/5/02	2/7/02	U	
Benz(a)anthracene	3550	8270C	0.05	0.00635	10	2/5/02	2/7/02	U	
Benzo(a)pyrene	3550	8270C	0.05	0.000762	10	2/5/02	2/7/02	U	
Benzo(b)fluoranthene	3550	8270C	0.05	0.00318	10	2/5/02	2/7/02	U	
Benzo(g,h,i)perylene	3550	8270C	0.05	0.106	10	2/5/02	2/7/02	U	
Benzo(k)fluoranthene	3550	8270C	0.05	0.0452	10	2/5/02	2/7/02	U	
Carbazole	3550	8270C	0.05	0.123	10	2/5/02	2/7/02	U	
Chrysene	3550	8270C	0.05	0.0317	10	2/5/02	2/7/02	U	
Dibenz(a,h)anthracene	3550	8270C	0.05	0.00302	10	2/5/02	2/7/02	U	
Fluoranthene	3550	8270C	0.05	0.31	10	2/5/02	2/7/02	U	
Fluorene	3550	8270C	0.05	1430	10	2/5/02	2/7/02	U	
Indeno(1,2,3-cd)pyrene	3550	8270C	0.05	0.0252	10	2/5/02	2/7/02	U	
Naphthalene	3550	8270C	0.05	870	10	2/5/02	2/7/02	U	
Phenanthrene	3550	8270C	0.05	947	10	2/5/02	2/7/02	U	
Pyrene	3550	8270C	0.05	333	10	2/5/02	2/7/02	U	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration (All Food and Paperboard Types; Basis Weight Corrected)

a MRL elevated due to matrix interferences. Dilution factor 1:10.

Approved By: Tom D. Kissinger Date: 2/28/02

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: Protocol/78839
Sample Matrix: Paperboard

Service Request: J2200249
Date Collected: NA
Date Received: NA

Polynuclear Aromatic Hydrocarbons (PAHs)

Sample Name: Method Blank
Lab Code: EX220054-MB
Test Notes:

Units: mg/Kg (ppm)
Basis: NA
Basis Weight (#MSF:) 100

Analyte	Prep Method	Analysis Method	MRL	Allowable* Concentration	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Acenaphthene	3550	8270C	0.005	1100	1	2/5/02	2/7/02	U	
Acenaphthylene	3550	8270C	0.005	552	1	2/5/02	2/7/02	U	
Anthracene	3550	8270C	0.005	5530	1	2/5/02	2/7/02	U	
Benz(a)anthracene	3550	8270C	0.005	0.00635	1	2/5/02	2/7/02	U	
Benzo(a)pyrene	3550	8270C	0.005	0.000762	1	2/5/02	2/7/02	U	
Benzo(b)fluoranthene	3550	8270C	0.005	0.00318	1	2/5/02	2/7/02	U	
Benzo(g,h,i)perylene	3550	8270C	0.005	0.106	1	2/5/02	2/7/02	U	
Benzo(k)fluoranthene	3550	8270C	0.005	0.0452	1	2/5/02	2/7/02	U	
Carbazole	3550	8270C	0.005	0.123	1	2/5/02	2/7/02	U	
Chrysene	3550	8270C	0.005	0.0317	1	2/5/02	2/7/02	U	
Dibenz(a,h)anthracene	3550	8270C	0.005	0.00302	1	2/5/02	2/7/02	U	
Fluoranthene	3550	8270C	0.005	0.31	1	2/5/02	2/7/02	U	
Fluorene	3550	8270C	0.005	1430	1	2/5/02	2/7/02	U	
Indeno(1,2,3-cd)pyrene	3550	8270C	0.005	0.0252	1	2/5/02	2/7/02	U	
Naphthalene	3550	8270C	0.005	870	1	2/5/02	2/7/02	U	
Phenanthrene	3550	8270C	0.005	947	1	2/5/02	2/7/02	U	
Pyrene	3550	8270C	0.005	333	1	2/5/02	2/7/02	U	

* From 9/21/01 RPTA Testing Protocol, Table 2-1, Conservative Allowable Concentration (All Food and Paperboard Types; Basis Weight Corrected)

Approved By: Tom D. Hussing Date: 2/28/02

Columbia Analytical Services INC.
An Employee-Owned Company

Please Remit to: P.O. Box 1515
Tacoma, WA 98401-1515
(360) 577-7222 • Fax (360) 425-9096

T.I.N. 91-2050686

INVOICE

Work Order No. J2103280
Customer No. 7270089

Invoice No. 715107
Date: 11/8/01

P.O. Number: 77708
Project No. 77708*
Project Name: Protocol
Matrix: Paper
Report to: Chad Longcore
Project Manager: Tom Kissinger
Samples submitted on: 10/17/01

Attn: Accounts Payable
Michigan Paperboard Co.
79 E Fountain St.
Battle Creek, MI 49017

Item Code	Description	Quantity Ordered	Unit Price	Extended Price
200/7000 series	Total Lead	1	$15.00	$15.00
8270C	PAH/Phthalates	1	$380.00	$380.00

Amount Due $395 00

Chad Longcore

MasterCard VISA AMERICAN EXPRESS

Terms: Net 30 days, 1.5% interest per month (18% per year) charge on past due accounts.

Columbia Analytical Services INC.
An Employee-Owned Company

November 08, 2001

Service Request No. J2103280

Chad Longcore
Michigan Paperboard Co.
79 E Fountain St.
Battle Creek, MI 49017

RE: Project No.: 77708
Project Name: Protocol

Dear Chad Longcore:

Enclosed are the results of the samples(s) submitted to our laboratory on October 17, 2001. For your reference, these analyses have been assigned our service request number: J2103280.

All analyses were performed according to our laboratory's quality assurance program. All results are intended to be considered in the entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions.

Respectfully submitted,

Columbia Analytical Services, Inc.

Tom Kissinger
Project Manager

CAS Jacksonville is NELAC-accredited by the State of Florida (E82502). Other state accreditations include. LA, AI 30759; MA, M-FL937; NH, 2942; NC, 527; SC, 96021; WA, C278.

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co	**Service Request:**	J2103280
Project:	Protocol / 77708	**Date Collected:**	NA
Sample Matrix:	Paperboard	**Date Received:**	10/17/01
		Date Extracted:	10/24/01

Semivolatile Organic Compounds
EPA Methods 3550/8270C
Units mg/Kg (ppm)

Sample Name	**#2 Paper Machine**	**Method Blank**
Lab Code	J2103280-001	EX210606-MB
Date Analyzed	11/7/01	11/5/01

Analyte	**MRL**		
Benzidine	2 5	U	U
Benzoic Acid	25	U	U
Benzyl alcohol	2 5	U	U
Biphenyl*	2 5	U	U
Bis(2-ethylhexyl) Phthalate	2 5	5 3	U
Butyl Benzyl Phthalate	2 5	U	U
Carbazole	2 5	U	U
4-Chloro-3-methylphenol	5	U	U
4-Chloroaniline	2 5	U	U
2-Chloronaphthalene	2 5	U	U
2-Chlorophenol	2 5	U	U
Di-n-butyl Phthalate	2 5	5 8	U
Di-n-octyl Phthalate	2 5	U	U
Dibenzofuran	2 5	U	U
1,2-Dichlorobenzene	2 5	U	U
1,3-Dichlorobenzene	2 5	U	U
1,4-Dichlorobenzene	2 5	U	U
3,3'-Dichlorobenzidine	5	U	U
2,4-Dichlorophenol	2 5	U	U
Diethyl Phthalate	2 5	U	U
Dimethyl Phthalate	2 5	U	U
2,4-Dimethylphenol	2 5	U	U
2-Methyl-4,6-dinitrophenol	5	U	U

* Searched for as a tentatively identified compound
U Not detected at or above the MRL

Approved By Tam D. Thissing Date 11/8/01

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co	**Service Request:**	J2103280
Project:	Protocol / 77708	**Date Collected:**	NA
Sample Matrix:	Paperboard	**Date Received:**	10/17/01
		Date Extracted:	10/24/01

Semivolatile Organic Compounds
EPA Methods 3550/8270C
Units mg/Kg (ppm)

Sample Name	**#2 Paper Machine**	**Method Blank**
Lab Code	J2103280-001	EX210606-MB
Date Analyzed	11/7/01	11/5/01

Analyte	**MRL**		
2,4-Dinitrophenol	5	U	U
2,4-Dinitrotoluene	2 5	U	U
2,6-Dinitrotoluene	2 5	U	U
Hexachlorobenzene	2 5	U	U
Hexachlorobutadiene	2 5	U	U
Hexachlorocyclopentadiene	2 5	U	U
Hexachloroethane	2 5	U	U
Isophorone	2 5	U	U
1-Methylnaphthalene*	2 5	U	U
2-Methylnaphthalene	2 5	U	U
2-Methyphenol	2 5	U	U
3- & 4-Methyphenol	2 5	U	U
N-Nitrosodi-n-propylamine	2 5	U	U
N-Nitrosodimethylamine	2 5	U	U
N-Nitrosodiphenylamine	2 5	U	U
2-Nitroaniline	2 5	U	U
3-Nitroaniline	2 5	U	U
4-Nitroaniline	2 5	U	U
Nitrobenzene	2 5	U	U
2-Nitrophenol	2 5	U	U
4-Nitrophenol	5	U	U

*	Searched for as a tentatively identified compound
U	Not detected at or above the MRL

Approved By Tom D. Hessinger Date 11/8/01

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co
Project: Protocol / 77708
Sample Matrix: Paperboard

Service Request: J2103280
Date Collected: NA
Date Received: 10/17/01
Date Extracted: 10/24/01

Semivolatile Organic Compounds
EPA Methods 3550/8270C
Units mg/Kg (ppm)

	Sample Name	**#2 Paper Machine**	**Method Blank**
	Lab Code	J2103280-001	EX210606-MB
	Date Analyzed	11/7/01	11/5/01
Analyte	**MRL**		
2, 2'-Oxybis(1-chloropropane)	5	U	U
Pentachlorophenol	5	U	U
Phenol	2 5	U	U
Pyridine	2 5	U	U
2,3,4,6-Tetrachlorophenol*	2 5	U	U
1,2,4-Trichlorobenzene	2 5	U	U
2,4,5-Trichlorophenol	2 5	U	U
2,4,6-Trichlorophenol	2 5	U	U
Bis(2-chloroethoxy)methane	2 5	U	U
Bis(2-chloroethyl) Ether	2 5	U	U

* Searched for as a tentatively identified compound
U Not detected at or above the MRL

Approved By Tom D. Kissinger Date 11/8/01

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co
Project: Protocol / 77708
Sample Matrix: Paperboard

Service Request: J2103280
Date Collected: NA
Date Received: 10/17/01
Date Extracted: 10/24/01

Polynuclear Aromatic Hydrocarbons (PAHs)
EPA Methods 3550/8270C
Units mg/Kg (ppm)

Sample Name	**#2 Paper Machine**	**Method Blank**
Lab Code	J2103280-001	EX210606-MB
Date Analyzed	11/5/01	11/5/01

Analyte	**MRL**		
Acenaphthene	0 25	U	U
Acenaphthylene	0 25	U	U
Anthracene	0 25	U	U
Benz(a)anthracene	0 25	U	U
Benzo(a)pyrene	0 25	U	U
Benzo(b)fluoranthene	0 25	U	U
Benzo(ghi)perylene	0 25	U	U
Benzo(k)fluoranthene	0 25	U	U
Chrysene	0 25	U	U
Dibenz(a,h)anthracene	0 25	U	U
Fluoranthene	0 25	U	U
Fluorene	0 25	U	U
Indeno(1,2,3-cd)pyrene	0 25	U	U
Naphthalene	0 25	U	U
Phenanthrene	0 25	U	U
Pyrene	0 25	U	U

U Not detected at or above the MRL

Approved By Tom D. Hissing Date 11/8/01

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co.	**Service Request:**	J2103280
Project:	Protocol / 77708	**Date Collected:**	NA
Sample Matrix:	Paper	**Date Received:**	10/17/01
		Date Extracted:	10/19/01

Total Metals
Units: mg/Kg(ppm)
As Received Basis

		Sample Name:	**#2 Paper Machine**	**Method Blank**
		Lab Code:	J2103280-001	J211019-MB
		Date Analyzed:	11/5/01	11/5/01
Analyte	**EPA Method**	**MRL**		
Lead	6020	2	2 6	U

U Not detected at or above the MRL.

Approved By: Tam D. Hassinger Date 11/8/01

Cooler Receipt and Preservation Form

Project/Client: Protocol/Michigan Paperboard Co **SR Number:** _____

Cooler received on 10/17/01 by SS

Courier CAS ☐ UPS ☐ FEDEX ☒

CLIENT ☐ CD&L ☐ OTHER ☐

	Yes	No	N/A
1 Were custody seals on the outside of the cooler?	☐	☐	☒
2 Were custody seals intact?	☐	☐	☒
3 Were custody papers properly filled out(ink, singed, ect)?	☒	☐	☐
4 Did all bottles arrive in good condition(unbroken)?	☒	☐	☐
5 Did any VOA vials contain significant air bubbles?	☐	☐	☒
6 Were ice or ice packs present?	☐	☐	☒
7 Did all samples arrive within appropriate holding times?	☒	☐	☐
8 Where did the bottles originate? CAS/JAX	☐	CLIENT	☒

9 Temperature of cooler(s) upon receipt/within 0-6C?

	Temp.	Yes	No	N/A		Temp.	Yes	No	N/A
Cooler 1	_____	☐	☐	☒	Cooler 3	_____	☐	☐	☐
Cooler 2	_____	☐	☐	☐	Cooler 4	_____	☐	☐	☐

Date/Time Temperature Taken 10/17/01 11 25 **If No/NA, Explain** _____

Thermometer ID 2618380101-0015 ☐ Temp Blank ☐ Cooler Temp ☐

15-078-J-4 ☐ Sample Bottle ☐ IR Gun ☒

If out of temperature, client approval to run samples Paper Sample

Cooler Breakdown Date 10/17/01 By SS

	Yes	No	N/A
1 Were all the bottle labels complete(i e analysis, preservation, ect)	☒	☐	☐
2 Did all bottle labels and tags agree with custody papers?	☒	☐	☐
3 Were correct containers used for the test indicated?	☒	☐	☐

4 Air samples Cassettes/Tubes Intact ☐ Tedlar Bags Inflated ☐

Canisters Pressurized ☐ NA ☒

Explain any discrepancies _____

		Yes	No	Sample ID	Reagent	Volume Added
pH	Reagent					
>12	NaOH					
>9	NaOH+ZnAc					
<2	HNO3					
<2	H2SO4					
<2	HCl					
5-9*	P/PCB (608 Only)					

* If pH adjustment is required, use NaOH/or H2SO4 PM OK to adjust pH_____

YES= All samples OK NO=Samples were preserved at lab as listed

VOC Vial pH Verification(Tested after Analysis) Following Samples Exhibited pH >2				

Other Comments _____

Columbia Analytical Services INC
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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST

3280

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DATE 10/ /2001 PAGE 1 OF 1

PROJECT NAME Protocol
PROJECT # 77708
COMPANY/ADDRESS Michigan Paperboard Company
79 East Fountain Street
Battle Creek, Michigan 49017 PHONE 616-963-4004
REPORT TO Chad Longcore
SAMPLER'S SIGNATURE Jim Hosking

ANALYSIS REQUEST

RPTA – Focused Sampling X
(Short List)

RPTA – Baseline Sampling
(Comprehensive)

SAMPLE ID	DATE	TIME	REMARKS
#2 Machine Board Samples	9/24 - 9/28		
Composite			
9/24 - 9/28/2001			

RELINQUISHED BY:

Signature
Printed Name
Firm
Date/Time

RECEIVED BY:

Signature
S Fovich
Printed Name
CB
Firm
10/17/01 1125
Date/Time

SPECIAL INSTRUCTIONS/COMMENTS

INVOICE INFORMATION:

P O # 77708
Bill To Michigan Paperboard
79 East Fountain Street
Battle Creek, Michigan
49017

SAMPLE RECEIPT:

Shipping VIA
Shipping to
Condition
Lab No

DISTRIBUTION WHITE - return to originator, YELLOW - lab, PINK - retained by originator

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Tacoma, WA 98401-1515
(360) 577-7222 • Fax (360) 425-9096

T.I.N. 91-2050686

INVOICE

Work Order No. J2102135
Customer No. 7270089

Invoice No. 714207
Date: 8/8/01

P O. Number: 76710
Project No. 76710*
Project Name: Protocol
Matrix: Paper
Report to: Barb Russell
Project Manager: Tom Kissinger
Samples submitted on: 7/17/01

Attn: Accounts Payable
Michigan Paperboard Co.
79 E Fountain St.
Battle Creek, MI 49017

Item Code	Description	Quantity Ordered	Unit Price	Extended Price
200/7000 series	Total Lead	1	$15.00	$15.00
8270C	PAH/Phthalates	1	$380.00	$380.00

Amount Due $395 00

Columbia Analytical Services INC.
An Employee-Owned Company

August 08, 2001

Service Request No. J2102135

Barb Russell
Michigan Paperboard Co.
79 E Fountain St.
Battle Creek, MI 49017

RE: Project No.: 76710
Project Name: Protocol

Dear Barb Russell:

Enclosed are the results of the samples(s) submitted to our laboratory on July 17, 2001. For your reference, these analyses have been assigned our service request number: J2102135

All analyses were performed according to our laboratory's quality assurance program. All results are intended to be considered in the entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions.

Respectfully submitted,

Columbia Analytical Services, Inc.

Tom Kissinger
Project Manager

CAS Jacksonville is NELAC-accredited by the State of Florida (E82502). Other state accreditations include: LA, AI 30759; MA, M-FL937; NH, 2942; NC, 527; SC, 96021; WA, C278.

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co
Project: Protocol / 76710
Sample Matrix: Paperboard

Service Request: J2102135
Date Collected: NA
Date Received: 7/17/01
Date Extracted: 7/17/01

Semivolatile Organic Compounds
EPA Methods 3550/8270C
Units mg/Kg (ppm)

Sample Name	**#1 Paper Machine**	**Method Blank**
Lab Code	J2102135-001	EX210392-MB
Date Analyzed	8/6/01	8/6/01

Analyte	**MRL**		
Benzidine	0 5	U	U
Benzoic Acid	5	U	U
Benzyl alcohol	0 5	U	U
Biphenyl*	0 5	U	U
Bis(2-ethylhexyl) Phthalate	0 5	1 6	U
Butyl Benzyl Phthalate	0 5	5 3	U
Carbazole	0 5	U	U
4-Chloro-3-methylphenol	1	U	U
4-Chloroaniline	0 5	U	U
2-Chloronaphthalene	0 5	U	U
2-Chlorophenol	0 5	U	U
Di-n-butyl Phthalate	0 5	3 6	U
Di-n-octyl Phthalate	0 5	U	U
Dibenzofuran	0 5	U	U
1,2-Dichlorobenzene	0 5	U	U
1,3-Dichlorobenzene	0 5	U	U
1,4-Dichlorobenzene	0 5	U	U
3,3'-Dichlorobenzidine	1	U	U
2,4-Dichlorophenol	0 5	U	U
Diethyl Phthalate	0 5	U	U
Dimethyl Phthalate	0 5	U	U
2,4-Dimethylphenol	0 5	U	U
2-Methyl-4,6-dinitrophenol	1	U	U

* Searched for as a tentatively identified compound
U Not detected at or above the MRL

Approved By Tom D. Hissinger Date 8/9/01

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co
Project: Protocol / 76710
Sample Matrix: Paperboard

Service Request: J2102135
Date Collected: NA
Date Received: 7/17/01
Date Extracted: 7/17/01

Semivolatile Organic Compounds
EPA Methods 3550/8270C
Units mg/Kg (ppm)

Sample Name	**#1 Paper Machine**	**Method Blank**
Lab Code	J2102135-001	EX210392-MB
Date Analyzed	8/6/01	8/6/01

Analyte	**MRL**		
2,4-Dinitrophenol	1	U	U
2,4-Dinitrotoluene	0 5	U	U
2,6-Dinitrotoluene	0 5	U	U
Hexachlorobenzene	0 5	U	U
Hexachlorobutadiene	0 5	U	U
Hexachlorocyclopentadiene	0 5	U	U
Hexachloroethane	0 5	U	U
Isophorone	0 5	U	U
1-Methylnaphthalene*	0 5	U	U
2-Methylnaphthalene	0 5	U	U
2-Methyphenol	0 5	U	U
3- & 4-Methyphenol	0 5	U	U
N-Nitrosodi-n-propylamine	0 5	U	U
N-Nitrosodimethylamine	0 5	U	U
N-Nitrosodiphenylamine	0 5	U	U
2-Nitroaniline	0 5	U	U
3-Nitroaniline	0 5	U	U
4-Nitroaniline	0 5	U	U
Nitrobenzene	0 5	U	U
2-Nitrophenol	0 5	U	U
4-Nitrophenol	1	U	U

* Searched for as a tentatively identified compound
U Not detected at or above the MRL

Approved By. Tom D. Thissinger Date 8/9/01

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co	**Service Request:**	J2102135
Project:	Protocol / 76710	**Date Collected:**	NA
Sample Matrix:	Paperboard	**Date Received:**	7/17/01
		Date Extracted:	7/17/01

Semivolatile Organic Compounds
EPA Methods 3550/8270C
Units mg/Kg (ppm)

Sample Name	**#1 Paper Machine**	**Method Blank**
Lab Code	J2102135-001	EX210392-MB
Date Analyzed	8/6/01	8/6/01

Analyte	**MRL**		
2, 2'-Oxybis(1-chloropropane)	1	U	U
Pentachlorophenol	1	U	U
Phenol	0 5	U	U
Pyridine	0 5	U	U
2,3,4,6-Tetrachlorophenol*	0 5	U	U
1,2,4-Trichlorobenzene	0 5	U	U
2,4,5-Trichlorophenol	0 5	U	U
2,4,6-Trichlorophenol	0 5	U	U
Bis(2-chloroethoxy)methane	0 5	U	U
Bis(2-chloroethyl) Ether	0 5	U	U

* Searched for as a tentatively identified compound
U Not detected at or above the MRL

Approved By Tom D. Wissinger Date 8/9/01

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co	**Service Request:**	J2102135
Project:	Protocol / 76710	**Date Collected:**	NA
Sample Matrix:	Paperboard	**Date Received:**	7/17/01
		Date Extracted:	7 17/01

Polynuclear Aromatic Hydrocarbons (PAHs)
EPA Methods 3550/8270C
Units mg/Kg (ppm)

Sample Name	**#1 Paper Machine**	**Method Blank**
Lab Code	J2102135-001	EX210392-MB
Date Analyzed	7/27/01	7/27/01

Analyte	**MRL**		
Acenaphthene	0 005	U	U
Acenaphthylene	0 005	U	U
Anthracene	0 005	U	U
Benz(a)anthracene	0 005	U	U
Benzo(a)pyrene	0 005	U	U
Benzo(b)fluoranthene	0 005	U	U
Benzo(ghi)perylene	0 005	U	U
Benzo(k)fluoranthene	0 005	U	U
Chrysene	0 005	U	U
Dibenz(a,h)anthracene	0 005	U	U
Fluoranthene	0 005	0 0095	U
Fluorene	0 005	U	U
Indeno(1,2,3-cd)pyrene	0 005	U	U
Naphthalene	0 005	U	U
Phenanthrene	0 005	0 020	U
Pyrene	0 005	0 011	U

U Not detected at or above the MRL

Approved By Paul D. Hissinger Date 8/9/01

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co	**Service Request:**	J2102135
Project:	Protocol / 76710	**Date Collected:**	NA
Sample Matrix:	Paper	**Date Received:**	7/17/01
		Date Extracted:	7/19/01

Total Metals
Units mg/Kg(ppm)
As Received Basis

			#1 Paper	
		Sample Name	**Machine**	**Method Blank**
		Lab Code	J2102135-001	J210719-MB
		Date Analyzed	7/23/01	7/23/01
Analyte	**EPA Method**	**MRL**		
Lead	6020	2	3 6	U

U Not detected at or above the MRL

Approved By Paul D. Hissinger Date 8/9/01

Cooler Receipt and Preservation Form

Project/Client: Protocol/Michigan Paperboard Co **SR Number:** J2102135

Cooler received on 7/17/01 by SS

Courier CAS ☐ UPS ☒ FEDEX ☐

CLIENT ☐ CD&L ☐ OTHER ☐

	Yes	No	N/A
1 Were custody seals on the outside of the cooler?	☐	☐	☒
2 Were custody seals intact?	☐	☐	☒
3 Were custody papers properly filled out(ink, singed, ect)?	☐	☐	☒
4 Did all bottles arrive in good condition(unbroken)?	☐	☐	☒
5 Did any VOA vials contain significant air bubbles?	☐	☐	☒
6 Were ice or ice packs present?	☐	☐	☒
7 Did all samples arrive within appropriate holding times?	☒	☐	☐
8 Where did the bottles originate? CAS/JAX	☐	CLIENT	☒

9 Temperature of cooler(s) upon receipt/within 0-6C?

	Temp.	Yes	No	N/A		Temp.	Yes	No	N/A
Cooler 1		☐	☐	☒	Cooler 3		☐	☐	☐
Cooler 2		☐	☐	☐	Cooler 4		☐	☐	☐

Date/Time Temperature Taken 7/17/01 10 15 **If No/NA, Explain**

Thermometer ID 2618380101-0015 ☐ Temp Blank ☐ Cooler Temp ☐

15-078-J-4 ☐ Sample Bottle ☐ IR Gun ☒

If out of temperature, client approval to run samples

Cooler Breakdown Date 7/17/01 By SS

	Yes	No	N/A
1 Were all the bottle labels complete(i e analysis, preservation, ect)	☒	☐	☐
2 Did all bottle labels and tags agree with custody papers?	☒	☐	☐
3 Were correct containers used for the test indicated?	☒	☐	☐

4 Air samples Cassettes/Tubes Intact ☐ Tedlar Bags Inflated ☐

Canisters Pressurized ☐ NA ☒

Explain any discrepancies

		Yes	No	Sample ID	Reagent	Volume Added
pH	Reagent					
>12	NaOH					
>9	NaOH+ZnAc					
<2	HNO3					
<2	H2SO4					
<2	HCl					
5-9*	P/PCB (608 Only)					

* If pH adjustment is required, use NaOH/or H2SO4 PM OK to adjust pH_____

YES= All samples OK NO=Samples were preserved at lab as listed

VOC Vial pH Verification(Tested after Analysis) Following Samples Exhibited pH >2				

Other Comments

2135

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST

Columbia Analytical Services INC
An Employee Owned Company

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DATE 07/12/2001 PAGE 1 OF 1

PROJECT NAME Protocol
PROJECT # 76710
COMPANY/ADDRESS Michigan Paperboard Company
79 East Fountain Street
Battle Creek, Michigan 49017 PHONE 616-963-4004
REPORT TO: Barb Russell
SAMPLER'S SIGNATURE Jim Hosking

ANALYSIS REQUEST

RPTA – Focused Sampling [X]
(Short List)

RPTA – Baseline Sampling [ ]
(Comprehensive)

SAMPLE I.D.	DATE	TIME	REMARKS
#1 Paper Machine			
Board Samples - Composite			
6/25 - 6/29			

RELINQUISHED BY:

Signature
Printed Name
Firm
Date/Time

RECEIVED BY:

Signature
Steven Sovich
Printed Name
CAS
Firm
7/12/01 1015
Date/Time

SPECIAL INSTRUCTIONS/COMMENTS:

INVOICE INFORMATION:

P.O.# 76710
Bill To Michigan Paperboard
79 East Fountain Street
Battle Creek, Michigan
49017

SAMPLE RECEIPT:

Shipping VIA:
Shipping to:
Condition:
Lab No:

DISTRIBUTION: WHITE - return to originator; YELLOW - lab; PINK - retained by originator

ACKNOWLEDGMENT OF RECEIPT OF SAMPLES

TO: Barb Russell

FROM: Tom Kissinger/Project Manager
Columbia Analytical Services, Inc.

This is to inform you that the samples received on 7/17/01
for your project Protocol/76710
have been assigned CAS service request number J2102135

A copy of our CAS service request or intercompany service request is attached. If you have any questions regarding the status of this work, please call me at (904) 739-2277.

Thank you for your business.

Number of pages (including cover sheet): 2

Columbia Analytical Services, Inc.
8540 Baycenter Road
Jacksonville, FL 32256
(904) 739-2277
(904) 739-2011 fax

Service Request J2102135

Project Name:	Protocol	Reviewed by.	THT	Date Received:	7/17/01 10 15
Project Number	76710	Logged in by.	SS	Date Required:	8/7/01
Client Name:	Michigan Paperboard Co	Rec'd by	SS	Copies of SR to: VOC	
Client Number:	7270089	Project Manager:	Tom Kissinger	SOC	2
Report To.	Barb Russell	P.O #.	76710	TCLP Sheet	
Address:	79 E Fountain St.			Metals	1
	Battle Creek, MI 49017			Gen Chem	
Phone:	616-963-4004			Micro	
Fax Number.	616-963-4425				
Special Instructions					

WATCH FOR SHORT HOLDING TIMES !!!!!!!!!!!!!!!!!

Sample Description.
Soil: ____
Water: ____
Other. X

Chain of Custody:
Yes. X
No: ____

Samples Stored:
Walk In Organic: R2
Walk In Inorganic: ____
Micro Refrigerator: ____
Hall: ____
VOA. ____

Reporting.
Tier: I
EDD: ____
DOD. ____

1	Pb	18	
2	8270C-paper	19	
3	8270C PNA SIMs-paper	20	
4		21	
5		22	
6		23	
7		24	
8		25	
9		26	
10		27	
11		28	
12		29	
13		30	
14		31	
15		32	
16		33	
17		34	

1-L Amber		
500 Amber		
16 oz glass		
8 oz glass		
2 oz glass		
250 Amber		
White plastic		
Red plastic		
Yellow plastic		
Green plastic		
VOA vial(HCl)		
VOA vial		
Other	1*5	
Lab J:		1 D
35		
36		
37		
38		
39		

Lab Codes	Sample ID	Test to be performed	Sample Date	Time	Matrix
J2102135-001	#1 Paper Machine	1-3	NA	NA	Paper

Composite Sheets before Analyzing

Columbia
Analytical
Services INC
An Employee Owned Company

April 24, 2001

Service Request No J2101014

Certification Numbers

Florida DOH	E82502
Louisiana	AI 30759
Massachusetts	M-FL937
New Hampshire	294297-A
North Carolina	527
South Carolina	96021001

Barb Russell
Michigan Paperboard Co
79 E Fountain St
Battle Creek, MI 49017

RE Project No 75715
Project Name Protocol

Dear Barb Russell

Enclosed are the results of the samples(s) submitted to our laboratory on April 04, 2001 For your reference, these analyses have been assigned our service request number J2101014

All analyses were performed according to our laboratory's quality assurance program All results are intended to be considered in the entirety, and Columbia Analytical Services, Inc (CAS) is not responsible for use of less than the complete report Results apply only to the samples analyzed

Please call if you have any questions

Respectfully submitted,

Columbia Analytical Services, Inc.

Tom Kissinger
Project Manager

TK/jg

8540 Baycenter Rd ▪ Jacksonville FL 32256 ▪ (904) 739 2277 ▪ Fax (904) 739 2011

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co
Project: Protocol / 75715
Sample Matrix: Paperboard

Service Request: J2101014
Date Collected: 3/30/01
Date Received: 4/4/01
Date Extracted: 4/4/01

Polynuclear Aromatic Hydrocarbons (PAHs)
EPA Methods 3550/8270C
Units mg/Kg (ppm)

Sample Name		**Paper Composite**	**Method Blank**
Lab Code		J2101014-001	EX210176-MB
Date Analyzed		4/11/01	4/10/01
Analyte	**MRL**		
Acenaphthene	0 01	U	U
Acenaphthylene	0 01	U	U
Anthracene	0 01	U	U
Benz(a)anthracene	0 01	U	U
Benzo(a)pyrene	0 01	U	U
Benzo(b)fluoranthene	0 01	U	U
Benzo(ghi)perylene	0 01	U	U
Benzo(k)fluoranthene	0 01	U	U
Chrysene	0 01	U	U
Dibenz(a,h)anthracene	0 01	U	U
Fluoranthene	0 01	U	U
Fluorene	0 01	U	U
Indeno(1,2,3-cd)pyrene	0 01	U	U
Naphthalene	0 01	U	U
Phenanthrene	0 01	0 02	U
Pyrene	0 01	0 03	U

U Not detected at or above the MRL

Approved By Tom D. Hissinger Date 4/24/01

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co	**Service Request:**	J2101014
Project:	Protocol / 75715	**Date Collected:**	3/30/01
Sample Matrix:	Paperboard	**Date Received:**	4/4/01
		Date Extracted:	4/4/01

Phthalate Esters
EPA Methods 3550/8270C
Units mg/Kg (ppm)

Sample Name		**Paper Composite**	**Method Blank**
Lab Code		J2101014-001	EX210176-MB
Date Analyzed		4/23/01	4/10/01
Analyte	**MRL**		
Bis(2-ethylhexyl) Phthalate	0 5	1 5 (a)	U
Butyl Benzyl Phthalate	0 5	1 7 (a)	U
Di-n-butyl Phthalate	0 5	2 4 (a)	U
Di-n-octyl Phthalate	0 5	U	U
Diethyl Phthalate	0 5	U	U
Dimethyl Phthalate	0 5	U	U

U Not detected at or above the MRL
(a) Analyte concentration is an estimate because the sample matrix interfered with the internal standards in the extract

Approved By Tom D. Hissinger Date 4/24/01

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co
Project: Protocol / 75715
Sample Matrix: Paper

Service Request: J2101014
Date Collected: 3/30/01
Date Received: 4/4/01
Date Extracted: 4/20/01

Total Metals
Units mg/Kg(ppm)
As Received Basis

Sample Name	**Paper Composite**
Lab Code	J2101014-001
Date Analyzed	4/23/01

Analyte	**EPA Method**	**MRL**	
Lead	6020	2	U

U Not detected at or above the MRL

Approved By Tom D. Hissinger Date 4/24/01

Cooler Receipt and Preservation Form

Project/Client: Protocol/Michigan Paperboard Co **SR Number:** J2101014

Cooler received on 4/4/01 by THT

Courier CAS ☐ UPS ☐ FEDEX ☐

CLIENT ☐ CD&L ☒ OTHER ☐

	Yes	No	N/A
1 Were custody seals on the outside of the cooler?	☐	☒	☐
2 Were custody papers properly filled out(ink, singed, ect)?	☒	☐	☐
3 Did all bottles arrive in good condition(unbroken)?	☒	☐	☐
4 Did any VOA vials contain significant air bubbles?	☐	☐	☒
5 Were ice or ice packs present?	☐	☒	☐
6 Did all samples arrive within appropriate holding times?	☒	☐	☐
7 Where did the bottles originate? CAS/JAX	☐	CLIENT	☒

8 Temperature of cooler(s) upon receipt/within 0-6C?

	Temp.	Yes	No	N/A		Temp.	Yes	No	N/A
Cooler 1	25 6	☐	☐	☒	Cooler 3		☐	☐	☐
Cooler 2		☐	☐	☐	Cooler 4		☐	☐	☐

Date/Time Temperature Taken 4/4/01 10 00 **If No/NA, Explain**

Thermometer ID 2618380101-0015 ☐ Temp Blank ☐ Cooler Temp ☐

15-078-J-4 ☐ Sample Bottle ☐ IR Gun ☒

If out of temperature, client approval to run samples

Cooler Breakdown Date 4/4/01 By THT

	Yes	No	N/A
1 Were all the bottle labels complete(i e analysis, preservation, ect)	☒	☐	☐
2 Did all bottle labels and tags agree with custody papers?	☒	☐	☐
3 Were correct containers used for the test indicated?	☒	☐	☐

4 Air samples Cassettes/Tubes Intact ☐ Tedlar Bags Inflated ☐

Canisters Pressurized ☐ NA ☒

Explain any discrepancies

		Yes	No	Sample ID	Reagent	Volume Added
pH	Reagent					
>12	NaOH					
>9	NaOH+ZnAc					
<2	HNO3					
<2	H2SO4					
<2	HCl					
5-9*	P/PCB (608 Only)					

* If pH adjustment is required, use NaOH/or H2SO4 PM OK to adjust pH_____

YES= All samples OK NO=Samples were preserved at lab as listed

VOC Vial pH Verification(Tested after Analysis) Following Samples Exhibited pH >2				

Other Comments

Columbia Analytical Services INC
An Employee Owned Company

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST

8540 Baycenter Rd • Jacksonville, FL 32256 • (904) 739-2277 • 800-695-7222 • FAX (904) 739-2011

DATE 04/03/2001 PAGE 1 OF 1

PROJECT NAME PROTOCOL
PROJECT # 75715
COMPANY/ADDRESS MICHIGAN PAPERBOARD CO.
79 EAST FOUNTAIN STREET
BATTLE CREEK, MICHIGAN PHONE 616-963-4004
REPORT TO BARB RUSSELL
SAMPLER'S SIGNATURE JIM HOSKING

ANALYSIS REQUEST

RPTA – Focused Sampling (Short List) X

RPTA – Baseline Sampling (Comprehensive) [ ]

SAMPLE I.D	DATE	TIME	REMARKS
#2 PAPER MACHINE			
BOARD SAMPLES - Composite			
3/26 - 3/30			

RELINQUISHED BY:

Signature
Printed Name
Firm
Date/Time

RECEIVED BY:

Signature: Travis Trader
Printed Name: Travis Trader
Firm: CAS
Date/Time: 4/4/01 1000

SPECIAL INSTRUCTIONS/COMMENTS

1014

INVOICE INFORMATION:

PO # 75715
Bill To Michigan Paperboard
79 East Fountain St
Battle Creek, Michigan
49017

SAMPLE RECEIPT:

Shipping VIA
Shipping to
Condition
Lab No

DISTRIBUTION WHITE - return to originator, YELLOW - lab, PINK - retained by originator

Columbia Analytical Services inc.
An Employee Owned Company

8540 Baycenter Road
Jacksonville, FL 32256
(904) 739-2277 Voice
(904) 739-2011 FAX

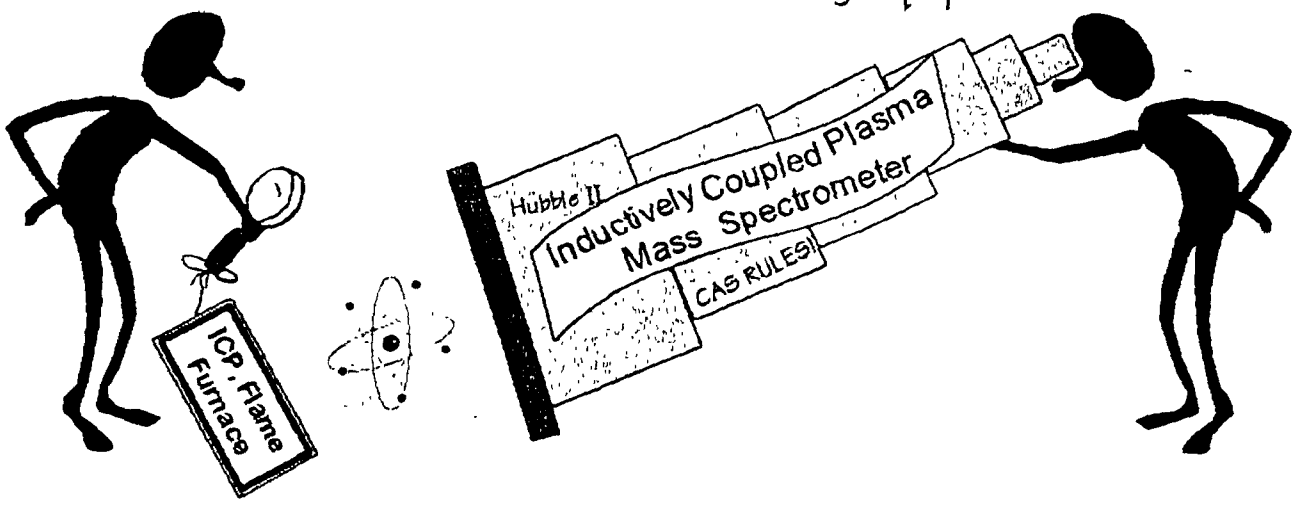
FAX TRANSMITTAL

TO: Pam Russell	FROM: Mandy Thomas
FAX# (616) 9634425	DATE: 4/25/01
RE:	

MESSAGE: Analytical Results for J2101014.

Thank you!

Wonder what the difference is between an ICP-MS and other Metals testing equipment?



Our new ICP-MS offers not only lower detection and reporting limits, but also much greater accuracy and confirmation of results. Our *Plasma Quad III ICP-MS* by VG® is the latest model available, and enables CAS to continue to provide state-of-the-art science and *old fashioned* customer service.

~ ICP-MS utilizes EPA approved methods 6020 and 200.8 ~

NUMBER OF PAGES 5 **(Including cover sheet)**

Important Note

The documents accompanying this transmission may contain information which is legally privileged and/or confidential. The information is intended only for the use of the individual or entity named above. If you are not the intended recipient, or the person responsible for delivering it to the intended recipient, you are hereby notified that any disclosure, copying, distribution, or use of any of the information contained in this transmission is strictly **PROHIBITED**. If you have received this transmission in error, please immediately notify us by telephone and mail the original transmission to us. Thank you for your cooperation and assistance.

Columbia Analytical Services INC.
An Employee-Owned Company

April 24, 2001

Service Request No. J2101014

Certification Numbers:

Florida DOH:	E82502
Louisiana:	AI 30759
Massachusetts:	M-FL937
New Hampshire:	294297-A
North Carolina:	527
South Carolina:	96021001

Barb Russell
Michigan Paperboard Co.
79 E Fountain St.
Battle Creek, MI 49017

RE: Project No.: 75715
Project Name: Protocol

Dear Barb Russell:

Enclosed are the results of the samples(s) submitted to our laboratory on April 04, 2001. For your reference, these analyses have been assigned our service request number: J2101014.

All analyses were performed according to our laboratory's quality assurance program. All results are intended to be considered in the entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions.

Respectfully submitted,

Columbia Analytical Services, Inc.

Tom Kissinger
Project Manager

TK/jg

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: Protocol / 75715
Sample Matrix: Paperboard

Service Request: J2101014
Date Collected: 3/30/01
Date Received: 4/4/01
Date Extracted: 4/4/01

Polynuclear Aromatic Hydrocarbons (PAHs)
EPA Methods 3550/8270C
Units: mg/Kg (ppm)

		Sample Name:	**Paper Composite**	**Method Blank**
		Lab Code:	J2101014-001	EX210176-MB
		Date Analyzed:	4/11/01	4/10/01
Analyte	**MRL**			
Acenaphthene	0.01		U	U
Acenaphthylene	0.01		U	U
Anthracene	0.01		U	U
Benz(a)anthracene	0.01		U	U
Benzo(a)pyrene	0.01		U	U
Benzo(b)fluoranthene	0.01		U	U
Benzo(ghi)perylene	0.01		U	U
Benzo(k)fluoranthene	0.01		U	U
Chrysene	0.01		U	U
Dibenz(a,h)anthracene	0.01		U	U
Fluoranthene	0.01		U	U
Fluorene	0.01		U	U
Indeno(1,2,3-cd)pyrene	0.01		U	U
Naphthalene	0.01		U	U
Phenanthrene	0.01		0.02	U
Pyrene	0.01		0.03	U

U Not detected at or above the MRL.

Approved By: Tom D. Kissinger Date: 4/24/01

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: Protocol / 75715
Sample Matrix: Paperboard

Service Request: J2101014
Date Collected: 3/30/01
Date Received: 4/4/01
Date Extracted: 4/4/01

Phthalate Esters
EPA Methods 3550/8270C
Units: mg/Kg (ppm)

		Sample Name:	**Paper Composite**	**Method Blank**
		Lab Code:	J2101014-001	EX210176-MB
		Date Analyzed:	4/23/01	4/10/01
Analyte	**MRL**			
Bis(2-ethylhexyl) Phthalate	0.5		1.5 (a)	U
Butyl Benzyl Phthalate	0.5		1.7 (a)	U
Di-n-butyl Phthalate	0.5		2.4 (a)	U
Di-n-octyl Phthalate	0.5		U	U
Diethyl Phthalate	0.5		U	U
Dimethyl Phthalate	0.5		U	U

U Not detected at or above the MRL.
(a) Analyte concentration is an estimate because the sample matrix interfered with the internal standards in the extract.

Approved By: Tom D. Hissinger Date: 4/24/01

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: Protocol / 75715
Sample Matrix: Paper

Service Request: J2101014
Date Collected: 3/30/01
Date Received: 4/4/01
Date Extracted: 4/20/01

Total Metals
Units: mg/Kg(ppm)
As Received Basis

Sample Name:	**Paper Composite**
Lab Code:	J2101014-001
Date Analyzed:	4/23/01

Analyte	**EPA Method**	**MRL**	
Lead	6020	2	U

U Not detected at or above the MRL.

Approved By Tom D. Hissinger Date: 4/24/01

WEST MICHIGAN SCALES
943 Industrial Parkway
Plainwell, MI 49080

ISO 9002 REGISTERED

CALIBRATION RECORD

F-CCR-OQT REV B

Page 1 of ____ Date ____

MFG / Model Number	Serial Number/ Customer I D	Location	Scale Capacity/ Graduation	Weight Applied	Error/Graduation Units of Measure: Before	Error/Graduation Units of Measure: After	Comments/Service Rendered
			15000 lb	-0-			Cleaned ☑ Sticker ☑ Visual ☑ Counting ☐
CORNER & CENTER TEST							
Before		After					
1	2	1	2				
Center		Center					
4	3	4	3				
				-0-			Cleaned ☐ Sticker ☐ Visual ☐ Counting ☐
CORNER & CENTER TEST							
Before		After					
1 750	2 750	1 757	2 750		0		
Center		Center			0		
4	3 751	4	3				
				-0-			Cleaned ☐ Sticker ☐ Visual ☑ Counting ☐
CORNER & CENTER TEST							
Before		After					
1	2	1	2				
Center		Center					
4	3	4	3				
				-0-			Cleaned ☑ Sticker ☑ Visual ☑ Counting ☑
CORNER & CENTER TEST							
Before		After					
1	2	1	2				
Center		Center					
4	3	4	3				

SERVICE ORDER # 11470 TECHNICIAN ____ CUSTOMER/CONTACT ____

Columbia Analytical Services INC.
An Employee-Owned Company

February 20, 2001

Service Request No. J2100062

Certification Numbers:

Florida DOH:	E82502
Louisiana:	AI 30759
Massachusetts:	M-FL937
New Hampshire:	294297-A
North Carolina:	527
South Carolina:	96021001

Barb Russell
Michigan Paperboard Co.
79 E Fountain St.
Battle Creek, MI 49017

RE Project No.: 74727
Project Name: Protocol

Dear Barb Russell:

Enclosed are the results of the samples(s) submitted to our laboratory on January 09, 2001. For your reference, these analyses have been assigned our service request number: J2100062.

All analyses were performed according to our laboratory's quality assurance program. All results are intended to be considered in the entirety, and Columbia Analytical Services, Inc (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed

Please call if you have any questions.

Respectfully submitted,

Columbia Analytical Services, Inc.

Tom Kissinger
Project Manager

TK/jg

8540 Baycenter Rd. ▪ Jacksonville FL 32256 ▪ (904) 739-2277 ▪ Fax (904) 739-2011

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: Protocol / 74727
Sample Matrix: Paperboard

Service Request: J2100062
Date Collected: 12/15/00
Date Received: 1/9/01
Date Extracted: NA

Volatile Organic Compounds
EPA Method 8260B
Units: mg/Kg (ppm)

		#1 Machine Board	
	Sample Name:	**Samples**	**Method Blank**
	Lab Code:	J2100062-001	MS521A19-MB
	Date Analyzed:	1/19/01	1/19/01
Analyte	**MRL**		
Benzene	0.01	U	U
Bromobenzene	0.01	U	U
Bromochloromethane	0.01	U	U
Bromodichloromethane	0.01	U	U
Bromoform	0.01	U	U
Bromomethane	0.01	U	U
Carbon Tetrachloride	0.01	U	U
Chlorobenzene	0.01	U	U
Chloroethane	0.01	U	U
Chloroform	0.01	U	U
Chloromethane	0.01	U	U
2-Chlorotoluene	0.04	U	U
4-Chlorotoluene	0.04	U	U
1,2-Dibromo-3-chloropropane (DBCP)	0.04	U	U
Dibromochloromethane	0.01	U	U
1,2-Dibromoethane (EDB)	0.04	U	U
Dibromomethane	0.01	U	U
Dichlorodifluoromethane	0.01	U	U
1,1-Dichloroethane	0.01	U	U
1,2-Dichloroethane	0.01	U	U
1,1-Dichloroethene	0.01	U	U
cis-1,2-Dichloroethene	0.01	U	U
trans-1,2-Dichloroethene	0.01	U	U
1,2-Dichloropropane	0.01	U	U
cis-1,3-Dichloropropene	0.01	U	U
trans-1,3-Dichloropropene	0.01	U	U
Ethylbenzene	0.01	U	U
Isopropylbenzene (Cumene)	0.04	U	U
4-Isopropyltoluene (p-Cymene)	0.04	U	U
Methylene Chloride	0.1	U	U
n-Proplybenzene	0.04	U	U
Styrene	0.01	U	U
1,1,1,2-Tetrachloroethane	0.01	U	U
1,1,2,2-Tetrachloroethane	0.01	U	U
Tetrachloroethene (PCE)	0.01	U	U
Toluene	0.01	U	U
1,1,1-Trichloroethane (TCA)	0.01	U	U
1,1,2-Trichloroethane	0.01	U	U
Trichloroethene (TCE)	0.01	U	U
Trichlorofluoromethane (CFC 11)	0.01	U	U
1,2,3-Trichloropropane	0.01	U	U
1,2,4-Trimethylbenzene	0.04	U	U
Vinyl Chloride	0.01	U	U
Total Xylenes	0.01	U	U

U Not detected at or above the MRL.

Approved By: Tom D. Hussinger Date: 2/20/01

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: Protocol
Sample Matrix: Paperboard

Service Request: J2100062
Date Collected: 12/15/00
Date Received: 1/9/01
Date Extracted: 1/10/01

Phthalate Esters
EPA Methods 3550/8270C
Units: mg/Kg (ppm)

		#1 Machine Board	
	Sample Name:	**Samples**	**Method Blank**
	Lab Code:	J2100062-001 (a)	EX210020-MB
	Date Analyzed:	2/13/01	2/12/01
Analyte	**MRL**		
Bis(2-ethylhexyl) Phthalate	0.5	4.4	U
Butyl Benzyl Phthalate	0.5	4.6	U
Di-n-butyl Phthalate	0.5	4.1	U
Di-n-octyl Phthalate	0.5	2.5U	U
Diethyl Phthalate	0.5	2.5U	U
Dimethyl Phthalate	0.5	2.5U	U

U Not detected at or above the MRL.
(a) MRL elevated due to matrix interferences. The sample would not concentrate less than 5 mL. Dilution factor 1:5

Approved By: Tam D. Ilsinger Date: 2/20/01

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: Protocol / 74727
Sample Matrix: Paperboard

Service Request: J2100062
Date Collected: 12/15/00
Date Received: 1/9/01
Date Extracted: 1/10/01

Organochlorine Pesticides
EPA Method 3550/8081
Units: mg/Kg (ppm)

		#1 Machine	
	Sample Name:	**Board Samples**	**Method Blank**
	Lab Code:	J2100062-001	EX210019-MB
	Date Analyzed:	1/27/01	1/27/01
Analyte	**MRL**		
Aldrin	0.001	U	U
Alpha-BHC	0.001	U	U
Beta-BHC	0.001	U	U
Delta-BHC	0.001	U	U
Gamma-BHC (Lindane)	0.001	U	U
Chlordane, alpha	0.005	U	U
Chlordane, gamma	0.005	U	U
4,4'-DDD	0.001	U	U
4,4'-DDE	0.001	U	U
4,4'-DDT	0.001	U	U
Dieldrin	0.001	U	U
Endosulfan I	0.001	U	U
Endosulfan II	0.001	U	U
Endosulfan Sulfate	0.001	U	U
Endrin	0.001	U	U
Endrin Ketone	0.001	U	U
Heptachlor	0.001	U	U
Heptachlor Epoxide	0.001	U	U
Methoxychlor	0.005	U	U
Mirex	0.005	U	U
Toxaphene	0.05	U	U

U Not detected at or above the MRL.

Approved By: Tom D. Hissinger Date: 2/20/01

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co.	**Service Request:**	J2100062
Project:	Protocol / 74727	**Date Collected:**	12/15/00
Sample Matrix:	Paperboard	**Date Received:**	1/9/01
		Date Extracted:	1/10/01

Polychlorinated Biphenyls (PCBs)
EPA Method 3550/8082
Units: mg/Kg (ppm)

		#1 Machine	
	Sample Name:	**Board Samples**	**Method Blank**
	Lab Code:	J2100062-001	EX210019-MB
	Date Analyzed:	1/27/01	1/27/01
Analyte	**MRL**		
PCBs: Aroclor 1016	0.05	U	U
Aroclor 1221	0.05	U	U
Aroclor 1232	0.05	U	U
Aroclor 1242	0.05	U	U
Aroclor 1248	0.05	U	U
Aroclor 1254	0.05	U	U
Aroclor 1260	0.05	U	U

U Not detected at or above the MRL.

Approved By: Tom D. Hissinger Date: 2/20/01

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co.	**Service Request:**	J2100062
Project:	Protocol / 74727	**Date Collected:**	12/15/00
Sample Matrix:	Paperboard	**Date Received:**	1/9/01
		Date Extracted:	1/22/01

TCDD & TCDF
Units: pg/g (ppt)

		#1 Machine	
	Sample Name:	**Board Samples**	**Method Blank**
	Lab Code:	J2100062-001	J210122-MB
	Date Analyzed:	1/26/01	1/26/01
Analyte	**MRL**	**Result**	**Result**
2,3,7,8-TCDD	1	U	U
2,3,7,8-TCDF	1	U	U

U Not detected at or above the MRL.

Approved By: Tom D. Hissinger Date: 2/20/01

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: Protocol / 74727
Sample Matrix: Paperboard

Service Request: J2100062
Date Collected: 12/15/00
Date Received: 1/9/01
Date Extracted: 1/20/01

Total Metals
Units: mg/Kg(ppm)
As Received Basis

	Sample Name:	**#1 Machine Board Samples**
	Lab Code:	J2100062-001
	Date Analyzed:	1/23/01

Analyte	**EPA Method**	**MRL**	
Antimony	6020	0.5	U
Arsenic	6020	0.5	U
Barium	6020	10	15
Beryllium	6020	10	U
Cadmium	6020	2	U
Chromium	6020	10	U
Copper	6020	10	18
Lead	6020	2	U
Manganese	6020	10	28
Mercury	7471A	1	U
Nickel	6020	10	U
Selenium	6020	10	U
Silver	6020	10	U
Zinc	6020	10	22

U Not detected at or above the MRL.

Approved By: Tom D. Ilsinger Date: 2/20/01

Cooler Receipt and Preservation Form

Project/Client: Protocol/Michigan Paperboard Co. **SR Number:** J2100062

Cooler received on 1/9/01 by: TT

Courier: CAS ☐ UPS ☒ FEDEX ☐

CLIENT ☐ CD&L ☐ OTHER ☐

	Yes	No	N/A
1. Were custody seals on the outside of the cooler?	☒	☐	☐
2. Were custody papers properly filled out(ink, singed, ect.)?	☒	☐	☐
3. Did all bottles arrive in good condition(unbroken)?	☒	☐	☐
4. Did any VOA vials contain significant air bubbles?	☐	☐	☒
5. Were ice or ice packs present?	☐	☐	☒
6. Did all samples arrive within appropriate holding times?	☒	☐	☐
7. Where did the bottles originate? CAS/JAX	☐	CLIENT	☒

8. Temperature of cooler(s) upon receipt/within 0-6C?:

	Temp.	Yes	No	N/A		Temp.	Yes	No	N/A
Cooler 1:	N/A	☐	☐	☒	Cooler 3:		☐	☐	☐
Cooler 2:		☐	☐	☐	Cooler 4:		☐	☐	☐

Date/Time Temperature Taken: 1/9/01 10:15 **If No/NA, Explain** Paper Samples

Thermometer ID: 2618380101-0015 ☐ Temp Blank: ☐ Cooler Temp.: ☐

15-078-J-4 ☐ Sample Bottle: ☐ IR. Gun: ☐

If out of temperature, client approval to run samples _____

Cooler Breakdown: Date: 1/9/01 By: TT

	Yes	No	N/A
1. Were all the bottle labels complete(i.e. analysis, preservation, ect.)	☒	☐	☐
2. Did all bottle labels and tags agree with custody papers?	☒	☐	☐
3. Were correct containers used for the test indicated?	☒	☐	☐

4. Air samples: Cassettes/Tubes Intact: ☐ Tedlar Bags Inflated: ☐

Canisters Pressurized: ☐ NA: ☒

Explain any discrepancies _____

		Yes	No	Sample ID	Reagent	Volume Added
pH	Reagent					
>12	NaOH					
>9	NaOH+ZnAc					
<2	HNO3					
<2	H2SO4					
<2	HCl					
5-9*	P/PCB (608 Only)					

* If pH adjustment is required, use NaOH/or H2SO4 PM OK to adjust pH_____

YES= All samples OK NO=Samples were preserved at lab as listed

VOC Vial pH Verification(Tested after Analysis) Following Samples Exhibited pH >2				

Other Comments: _____

Columbia Analytical Services INC
An Employee-Owned Company

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST

8540 Baycenter Rd. • Jacksonville, FL 32256 • (904) 739-2277 • 800-695-7222 • FAX (904) 739-2011

DATE 01/08/2001 PAGE 1 OF 1

PROJECT NAME Protocol
PROJECT # 74727
COMPANY/ADDRESS Michigan Paperboard Company
79 East Fountain Street
Battle Creek, Michigan PHONE 49017
REPORT TO: Barbara Russell
SAMPLER'S SIGNATURE

ANALYSIS REQUEST

RPTA – Focused Sampling ☐
(Short List)

RPTA – Baseline Sampling ☒
(Comprehensive)

SAMPLE I.D.	DATE	TIME	REMARKS
#1 Machine Board Samples 12/12 - 12/15	12/12 thru 12/15		
Year 2000			

RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

RECEIVED BY:
Signature: Travis Trader
Printed Name: Travis Trader
Firm: CAS
Date/Time: 1/9/01 1030

SPECIAL INSTRUCTIONS/COMMENTS:

INVOICE INFORMATION:
P.O.# 74727
Bill To Michigan Paperboard
79 East Fountain St.
Battle Creek, Michigan
49017

SAMPLE RECEIPT:
Shipping VIA:
Shipping to:
Condition:
Lab No:

62

DISTRIBUTION: WHITE - return to originator; YELLOW - lab; PINK - retained by originator

ACKNOWLEDGMENT OF RECEIPT OF SAMPLES

TO: Barb Russell

FROM: Tom Kissinger/Project Manager
Columbia Analytical Services, Inc.

This is to inform you that the samples received on 1/9/01
for your project Protocol/74727
have been assigned CAS service request number J2100062

A copy of our CAS service request or intercompany service request is attached. If you have any questions regarding the status of this work, please call me at (904) 739-2277.

Thank you for your business.

Number of pages (including cover sheet): 2

Columbia Analytical Services, Inc.
8540 Baycenter Road
Jacksonville, FL 32256
(904) 739-2277
(904) 739-2011 fax

e:	Protocol
Pro mber	74727
Pr ame:	Michigan Paperboard Co.
umber:	7270089
To:	Barb Russell
ress:	79 E Fountain St.
	Battle Creek, MI 49017
hone:	616-963-4004
Fax Number:	616-963-4425
Special Instructions:	

Service Request J2100062

Reviewed by: THT
Logged in by: MJP
Rec'd by: TT
Project Manager: Tom Kissinger
P.O. #: 74727

Date Received: 1/9/01 10:15
Date Required: 1/30/01

WATCH FOR SHORT HOLDING TIMES
!!!!!!!!!!!!!!!!

Copies of SR to:

VOC	1
SOC	4
Metals	1
Gen Chem	
Micro	
1-L Amber	
500 Amber	
16 oz glass	
8 oz glass	
VOA soil	
250 Amber	
White plastic	
Red plastic	
Yellow plastic	
Green plastic	
VOA vial(HCl)	
VOA vial	
Other	1

Sample Description:
Soil:
Water:
Other: X

Chain of Custody:
Yes: X
No:

Samples Stored:
Walk In Organic: T1
Walk In Inorganic:
Micro Refrigerator:
Hall:
VOA: X

Reporting:
Tier: I
EDD:
DOD:

1	Sb,As,Pb,Se,Hg,Ba,Be,Cd	18			
2	Cr,Cu,Mn,Ni,Ag,Zn	19			
3	8081A	20			
4	8082	21			
5	8270C	22			
6	8260B(Low Level)	23			
7		24			
8		25			
9		26			
10		27			
11		28			
12		29	Lab J:		I.D.
13		30	35	2-3-7-8 TCDD/TCDF by 8290	
14		31	36		
15		32	37		
16		33	38		
17		34	39		

Lab Codes	Sample ID	Test to be performed	Sample Date	Time	Matrix
J2100062-001	#1 Machine Board Samples	1-6, 35	12/15/00	N/A	Paperboard

Composite Sheets Before Analyzing

Columbia Analytical Services INC.
An Employee-Owned Company

October 27, 2000

Service Request No. J2003269

Certification Numbers:

Florida DOH:	E82502
Louisiana:	AI 30759
Massachusetts:	M-FL937
New Hampshire:	294297-A
North Carolina:	527
South Carolina:	96021001

Barb Russell
Michigan Paperboard Co.
79 E Fountain St.
Battle Creek, MI 49017

RE: Project No.: 73638
Project Name: Protocol

Dear Barb Russell:

Enclosed are the results of the samples(s) submitted to our laboratory on September 27, 2000. For your reference, these analyses have been assigned our service request number: J2003269.

All analyses were performed according to our laboratory's quality assurance program. All results are intended to be considered in the entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions.

Respectfully submitted,

Columbia Analytical Services, Inc.

Tom Kissinger
Project Manager

TK/jg

8540 Baycenter Rd. ▪ Jacksonville, FL 32256 ▪ (904) 739-2277 ▪ Fax (904) 739-2011

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: Protocol / 73638
Sample Matrix: Paperboard

Service Request: J2003269
Date Collected: 9/15/00
Date Received: 9/27/00
Date Extracted: 10/5/00

Semivolatile Organic Compounds
EPA Methods 3550/8270C
Units: mg/Kg (ppm)

		#2 Machine Board Samples	
	Sample Name:	**Composite**	**Method Blank**
	Lab Code:	J2003269-001	EX200414-MB
	Date Analyzed:	10/24/00	10/24/00
Analyte	**MRL**		
Benzidine	0.5	U	U
Benzoic Acid	5	U	U
Benzyl alcohol	0.5	U	U
Biphenyl*	0.5	U	U
Bis(2-ethylhexyl) Phthalate	0.5	0.75	U
Butyl Benzyl Phthalate	0.5	U	U
Carbazole	0.5	U	U
4-Chloro-3-methylphenol	1	U	U
4-Chloroaniline	0.5	U	U
2-Chloronaphthalene	0.5	U	U
2-Chlorophenol	0.5	U	U
Di-n-butyl Phthalate	0.5	U	U
Di-n-octyl Phthalate	0.5	U	U
Dibenzofuran	0.5	U	U
1,2-Dichlorobenzene	0.5	U	U
1,3-Dichlorobenzene	0.5	U	U
1,4-Dichlorobenzene	0.5	U	U
3,3'-Dichlorobenzidine	1	U	U
2,4-Dichlorophenol	0.5	U	U
Diethyl Phthalate	0.5	U	U
Dimethyl Phthalate	0.5	U	U
2,4-Dimethylphenol	0.5	U	U
2-Methyl-4,6-dinitrophenol	1	U	U

* Searched for as a tentatively identified compound.
U Not detected at or above the MRL.

Approved By: Tam D. Hassing Date: 10/27/00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: Protocol / 73638
Sample Matrix: Paperboard

Service Request: J2003269
Date Collected: 9/15/00
Date Received: 9/27/00
Date Extracted: 10/5/00

Semivolatile Organic Compounds
EPA Methods 3550/8270C
Units: mg/Kg (ppm)

		#2 Machine Board Samples	
	Sample Name:	**Composite**	**Method Blank**
	Lab Code:	J2003269-001	EX200414-MB
	Date Analyzed:	10/24/00	10/24/00
Analyte	**MRL**		
2,4-Dinitrophenol	1	U	U
2,4-Dinitrotoluene	0.5	U	U
2,6-Dinitrotoluene	0.5	U	U
Hexachlorobenzene	0.5	U	U
Hexachlorobutadiene	0.5	U	U
Hexachlorocyclopentadiene	0.5	U	U
Hexachloroethane	0.5	U	U
Isophorone	0.5	U	U
1-Methylnaphthalene*	0.5	U	U
2-Methylnaphthalene	0.5	U	U
2-Methyphenol	0.5	U	U
3- & 4-Methyphenol	0.5	U	U
N-Nitrosodi-n-propylamine	0.5	U	U
N-Nitrosodimethylamine	0.5	U	U
N-Nitrosodiphenylamine	0.5	U	U
2-Nitroaniline	0.5	U	U
3-Nitroaniline	0.5	U	U
4-Nitroaniline	0.5	U	U
Nitrobenzene	0.5	U	U
2-Nitrophenol	0.5	U	U
4-Nitrophenol	1	U	U

* Searched for as a tentatively identified compound.
U Not detected at or above the MRL.

Approved By: Tom D. Hessinger Date: 10/27/00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: Protocol / 73638
Sample Matrix: Paperboard

Service Request: J2003269
Date Collected: 9/15/00
Date Received: 9/27/00
Date Extracted: 10/5/00

Semivolatile Organic Compounds
EPA Methods 3550/8270C
Units: mg/Kg (ppm)

		#2 Machine Board Samples	
	Sample Name:	**Composite**	**Method Blank**
	Lab Code:	J2003269-001	EX200414-MB
	Date Analyzed:	10/24/00	10/24/00
Analyte	**MRL**		
2, 2'-Oxybis(1-chloropropane)	1	U	U
Pentachlorophenol	1	U	U
Phenol	0.5	U	U
Pyridine	0.5	U	U
2,3,4,6-Tetrachlorophenol*	0.5	U	U
1,2,4-Trichlorobenzene	0.5	U	U
2,4,5-Trichlorophenol	0.5	U	U
2,4,6-Trichlorophenol	0.5	U	U
Bis(2-chloroethoxy)methane	0.5	U	U
Bis(2-chloroethyl) Ether	0.5	U	U

* Searched for as a tentatively identified compound.
U Not detected at or above the MRL.

Approved By: Tom D. Hissinger Date: 10/27/00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co.	**Service Request:**	J2003269
Project:	Protocol / 73638	**Date Collected:**	9/15/00
Sample Matrix:	Paperboard	**Date Received:**	9/27/00
		Date Extracted:	10/5/00

Polynuclear Aromatic Hydrocarbons (PAHs)
EPA Methods 3550/8270C
Units: mg/Kg (ppm)

		#2 Machine Board Samples	
	Sample Name:	**Composite**	**Method Blank**
	Lab Code:	J2003269-001	EX200414-MB
	Date Analyzed:	10/13/00	10/13/00
Analyte	**MRL**		
Acenaphthene	0.01	U	U
Acenaphthylene	0.01	U	U
Anthracene	0.01	U	U
Benz(a)anthracene	0.01	U	U
Benzo(a)pyrene	0.01	U	U
Benzo(b)fluoranthene	0.01	U	U
Benzo(ghi)perylene	0.01	U	U
Benzo(k)fluoranthene	0.01	U	U
Chrysene	0.01	U	U
Dibenz(a,h)anthracene	0.01	U	U
Fluoranthene	0.01	U	U
Fluorene	0.01	U	U
Indeno(1,2,3-cd)pyrene	0.01	U	U
Naphthalene	0.01	U	U
Phenanthrene	0.01	U	U
Pyrene	0.01	U	U

U Not detected at or above the MRL.

Approved By: Tom D. Thissen Date: 10/27/00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co.	**Service Request:**	J2003269
Project:	Protocol / 73638	**Date Collected:**	9/15/00
Sample Matrix:	Paperboard	**Date Received:**	9/27/00
		Date Extracted:	9/28/00

Total Metals
Units: mg/Kg(ppm)
As Received Basis

Sample Name:		**#2 Machine Board Samples**
Lab Code:		J2003269-001
Date Analyzed:		10/18/00
Analyte	**EPA Method**	**MRL**
Lead	6020	2	U

U Not detected at or above the MRL.

Approved By: Tom D. Hissinger Date: 10/27/00

Figure 8-1
Cooler Receipt and Preservation Form

Project/Client Protocol / Michigan Paperboard Service Request Number J2003269.

Cooler received on 9/27/00 by: RJG COURIER: CAS (UPS) FEDEX CD&L CLIENT

1. Were custody seals on outside of cooler? YES (NO)
2. Were custody papers properly filled out (ink, signed, etc.)? (YES) NO
3. Did all bottles arrive in good condition (unbroken)? (YES) NO
4. Did any VOA vials contain significant air bubbles? YES NO (NA)
5. Were Ice or Ice packs present? YES (NO)
6. Where did the bottles originate? CAS/JAX, (CLIENT)
7. Temperature of cooler(s) upon receipt: NA

Is the temperature within 0° - 6° C?:	Yes ?	Yes ?	Yes ?	Yes ?	Yes ?
If No, Explain Below	No ?	No ?	No ?	No ?	No ?

Date/Time Temperatures Taken: NA

Thermometer ID:_____ Temp Blank Sample Bottle Cooler Temp. IR Gun

If out of Temperature, Client Approval to Run Samples_____

Cooler Breakdown: Date: 9/27/00 by: RJG

1. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
2. Did all bottle labels and tags agree with custody papers? (YES) NO
3. Were correct containers used for the tests indicated? (YES) NO
4. Air samples: Cassettes/Tubes Intact Canisters Pressurized Tedlar® Bags Inflated (NA)

Explain any discrepancies: Paper Samples

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO_3					
2	H_2SO_4					
5-9*	P/PCBs (608 only)					

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH_____

*If pH adjustment is required, use NaOH and/or H_2SO_4

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2				

Other Comments:

Columbia Analytical Services INC
An Employee-Owned Company

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST

8540 Baycenter Rd. • Jacksonville, FL 32256 • (904) 739-2277 • 800-695-7222 • FAX (904) 739-2011

DATE 09/26/2000 PAGE 1 OF 1

PROJECT NAME Protocol
PROJECT # 73638
COMPANY/ADDRESS Michigan Paperboard Company
79 East Fountain Street
Battle Creek, Michigan 49017 PHONE 616-963-4004
REPORT TO: Barb Russell
SAMPLER'S SIGNATURE Jim Hoskins

ANALYSIS REQUEST

RPTA – Focused Sampling ☒
(Short List)

RPTA – Baseline Sampling ☐
(Comprehensive)

SAMPLE I.D.	DATE	TIME	REMARKS
#2 Machine Board Samples	9/11 - 9/15		
composite 9/11, 9/12, 9/13, 9/14, 9/15			

RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

RECEIVED BY:
Signature: Ra General
Printed Name: RAIMA GENERAL
Firm: CAS
Date/Time: 9/27/00 1000

SPECIAL INSTRUCTIONS/COMMENTS:

3269

INVOICE INFORMATION:
P.O.# 73638
Bill To Michigan Paperboard
79 East Fountain Street
Battle Creek Michigan
49017

SAMPLE RECEIPT:
Shipping VIA:
Shipping to:
Condition:
Lab No:

DISTRIBUTION: WHITE - return to originator; YELLOW - lab; PINK - retained by originator

ACKNOWLEDGMENT OF RECEIPT OF SAMPLES

TO: Barb Russell

FROM: Tom Kissinger/Project Manager
Columbia Analytical Services, Inc.

This is to inform you that the samples received on 9/27/00
for your project Protocol/73638
have been assigned CAS service request number J2003269

A copy of our CAS service request or intercompany service request is attached. If you have any questions regarding the status of this work, please call me at (904) 739-2277.

Thank you for your business.

Number of pages (including cover sheet): 2

Columbia Analytical Services, Inc.
8540 Baycenter Road
Jacksonville, FL 32256
(904) 739-2277
(904) 739-2011 fax

Project Name:	Protocol
Project Number	73638
Client Name:	Michigan Paperboard Co.
Client Number:	7270089
Report To:	Barb Russell
Address:	79 E Fountain St.
	Battle Creek, MI 49017
Phone:	616-963-4004
Fax Number:	616-963-4425
Special Instructions:	

Service Request J2003269

Reviewed by: THT
Logged in by: RG
Rec'd by: RG
Project Manager: Tom Kissinger
P.O. #: 73638

Date Received: 9/27/00 10:00
Date Required: 10/18/00

WATCH FOR SHORT HOLDING TIMES
!!!!!!!!!!!!!!!!!

Sample Description:
Soil:
Water:
Other: X

Chain of Custody:
Yes: X
No:

Samples Stored:
Walk In Organic: R3
Walk In Inorganic:
Micro Refrigerator:
Hall:
VOA:

Reporting:
Tier: I
EDD:
DOD:

Copies of SR to:

VOC	
SOC	1
Metals	1
Gen Chem	
Micro	
1-L Amber	
500 Amber	
16 oz glass	
8 oz glass	
VOA soil	
250 EDB	
White plastic	
Red plastic	
Yellow plastic	
Green plastic	
VOA vial(HCl)	
VOA vial	
Other	1

1	Pb	18	
2	8270C BNA+PNA SIMs	19	
3		20	
4		21	
5		22	
6		23	
7		24	
8		25	
9		26	
10		27	
11		28	
12		29	
13		30	
14		31	
15		32	
16		33	
17		34	

Lab J:		I.D.
35		
36		
37		
38		
39		

Lab Codes	Sample ID	Test to be performed	Sample Date	Time	Matrix
J2003269-001	#2 Machine Board Samples Composite	1,2	9/15/00	NA	Paperboard

Composite Sheets Before Analyzing

Columbia Analytical Services, Inc.
8540 Baycenter Road
Jacksonville, FL 32256
(904) 739-2277 Voice
(904) 739-2011 FAX

An Employee-Owned Company

FAX TRANSMITTAL

TO: Barb Russell **FROM:** Joan Dickens
FAX# 616-963-4425 **DATE:** 10/27/00

MESSAGE: Results for J2003269

Thank you!

NUMBER OF PAGES 7 **(Including cover sheet)**

Important Note
The documents accompanying this transmission may contain information which is legally privileged and/or confidential. The information is intended only for the use of the individual or entity named above. If you are not the intended recipient, or the person responsible for delivering it to the intended recipient, you are hereby notified that any disclosure, copying, distribution, or use of any of the information contained in this transmission is strictly **PROHIBITED**. If you have received this transmission in error, please immediately notify us by telephone and mail the original transmission to us. Thank you for your cooperation and assistance.

Columbia Analytical Services INC.
An Employee-Owned Company

October 27, 2000

Service Request No. J2003269

Certification Numbers:

Florida DOH:	E82502
Louisiana:	AI 30759
Massachusetts:	M-FL937
New Hampshire:	294297-A
North Carolina:	527
South Carolina:	96021001

Barb Russell
Michigan Paperboard Co.
79 E Fountain St.
Battle Creek, MI 49017

RE: Project No.: 73638
Project Name: Protocol

Dear Barb Russell:

Enclosed are the results of the samples(s) submitted to our laboratory on September 27, 2000. For your reference, these analyses have been assigned our service request number: J2003269.

All analyses were performed according to our laboratory's quality assurance program. All results are intended to be considered in the entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions.

Respectfully submitted,

Columbia Analytical Services, Inc.

Tom Kissinger
Project Manager

TK/jg

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: Protocol / 73638
Sample Matrix: Paperboard

Service Request: J2003269
Date Collected: 9/15/00
Date Received: 9/27/00
Date Extracted: 10/5/00

Semivolatile Organic Compounds
EPA Methods 3550/8270C
Units: mg/Kg (ppm)

		#2 Machine Board Samples	
	Sample Name:	Composite	Method Blank
	Lab Code:	J2003269-001	EX200414-MB
	Date Analyzed:	10/24/00	10/24/00
Analyte	**MRL**		
Benzidine	0.5	U	U
Benzoic Acid	5	U	U
Benzyl alcohol	0.5	U	U
Biphenyl*	0.5	U	U
Bis(2-ethylhexyl) Phthalate	0.5	0.75	U
Butyl Benzyl Phthalate	0.5	U	U
Carbazole	0.5	U	U
4-Chloro-3-methylphenol	1	U	U
4-Chloroaniline	0.5	U	U
2-Chloronaphthalene	0.5	U	U
2-Chlorophenol	0.5	U	U
Di-n-butyl Phthalate	0.5	U	U
Di-n-octyl Phthalate	0.5	U	U
Dibenzofuran	0.5	U	U
1,2-Dichlorobenzene	0.5	U	U
1,3-Dichlorobenzene	0.5	U	U
1,4-Dichlorobenzene	0.5	U	U
3,3'-Dichlorobenzidine	1	U	U
2,4-Dichlorophenol	0.5	U	U
Diethyl Phthalate	0.5	U	U
Dimethyl Phthalate	0.5	U	U
2,4-Dimethylphenol	0.5	U	U
2-Methyl-4,6-dinitrophenol	1	U	U

* Searched for as a tentatively identified compound.
U Not detected at or above the MRL.

Approved By: Jan D. Hassing Date: 10/27/00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: Protocol / 73638
Sample Matrix: Paperboard

Service Request: J2003269
Date Collected: 9/15/00
Date Received: 9/27/00
Date Extracted: 10/5/00

Semivolatile Organic Compounds
EPA Methods 3550/8270C
Units: mg/Kg (ppm)

		#2 Machine Board Samples	
	Sample Name:	Composite	Method Blank
	Lab Code:	J2003269-001	EX200414-MB
	Date Analyzed:	10/24/00	10/24/00
Analyte	**MRL**		
2,4-Dinitrophenol	1	U	U
2,4-Dinitrotoluene	0.5	U	U
2,6-Dinitrotoluene	0.5	U	U
Hexachlorobenzene	0.5	U	U
Hexachlorobutadiene	0.5	U	U
Hexachlorocyclopentadiene	0.5	U	U
Hexachloroethane	0.5	U	U
Isophorone	0.5	U	U
1-Methylnaphthalene*	0.5	U	U
2-Methylnaphthalene	0.5	U	U
2-Methyphenol	0.5	U	U
3- & 4-Methyphenol	0.5	U	U
N-Nitrosodi-n-propylamine	0.5	U	U
N-Nitrosodimethylamine	0.5	U	U
N-Nitrosodiphenylamine	0.5	U	U
2-Nitroaniline	0.5	U	U
3-Nitroaniline	0.5	U	U
4-Nitroaniline	0.5	U	U
Nitrobenzene	0.5	U	U
2-Nitrophenol	0.5	U	U
4-Nitrophenol	1	U	U

* Searched for as a tentatively identified compound.
U Not detected at or above the MRL.

Approved By: Tom D. Thessinger Date: 10/27/00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: Protocol / 73638
Sample Matrix: Paperboard

Service Request: J2003269
Date Collected: 9/15/00
Date Received: 9/27/00
Date Extracted: 10/5/00

Semivolatile Organic Compounds
EPA Methods 3550/8270C
Units: mg/Kg (ppm)

		#2 Machine Board Samples	
	Sample Name:	**Composite**	**Method Blank**
	Lab Code:	J2003269-001	EX200414-MB
	Date Analyzed:	10/24/00	10/24/00
Analyte	**MRL**		
2, 2'-Oxybis(1-chloropropane)	1	U	U
Pentachlorophenol	1	U	U
Phenol	0.5	U	U
Pyridine	0.5	U	U
2,3,4,6-Tetrachlorophenol*	0.5	U	U
1,2,4-Trichlorobenzene	0.5	U	U
2,4,5-Trichlorophenol	0.5	U	U
2,4,6-Trichlorophenol	0.5	U	U
Bis(2-chloroethoxy)methane	0.5	U	U
Bis(2-chloroethyl) Ether	0.5	U	U

* Searched for as a tentatively identified compound.
U Not detected at or above the MRL.

Approved By: Tom D. Harrington Date: 10/27/00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co.	**Service Request:**	J2003269
Project:	Protocol / 73638	**Date Collected:**	9/15/00
Sample Matrix:	Paperboard	**Date Received:**	9/27/00
		Date Extracted:	10/5/00

Polynuclear Aromatic Hydrocarbons (PAHs)
EPA Methods 3550/8270C
Units: mg/Kg (ppm)

		#2 Machine Board Samples	
	Sample Name:	**Composite**	**Method Blank**
	Lab Code:	J2003269-001	EX200414-MB
	Date Analyzed:	10/13/00	10/13/00
Analyte	**MRL**		
Acenaphthene	0.01	U	U
Acenaphthylene	0.01	U	U
Anthracene	0.01	U	U
Benz(a)anthracene	0.01	U	U
Benzo(a)pyrene	0.01	U	U
Benzo(b)fluoranthene	0.01	U	U
Benzo(ghi)perylene	0.01	U	U
Benzo(k)fluoranthene	0.01	U	U
Chrysene	0.01	U	U
Dibenz(a,h)anthracene	0.01	U	U
Fluoranthene	0.01	U	U
Fluorene	0.01	U	U
Indeno(1,2,3-cd)pyrene	0.01	U	U
Naphthalene	0.01	U	U
Phenanthrene	0.01	U	U
Pyrene	0.01	U	U

U Not detected at or above the MRL.

Approved By: Jan D. Kissinger Date: 10/27/00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: Protocol / 73638
Sample Matrix: Paperboard

Service Request: J2003269
Date Collected: 9/15/00
Date Received: 9/27/00
Date Extracted: 9/28/00

Total Metals
Units: mg/Kg(ppm)
As Received Basis

		Sample Name:	**#2 Machine Board Samples**
		Lab Code:	J2003269-001
		Date Analyzed:	10/18/00
Analyte	**EPA Method**	**MRL**	
Lead	6020	2	U

U Not detected at or above the MRL.

Approved By: Tom D. Hissinger Date: 10/27/00

Columbia Analytical Services INC
An Employee Owned Company

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST

8540 Baycenter Rd. • Jacksonville, FL 32256 • (904) 739-2277 • 800-695-7222 • FAX (904) 739-2011

DATE 09/26/2000 PAGE 1 OF 1

PROJECT NAME Protocol
PROJECT # 73638
COMPANY/ADDRESS Michigan Paperboard Company
79 East Fountain Street
Battle Creek, Michigan 49017 PHONE 616 963-4004
REPORT TO: Barb Russell
SAMPLER'S SIGNATURE Jim Hoskins

ANALYSIS REQUEST

RPTA – Focused Sampling ☒
(Short List)

RPTA – Baseline Sampling ☐
(Comprehensive)

SAMPLE I.D.	DATE	TIME	REMARKS
#2 Machine Board Samples	9/11 - 9/15		
composite 9/11, 9/12, 9/13, 9/14, 9/15			

RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

SPECIAL INSTRUCTIONS/COMMENTS:

INVOICE INFORMATION:
P.O.# 73638
Bill To Michigan Paperboard
79 East Fountain Street
Battle Creek Michigan
49017

SAMPLE RECEIPT:
Shipping VIA:
Shipping to:
Condition:
Lab No:

DISTRIBUTION: WHITE - return to originator; YELLOW - lab; PINK - retained by originator

Columbia Analytical Services INC.
An Employee-Owned Company

July 27, 2000

Service Request No. J2002156

Certification Numbers:

Florida DEP:	930298G
Florida HRS:	E82502; 82483
Massachusetts:	M-FL937
New Hampshire:	294297-A; 294297-B
North Carolina:	527
South Carolina:	96021001

Barb Russell
Michigan Paperboard Co.
79 E Fountain St.
Battle Creek, MI 49017

RE: Project No.: 72705
Project Name: Protocol-Focused Sampling

Dear Barb Russell:

Enclosed are the results of the samples(s) submitted to our laboratory on June 28, 2000. For your reference, these analyses have been assigned our service request number: J2002156.

All analyses were performed according to our laboratory's quality assurance program. All results are intended to be considered in the entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions.

Respectfully submitted,

Columbia Analytical Services, Inc.

Tom Kissinger
Project Manager

TK/jg

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: Protocol-Focused Sampling / 72705
Sample Matrix: Paperboard

Service Request: J2002156
Date Collected: 6/23/00
Date Received: 6/28/00
Date Extracted: 6/30/00

Total Metals
Units: mg/Kg(ppm)
As Received Basis

		Sample Name:	**Composite Samples #1**
		Lab Code:	J2002156-001
		Date Analyzed:	7/18/00
Analyte	**EPA Method**	**MRL**	
Lead	6020	2	3.0

U Not detected at or above the MRL.

Approved By: Tom D. Kissing Date: 7/27/00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: Protocol-Focused Sampling / 72705
Sample Matrix: Paperboard

Service Request: J2002156
Date Collected: 6/23/00
Date Received: 6/28/00
Date Extracted: 7/17/00

Polynuclear Aromatic Hydrocarbons (PAHs)
EPA Methods 3550/8270C
Units: mg/Kg (ppm)

		Composite Samples #1	
	Sample Name:	**Machine**	**Method Blank**
	Lab Code:	J2002156-001	J200717-MB
	Date Analyzed:	7/24/00	7/24/00
Analyte	**MRL**		
Acenaphthene	0.01	U	U
Acenaphthylene	0.01	U	U
Anthracene	0.01	U	U
Benz(a)anthracene	0.01	U	U
Benzo(a)pyrene	0.01	U	U
Benzo(b)fluoranthene	0.01	U	U
Benzo(ghi)perylene	0.01	U	U
Benzo(k)fluoranthene	0.01	U	U
Chrysene	0.01	U	U
Dibenz(a,h)anthracene	0.01	U	U
Fluoranthene	0.01	U	U
Fluorene	0.01	U	U
Indeno(1,2,3-cd)pyrene	0.01	U	U
Naphthalene	0.01	0.01	U
Phenanthrene	0.01	0.01	U
Pyrene	0.01	U	U

U Not detected at or above the MRL.

Approved By: Tom D. Hassinger Date: 7/27/00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: Protocol-Focused Sampling / 72705
Sample Matrix: Paperboard

Service Request: J2002156
Date Collected: 6/23/00
Date Received: 6/28/00
Date Extracted: 7/17/00

Phthalate Esters
EPA Methods 3550/8270C
Units: mg/Kg (ppm)

		Composite Samples #1	
	Sample Name:	**Machine**	**Method Blank**
	Lab Code:	J2002156-001	J200717-MB
	Date Analyzed:	7/25/00	7/25/00
Analyte	**MRL**		
Bis(2-ethylhexyl) Phthalate	0.5	1.9	U
Butyl Benzyl Phthalate	0.5	0.6	U
Di-n-butyl Phthalate	0.5	1.7	U
Di-n-octyl Phthalate	0.5	U	U
Diethyl Phthalate	0.5	U	U
Dimethyl Phthalate	0.5	U	U

U Not detected at or above the MRL.

Approved By: Tom D. Kissinger Date: 7/27/00

Columbia Analytical Services INC.
An Employee-Owned Company

July 27, 2000

Service Request No. J2002156

Certification Numbers:

Florida DEP:	930298G
Florida HRS:	E82502; 82483
Massachusetts:	M-FL937
New Hampshire:	294297-A; 294297-B
North Carolina:	527
South Carolina:	96021001

Barb Russell
Michigan Paperboard Co.
79 E Fountain St.
Battle Creek, MI 49017

RE: Project No.: 72705
Project Name: Protocol-Focused Sampling

Dear Barb Russell:

Enclosed are the results of the samples(s) submitted to our laboratory on June 28, 2000. For your reference, these analyses have been assigned our service request number: J2002156.

All analyses were performed according to our laboratory's quality assurance program. All results are intended to be considered in the entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions.

Respectfully submitted,

Columbia Analytical Services, Inc.

Tom Kissinger
Project Manager

TK/jg

8540 Baycenter Rd. ▪ Jacksonville, FL 32256 ▪ (904) 739-2277 ▪ Fax (904) 739-2011

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co.	**Service Request:**	J2002156
Project:	Protocol-Focused Sampling / 72705	**Date Collected:**	6/23/00
Sample Matrix:	Paperboard	**Date Received:**	6/28/00
		Date Extracted:	6/30/00

Total Metals
Units: mg/Kg(ppm)
As Received Basis

			Composite
		Sample Name:	**Samples #1**
		Lab Code:	J2002156-001
		Date Analyzed:	7/18/00
Analyte	**EPA Method**	**MRL**	
Lead	6020	2	3.0

U Not detected at or above the MRL.

Approved By: Tom D. Kissing Date: 7/27/00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co.	**Service Request:**	J2002156
Project:	Protocol-Focused Sampling / 72705	**Date Collected:**	6/23/00
Sample Matrix:	Paperboard	**Date Received:**	6/28/00
		Date Extracted:	7/17/00

Polynuclear Aromatic Hydrocarbons (PAHs)
EPA Methods 3550/8270C
Units: mg/Kg (ppm)

		Composite Samples #1	
	Sample Name:	**Machine**	**Method Blank**
	Lab Code:	J2002156-001	J200717-MB
	Date Analyzed:	7/24/00	7/24/00
Analyte	**MRL**		
Acenaphthene	0.01	U	U
Acenaphthylene	0.01	U	U
Anthracene	0.01	U	U
Benz(a)anthracene	0.01	U	U
Benzo(a)pyrene	0.01	U	U
Benzo(b)fluoranthene	0.01	U	U
Benzo(ghi)perylene	0.01	U	U
Benzo(k)fluoranthene	0.01	U	U
Chrysene	0.01	U	U
Dibenz(a,h)anthracene	0.01	U	U
Fluoranthene	0.01	U	U
Fluorene	0.01	U	U
Indeno(1,2,3-cd)pyrene	0.01	U	U
Naphthalene	0.01	0.01	U
Phenanthrene	0.01	0.01	U
Pyrene	0.01	U	U

U Not detected at or above the MRL.

Approved By: Tom D. Hassinger Date: 7/27/00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co.	**Service Request:**	J2002156
Project:	Protocol-Focused Sampling / 72705	**Date Collected:**	6/23/00
Sample Matrix:	Paperboard	**Date Received:**	6/28/00
		Date Extracted:	7/17/00

Phthalate Esters
EPA Methods 3550/8270C
Units: mg/Kg (ppm)

		Composite Samples #1	
	Sample Name:	**Machine**	**Method Blank**
	Lab Code:	J2002156-001	J200717-MB
	Date Analyzed:	7/25/00	7/25/00
Analyte	**MRL**		
Bis(2-ethylhexyl) Phthalate	0.5	1.9	U
Butyl Benzyl Phthalate	0.5	0.6	U
Di-n-butyl Phthalate	0.5	1.7	U
Di-n-octyl Phthalate	0.5	U	U
Diethyl Phthalate	0.5	U	U
Dimethyl Phthalate	0.5	U	U

U Not detected at or above the MRL.

Approved By: Tom D. Cissinger Date: 7/27/00

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

Client Michigan Paperboard Co Work order J2002156
Project Protocol-Focused Sampling / 72705
Cooler received on 6/28/00 and opened on 6/28/00 by RG

		Yes	No	N/A
1	Were custody seals on outside of cooler?	☒	☐	☐
	If yes, how many and where?	1 on Outside		☐
	Were signature and date correct?	☒	☐	☐
2	Were custody papers properly filled out (ink, signed, etc)?	☒	☐	☐
3	Did all bottles arrive in good condition (unbroken, etc)?	☒	☐	☐
4	Were all bottle labels correct (analysis, preservation, etc)?	☒	☐	☐
5	Did all bottle labels and tags agree with custody papers?	☒	☐	☐
6	Were correct bottles used for test indicated?	☒	☐	☐
7	Were VOA vials checked for absence of air bubbles, and noted?	☐	☐	☒
8	Temperature of cooler upon receipt	_____ Degrees C		

Explain any discrepancies _____

		Yes	No
pH	Reagent		
12	NaOH		
2	HNO_3		
2	H_2SO_4		

Yes = all samples OK
No = Samples were preserved at lab as listed

Comments

Sample I D	Reagent	Vol

Columbia Analytical Services INC.
An Employee-Owned Company

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST

8540 Baycenter Rd. • Jacksonville, FL 32256 • (904) 739-2277 • 800-695-7222 • FAX (904) 739-2011

DATE June 28, 2000 PAGE 1 OF 1

PROJECT NAME Protocol - Focused Sampling
PROJECT # 72705
COMPANY/ADDRESS Michigan Paperboard Company
79 East Fountain Street
Battle Creek, Michigan 49017 PHONE 616-963-4004
REPORT TO: Barbara Russell
SAMPLER'S SIGNATURE [signature] / [signature]

ANALYSIS REQUEST

RPTA – Focused Sampling [X]
(Short List)

RPTA – Baseline Sampling [ ]
(Comprehensive)

SAMPLE I.D.	DATE	TIME	REMARKS
Composite samples #1 Machine	6/19 - 6/23		

RELINQUISHED BY:
Signature [signature]
Printed Name TRACY MILLER
Firm Michigan Paperboard
Date/Time

RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

SPECIAL INSTRUCTIONS/COMMENTS:

INVOICE INFORMATION:
P.O.# 72705
Bill To Michigan Paperboard
79 East Fountain St.
Battle Creek, Michigan
49017

SAMPLE RECEIPT:
Shipping VIA:
Shipping to:
Condition:
Lab No:

DISTRIBUTION: WHITE - return to originator; YELLOW - lab; PINK - retained by originator

ACKNOWLEDGMENT OF RECEIPT OF SAMPLES

TO: Barb Russell

FROM: Tom Kissinger/Project Manager
Columbia Analytical Services, Inc.

This is to inform you that the samples received on 3/22/00 1100
for your project Protocol/71688
have been assigned CAS service request number J2000925

A copy of our CAS service request or intercompany service request is attached. If you have any questions regarding the status of this work, please call me at (904) 739-2277.

Thank you for your business.

Number of pages (including cover sheet): 2

Columbia Analytical Services, Inc.
8540 Baycenter Road
Jacksonville, FL 32256
(904) 739-2277
(904) 739-2011 fax

Project Name:	Protocol	**Service Request**	**J2000925**		
Project Number	71688	Reviewed by:	THT	Date Received:	3/22/00 1100
Client Name:	Michigan Paperboard Co.	Logged in by:	THT	Date Required:	4/12/00
Client Number:	7270089	Rec'd by:	THT	Copies of SR to: VOC	
Report To:	Barb Russell	Project Manager:	Tom Kissinger	SOC	1
Address:	79 E Fountain St.	P.O. #:	71688	Metals	1
	Battle Creek, MI 49017			Gen Chem	
Phone:	616-963-4004			Micro	
Fax Number:	616-963-4425				
Special Instructions:		**WATCH FOR SHORT HOLDING TIMES** !!!!!!!!!!!!!!!!!			

Sample Description:
Soil:
Water:
Other: X

Bottles Received:
1-L Amber
500 Amber
16 oz glass
8 oz glass
VOA soil
250 EDB
White plastic
Red plastic
Yellow plastic
Green plastic
VOA vial sets
Other 1

Chain of Custody:
Yes: X
No:

Samples Stored:
Walk In: D3
Hall:
VOA:

Reporting:
Tier: I
EDD:
DOD:

1	PAHs/Phthalates	18		
2	Pb	19		
3		20		
4		21		
5		22		
6		23		
7		24		
8		25		
9		26		
10		27		
11		28		
12		29	Lab J:	I.D.
13		30	35	
14		31	36	
15		32	37	
16		33	38	
17		34	39	

Lab Codes	Sample ID	Test to be performed	Sample Date	Matrix
J2000925-01	#2 Machine Board Composite Samples	1,2	3/17/00	Paperboard

Composite Sheets Before Analyzing

Columbia Analytical Services INC.
An Employee-Owned Company

April 18, 2000

Service Request No. J2000925

Certification Numbers:

Florida DEP:	930298G
Florida HRS:	E82502; 82483
Massachusetts:	M-FL937
New Hampshire:	294297-A; 294297-B
North Carolina:	527
South Carolina:	96021001

Barb Russell
Michigan Paperboard Co.
79 E Fountain St.
Battle Creek, MI 49017

RE: Project No.: 71688
Project Name: Protocol

Dear Barb Russell:

Enclosed are the results of the samples(s) submitted to our laboratory on March 22, 2000. For your reference, these analyses have been assigned our service request number: J2000925.

All analyses were performed according to our laboratory's quality assurance program. All results are intended to be considered in the entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions.

Respectfully submitted,

Columbia Analytical Services, Inc.

Tom Kissinger
Project Manager

TK/jg

8540 Baycenter Rd. ▪ Jacksonville, FL 32256 ▪ (904) 739-2277 ▪ Fax (904) 739-2011

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co.	**Service Request:**	J2000925
Project:	Protocol / 71688	**Date Collected:**	3/17/00
Sample Matrix:	Paperboard	**Date Received:**	3/22/00
		Date Extracted:	4/6/00

Polynuclear Aromatic Hydrocarbons (PAHs)
EPA Methods 3550/8270C
Units: mg/Kg (ppm)

		#2 Machine Board Composite	
	Sample Name:	**Samples**	**Method Blank**
	Lab Code:	J2000925-01	J200406-MB
	Date Analyzed:	4/12/00	4/12/00
Analyte	**MRL**		
Acenaphthene	0.01	U	U
Acenaphthylene	0.01	U	U
Anthracene	0.01	U	U
Benz(a)anthracene	0.01	U	U
Benzo(a)pyrene	0.01	U	U
Benzo(b)fluoranthene	0.01	U	U
Benzo(ghi)perylene	0.01	U	U
Benzo(k)fluoranthene	0.01	U	U
Chrysene	0.01	U	U
Dibenz(a,h)anthracene	0.01	U	U
Fluoranthene	0.01	U	U
Fluorene	0.01	U	U
Indeno(1,2,3-cd)pyrene	0.01	U	U
Naphthalene	0.01	U	U
Phenanthrene	0.01	0.01	U
Pyrene	0.01	0.02	U

U Not detected at or above the MRL.

Approved By: Tom D. Fissinger Date: 4/18/00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: Protocol / 71688
Sample Matrix: Paperboard

Service Request: J2000925
Date Collected: 3/17/00
Date Received: 3/22/00
Date Extracted: 4/6/00

Phthalate Esters
EPA Methods 3550/8270C
Units: mg/Kg (ppm)

		#2 Machine Board Composite	
	Sample Name:	**Samples**	**Method Blank**
	Lab Code:	J2000925-01	J200406-MB
	Date Analyzed:	4/12/00	4/12/00
Analyte	**MRL**		
Bis(2-ethylhexyl) Phthalate	0.5	0.9	U
Butyl Benzyl Phthalate	0.5	U	U
Di-n-butyl Phthalate	0.5	1.0	U
Di-n-octyl Phthalate	0.5	U	U
Diethyl Phthalate	0.5	U	U
Dimethyl Phthalate	0.5	U	U

U Not detected at or above the MRL.

Approved By: Tom D. Illsinger Date: 4/18/00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co.	**Service Request:**	J2000925
Project:	Protocol / 71688	**Date Collected:**	3/17/00
Sample Matrix:	Paperboard	**Date Received:**	3/22/00
		Date Extracted:	3/29/00

Total Metals
Units: mg/Kg(ppm)
As Received Basis

Sample Name:		**#2 Machine Board Composite**
Lab Code:		J2000925-01
Date Analyzed:		3/30/00

Analyte	**EPA Method**	**MRL**	
Lead	6020	2	U

U Not detected at or above the MRL.

Approved By: Tom D. Thessinger Date: 4/18/00

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

Client: Michigan Paperboard Co. Work order: J2000925

Project: Protocol / 71688

Cooler received on 3/22/00 1100 and opened on 3/22/00 1100 by THT

		Yes	No	N/A
1	Were custody seals on outside of cooler?	☐	☒	☐
	If yes, how many and where?			☒
	Were signature and date correct?	☐	☐	☒
2	Were custody papers properly filled out (ink, signed, etc....)?	☒	☐	☐
3	Did all bottles arrive in good condition (unbroken, etc....)?	☒	☐	☐
4	Were all bottle labels correct (analysis, preservation, etc....)?	☒	☐	☐
5	Did all bottle labels and tags agree with custody papers?	☒	☐	☐
6	Were correct bottles used for test indicated?	☒	☐	☐
7	Were VOA vials checked for absence of air bubbles, and noted?	☐	☐	☒
8	Temperature of cooler upon receipt	_____ Degrees C		

Explain any discrepancies: _____

		Yes	No
pH	Reagent		
12	NaOH		
2	HNO_3		
2	H_2SO_4		

Yes = all samples OK
No = Samples were preserved at lab as listed

Comments:

Sample I.D.	Reagent	Vol.

Columbia Analytical Services INC
An Employee Owned Company

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST

8540 Baycenter Rd • Jacksonville, FL 32256 • (904) 739-2277 • 800-695-7222 • FAX (904) 739-2011

DATE 03/21/2000 PAGE 1 OF 1

PROJECT NAME PROTOCOL
PROJECT # 71688
COMPANY/ADDRESS MICHIGAN PAPERBOARD COMPANY
79 EAST FOUNTAIN STREET
BATTLE CREEK, MICHIGAN 49017 PHONE 616-963-4004
REPORT TO BARB RUSSELL
SAMPLER'S SIGNATURE Jim Hoking

ANALYSIS REQUEST

RPTA – Focused Sampling ☒ (Short List)

RPTA – Baseline Sampling ☐ (Comprehensive)

SAMPLE I.D.	DATE	TIME	REMARKS
#2 MACHINE BOARD SAMPLES	3/13-3/17		
3/13 - 3/17			

RELINQUISHED BY:
Signature
TRACY MILLER
Printed Name
Michigan Paperboard
Firm
3-21-00 2:22 pm
Date/Time

RECEIVED BY:
Signature
MICAH HARDEMAN
Printed Name
W.P.S.
Firm
3-21-00 15:45
Date/Time

SPECIAL INSTRUCTIONS/COMMENTS:

925

INVOICE INFORMATION:
P.O # 71688
Bill To MICHIGAN PAPERBOARD
79 EAST FOUNTAIN ST.
BATTLE CREEK, MICHIGAN
49017

SAMPLE RECEIPT:
Shipping VIA: RG
Shipping to: RG
Condition:
Lab No:

DISTRIBUTION: WHITE - return to originator; YELLOW - lab; PINK - retained by originator

PURCHASE ORDER

MICHIGAN PAPERBOARD COMPANY
79 East Fountain Street • Battle Creek, Michigan 49017

THIS ORDER NO. MUST APPEAR ON ALL LABELS, PACKING LISTS AND INVOICES.

71688
PAGE 1

REQUISITION NO.

DATE 3/14/00

SEND ALL INVOICES IN QUADRUPLICATE TO:
ACCOUNTING DEPARTMENT
MICHIGAN PAPERBOARD COMPANY
79 EAST FOUNTAIN STREET
BATTLE CREEK, MI 49017-4198

SHIP TO US AT:
CAPITAL AVENUE - DOCK C-7

ATTN: JIM HOSKING

TO:
COLUMBIA ANALYLITICAL SERVICE
8540 BAY CENTER RD.
JACKSONVILLE, FL 32256

)826-001

TE REQUIRED AT PLANT	SHIP VIA	F.O.B.	TERMS
3/18/00	VENDOR		NET 45

EM IO.	QUANTITY	OUR CODE NUMBER OR ACCOUNT	DESCRIPTION	UNIT PRICE
			CONFIRMING...DO NOT DUPLICATE 099-585-5435	
1	1 EA	99525628	COMPOSITE SAMPLE RPTA - PROTOCOL PERIODIC FOCUSED ANALYSIS	$448.00
			RECEIVING HOURS ARE 7:30 AM TO 2:30 PM SALES AND USE TAX STATUS FOR USE IN INDUSTRIAL PROCESSING. PLEASE SEND M.S.D.S. FOR FIRST-TIME ORDERS.	

VENDOR OR CONTRACTOR REPRESENTS THAT IT IS IN COMPLIANCE WITH THE REQUIREMENTS OF EXECUTIVE ORDER 11246, AS AMENDED, RELATING TO EQUAL EMPLOYMENT OPPORTUNITY AND NON-SEGREGATED FACILITIES; EXECUTIVE ORDER 11625 RELATING TO MINORITY BUSINESS ENTERPRISE; EXECUTIVE ORDER 11701 (CFR 60-250) RELATING TO THE EMPLOYMENT OF VETERANS; AND THE REHABILITATION ACT OF 1973 (41 CFR 60-741) RELATING TO THE EMPLOYMENT OF HANDICAPPED PERSONS.

IMPORTANT
This order must not be filled at higher prices without our authority. Acknowledgement of this order must be made immediately and a copy of the order may be used in making such acknowledgement.
SEE ADDITIONAL TERMS AND CONDITIONS ON BACK.

By Michael P. Hughes
PURCHASING MANAGER
ACTING AS AGENT FOR
MICHIGAN CARTON & PAPERBOARD COMPANY

MPH

Columbia Analytical Services INC.
An Employee-Owned Company

January 13, 2000

Service Request No. J9903972

Certification Numbers:

Florida DEP:	930298G
Florida HRS:	E82502; 82483
Massachusetts:	M-FL937
New Hampshire:	294297-A; 294297-B
North Carolina:	527
South Carolina:	96021001
A2LA	0490-02

Barb Russell
Michigan Paperboard Co.
79 E Fountain St.
Battle Creek, MI 49017

RE: Project No.: 70688
Project Name: Protocol Periodic Focused Analysis

Dear Barb Russell:

Enclosed are the results of the samples(s) submitted to our laboratory on December 21, 1999. For your reference, these analyses have been assigned our service request number: J9903972.

All analyses were performed according to our laboratory's quality assurance program. All results are intended to be considered in the entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions.

Respectfully submitted,

Columbia Analytical Services, Inc.

Tom Kissinger
Project Chemist

TK/jg

8540 Baycenter Rd. ▪ Jacksonville, FL 32256 ▪ (904) 739-2277 ▪ Fax (904) 739-2011

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co.	**Service Request:**	J9903972
Project:	Protocol Periodic Focused Analysis / 70688	**Date Collected:**	12/12/99
Sample Matrix:	Paperboard	**Date Received:**	12/21/99
		Date Extracted:	1/7/00

Polynuclear Aromatic Hydrocarbons (PAHs)
EPA Methods 3550/8270C
Units: mg/Kg (ppm)

	Sample Name:	**Paper Composite**	**Method Blank**
	Lab Code:	J9903972-01	J200107-MB
	Date Analyzed:	1/13/00	1/13/00
Analyte	**MRL**		
Acenaphthene	0.01	U	U
Acenaphthylene	0.01	U	U
Anthracene	0.01	U	U
Benz(a)anthracene	0.01	U	U
Benzo(a)pyrene	0.01	U	U
Benzo(b)fluoranthene	0.01	U	U
Benzo(ghi)perylene	0.01	U	U
Benzo(k)fluoranthene	0.01	U	U
Chrysene	0.01	U	U
Dibenz(a,h)anthracene	0.01	U	U
Fluoranthene	0.01	0.03	U
Fluorene	0.01	0.02	U
Indeno(1,2,3-cd)pyrene	0.01	U	U
Naphthalene	0.01	U	U
Phenanthrene	0.01	0.05	U
Pyrene	0.01	0.07	U

U Not detected at or above the MRL.

Approved By: Tom D. Hessinger Date: 1/13/00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co.	**Service Request:**	J9903972
Project:	Protocol Periodic Focused Analysis / 70688	**Date Collected:**	12/12/99
Sample Matrix:	Paperboard	**Date Received:**	12/21/99
		Date Extracted:	1/7/00

Phthalate Esters
EPA Methods 3550/8270C
Units: mg/Kg (ppm)

	Sample Name:	**Paper Composite**	**Method Blank**
	Lab Code:	J9903972-01	J200107-MB
	Date Analyzed:	1/11/00	1/11/00
Analyte	**MRL**		
Bis(2-ethylhexyl) Phthalate	0.5	4.4	U
Butyl Benzyl Phthalate	0.5	1.4	U
Di-n-butyl Phthalate	0.5	2.2	U
Di-n-octyl Phthalate	0.5	U	U
Diethyl Phthalate	0.5	U	U
Dimethyl Phthalate	0.5	U	U

U Not detected at or above the MRL.

Approved By: Tam D. Higgins Date: 1/13/00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co.	**Service Request:**	J9903972
Project:	Protocol Periodic Focused Analysis / 70688	**Date Collected:**	12/12/99
Sample Matrix:	Paperboard	**Date Received:**	12/21/99
		Date Extracted:	12/27/99

Total Metals
Units: mg/Kg(ppm)
As Received Basis

			Sample Name:	**Paper Composite**	**Method Blank**
			Lab Code:	J9903972-01	J991227-MB
			Date Analyzed:	1/11/00	1/11/00
Analyte	**EPA Method**	**MRL**			
Lead	7421	0.5		0.92	U

U Not detected at or above the MRL.

Approved By: Tom D. Kissinger Date: 1/13/00

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

Client: Michigan Paperboard Co. Work order: J9903972
Project: Protocol Periodic Focused Analysis / 70688
Cooler received on 12/21/99 1200and opened on 12/21/99 120 by THT

		Yes	No	N/A
1	Were custody seals on outside of cooler?	☐	☒	☐
	If yes, how many and where?			☒
	Were signature and date correct?	☐	☐	☒
2	Were custody papers properly filled out (ink, signed, etc....)?	☒	☐	☐
3	Did all bottles arrive in good condition (unbroken, etc....)?	☒	☐	☐
4	Were all bottle labels correct (analysis, preservation, etc....)?	☒	☐	☐
5	Did all bottle labels and tags agree with custody papers?	☒	☐	☐
6	Were correct bottles used for test indicated?	☒	☐	☐
7	Were VOA vials checked for absence of air bubbles, and noted?	☐	☐	☒
8	Temperature of cooler upon receipt	_____ Degrees C		

Explain any discrepancies:

		Yes	No
pH	Reagent		
12	NaOH		
2	HNO_3		
2	H_2SO_4		

Yes = all samples OK
No = Samples were preserved at lab as listed

Comments:

Sample I.D.	Reagent	Vol.

Columbia Analytical Services INC
An Employee Owned Company

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST

8540 Baycenter Rd. • Jacksonville, FL 32256 • (904) 739-2277 • 800-695-7222 • FAX (904) 739-2011

DATE 12/17/99 PAGE 1 OF 1

PROJECT NAME Protocol Periodic Focused Analysis
PROJECT # 70688
COMPANY/ADDRESS Michigan Paperboard Company
79 East Fountain Street
Battle Creek, Michigan 49017 PHONE 616-963-4004
REPORT TO: Barbara Russell
SAMPLER'S SIGNATURE Jim Hosking

ANALYSIS REQUEST

RPTA – Focused Sampling ☑
(Short List)

RPTA – Baseline Sampling ☐
(Comprehensive)

SAMPLE I.D.	DATE	TIME	REMARKS
Composite samples	12/13-12/17		
#1 machine			

RELINQUISHED BY:
Signature Karen S. Sawyer
Printed Name KAREN S. SAWYER
Firm MPC
Date/Time 12/20/99 4:00p

RECEIVED BY:
Signature M Clark
Printed Name Matt Clark
Firm UPS
Date/Time 12/20/99 16:00

SPECIAL INSTRUCTIONS/COMMENTS:

INVOICE INFORMATION:
P.O.# 70688
Bill To Michigan Paperboard
79 East Fountain St
Battle Creek, MI
49017

SAMPLE RECEIPT:
Shipping VIA:
Shipping to:
Condition:
Lab No:

J9903972

DISTRIBUTION: WHITE - return to originator; YELLOW - lab; PINK - retained by originator

Columbia Analytical Services INC.
An Employee-Owned Company

January 13, 2000

Service Request No. J9903972

Certification Numbers:

Florida DEP:	930298G
Florida HRS:	E82502; 82483
Massachusetts:	M-FL937
New Hampshire:	294297-A; 294297-B
North Carolina:	527
South Carolina:	96021001
A2LA	0490-02

Barb Russell
Michigan Paperboard Co.
79 E Fountain St.
Battle Creek, MI 49017

RE: Project No.: 70688
Project Name: Protocol Periodic Focused Analysis

Dear Barb Russell:

Enclosed are the results of the samples(s) submitted to our laboratory on December 21, 1999. For your reference, these analyses have been assigned our service request number: J9903972.

All analyses were performed according to our laboratory's quality assurance program. All results are intended to be considered in the entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions.

Respectfully submitted,

Columbia Analytical Services, Inc.

Tom Kissinger
Project Chemist

TK/jg

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: Protocol Periodic Focused Analysis / 70688
Sample Matrix: Paperboard

Service Request: J9903972
Date Collected: 12/12/99
Date Received: 12/21/99
Date Extracted: 1/7/00

Polynuclear Aromatic Hydrocarbons (PAHs)
EPA Methods 3550/8270C
Units: mg/Kg (ppm)

Sample Name:		**Paper Composite**	**Method Blank**
Lab Code:		J9903972-01	J200107-MB
Date Analyzed:		1/13/00	1/13/00
Analyte	**MRL**		
Acenaphthene	0.01	U	U
Acenaphthylene	0.01	U	U
Anthracene	0.01	U	U
Benz(a)anthracene	0.01	U	U
Benzo(a)pyrene	0.01	U	U
Benzo(b)fluoranthene	0.01	U	U
Benzo(ghi)perylene	0.01	U	U
Benzo(k)fluoranthene	0.01	U	U
Chrysene	0.01	U	U
Dibenz(a,h)anthracene	0.01	U	U
Fluoranthene	0.01	0.03	U
Fluorene	0.01	0.02	U
Indeno(1,2,3-cd)pyrene	0.01	U	U
Naphthalene	0.01	U	U
Phenanthrene	0.01	0.05	U
Pyrene	0.01	0.07	U

U Not detected at or above the MRL.

Approved By: Tom D. Hasenmyer Date: 1/13/00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: Protocol Periodic Focused Analysis / 70688
Sample Matrix: Paperboard

Service Request: J9903972
Date Collected: 12/12/99
Date Received: 12/21/99
Date Extracted: 1/7/00

Phthalate Esters
EPA Methods 3550/8270C
Units: mg/Kg (ppm)

	Sample Name:	**Paper Composite**	**Method Blank**
	Lab Code:	J9903972-01	J200107-MB
	Date Analyzed:	1/11/00	1/11/00
Analyte	**MRL**		
Bis(2-ethylhexyl) Phthalate	0.5	4.4	U
Butyl Benzyl Phthalate	0.5	1.4	U
Di-n-butyl Phthalate	0.5	2.2	U
Di-n-octyl Phthalate	0.5	U	U
Diethyl Phthalate	0.5	U	U
Dimethyl Phthalate	0.5	U	U

U Not detected at or above the MRL.

Approved By: Tam D. Higgins Date: 1/13/00

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: Protocol Periodic Focused Analysis / 70688
Sample Matrix: Paperboard

Service Request: J9903972
Date Collected: 12/12/99
Date Received: 12/21/99
Date Extracted: 12/27/99

Total Metals
Units: mg/Kg(ppm)
As Received Basis

		Sample Name:	**Paper Composite**	**Method Blank**
		Lab Code:	J9903972-01	J991227-MB
		Date Analyzed:	1/11/00	1/11/00
Analyte	**EPA Method**	**MRL**		
Lead	7421	0.5	0.92	U

U Not detected at or above the MRL.

Approved By: Tana D. Kissinger Date: 1/13/00

Columbia Analytical Services INC.
An Employee-Owned Company

October 28, 1999

Service Request No. J9902968

Certification Numbers:

Florida DEP:	930298G
Florida HRS:	E82502; 82483
Massachusetts:	M-FL937
New Hampshire:	294297-A; 294297-B
North Carolina:	527
South Carolina:	96021001
A2LA	0490-02

Jim Hosking
Michigan Paperboard Co.
79 E Fountain St.
Battle Creek, MI 49017

RE: Project No.: --
Project Name: RPTA-Protocol Periodic Focused

Dear Jim Hosking:

Enclosed are the results of the samples(s) submitted to our laboratory on September 29, 1999. For your reference, these analyses have been assigned our service request number: J9902968.

All analyses were performed according to our laboratory's quality assurance program. All results are intended to be considered in the entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions.

Respectfully submitted,

Columbia Analytical Services, Inc.

Tom Kissinger
Project Chemist

TK/jg

8540 Baycenter Rd. ▪ Jacksonville, FL 32256 ▪ (904) 739-2277 ▪ Fax (904) 739-2011

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co.	**Service Request:**	J9902968
Project:	RPTA-Protocol Periodic Focused	**Date Collected:**	9/28/99
Sample Matrix:	Paperboard	**Date Received:**	9/29/99
		Date Extracted:	10/11/99

Polynuclear Aromatic Hydrocarbons (PAHs)
EPA Methods 3550/8270C
Units: mg/Kg (ppm)

Sample Name:	**Paper Composite**	**Method Blank**
Lab Code:	J9902968-01	J991011-MB
Date Analyzed:	10/13/99	10/13/99

Analyte	**MRL**		
Acenaphthene	0.01	U	U
Acenaphthylene	0.01	U	U
Anthracene	0.01	U	U
Benz(a)anthracene	0.01	U	U
Benzo(a)pyrene	0.01	U	U
Benzo(b)fluoranthene	0.01	U	U
Benzo(ghi)perylene	0.01	U	U
Benzo(k)fluoranthene	0.01	U	U
Chrysene	0.01	U	U
Dibenz(a,h)anthracene	0.01	U	U
Fluoranthene	0.01	0.05	U
Fluorene	0.01	U	U
Indeno(1,2,3-cd)pyrene	0.01	U	U
Naphthalene	0.01	0.02	U
Phenanthrene	0.01	0.03	U
Pyrene	0.01	0.04	U

U Not detected at or above the MRL.

Approved By: Tam D. Kissing Date: 10/28/99

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co.	**Service Request:**	J9902968
Project:	RPTA-Protocol Periodic Focused	**Date Collected:**	9/28/99
Sample Matrix:	Paperboard	**Date Received:**	9/29/99
		Date Extracted:	10/11/99

Phthalate Esters
EPA Methods 3550/8270C
Units: mg/Kg (ppm)

		Sample Name:	**Paper Composite**	**Method Blank**
		Lab Code:	J9902968-01	J991011-MB
		Date Analyzed:	10/13/99	10/13/99
Analyte	**MRL**			
Bis(2-ethylhexyl) Phthalate	0.5		2.4	U
Butyl Benzyl Phthalate	0.5		0.8	U
Di-n-butyl Phthalate	0.5		2.0	U
Di-n-octyl Phthalate	0.5		U	U
Diethyl Phthalate	0.5		U	U
Dimethyl Phthalate	0.5		U	U

U Not detected at or above the MRL.

Approved By: Tom D. Hissinger Date: 10/28/99

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co.	**Service Request:**	J9902968
Project:	RPTA-Protocol Periodic Focused	**Date Collected:**	9/28/99
Sample Matrix:	Paperboard	**Date Received:**	9/29/99
		Date Extracted:	10/13/99

Total Metals
Units: mg/Kg(ppm)
As Received Basis

Sample Name:	**Paper Composite**
Lab Code:	J9902968-01
Date Analyzed:	10/25/99

Analyte	**EPA Method**	**MRL**	
Lead	6020	2	3.74

U Not detected at or above the MRL.

Approved By: Tom D. Hessinger Date: 10/28/99

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

Client: Michigan Paperboard Co. Work order: J9902968
Project: RPTA-Protocol Periodic Focused / --
Cooler received on 9/29/99 1100 and opened on 9/29/99 1100 by THT

		Yes	No	N/A
1	Were custody seals on outside of cooler?	☒	☐	☐
	If yes, how many and where? One on lid			☐
	Were signature and date correct?	☒	☐	☐
2	Were custody papers properly filled out (ink, signed, etc....)?	☒	☐	☐
3	Did all bottles arrive in good condition (unbroken, etc....)?	☒	☐	☐
4	Were all bottle labels correct (analysis, preservation, etc....)?	☒	☐	☐
5	Did all bottle labels and tags agree with custody papers?	☒	☐	☐
6	Were correct bottles used for test indicated?	☒	☐	☐
7	Were VOA vials checked for absence of air bubbles, and noted?	☐	☐	☒
8	Temperature of cooler upon receipt	_____ Degrees C		

Explain any discrepancies: _____

		Yes	No
pH	Reagent		
12	NaOH		
2	HNO_3		
2	H_2SO_4		

Yes = all samples OK
No = Samples were preserved at lab as listed

Comments:

Sample I.D.	Reagent	Vol.

PURCHASE ORDER

THIS ORDER NO. MUST APPEAR ON ALL LABELS, PACKING LISTS AND INVOICES.

69901

PAGE 1

MICHIGAN PAPERBOARD COMPANY
79 East Fountain Street • Battle Creek, Michigan 49017

REQUISITION NO.

DATE 9/24/99

SEND ALL INVOICES IN QUADRUPLICATE TO:
ACCOUNTING DEPARTMENT
MICHIGAN PAPERBOARD CORP.
79 EAST FOUNTAIN STREET
BATTLE CREEK, MI 49017-4192
SHIP TO US AT:
FOUNTAIN ST. - DOCK F-3

ATTN: JIM HOSKING

TO:
COLUMBIA ANALYLITICAL SERVICE
8540 BAY CENTER RD.
JACKSONVILLE, FL 32256

08826-001

TE REQUIRED AT PLANT	SHIP VIA	F.O.B.	TERMS
9/20-24/99	VENDOR		NET 45

EM IO.	QUANTITY	OUR CODE NUMBER OR ACCOUNT	DESCRIPTION	UNIT PRICE
1		99525628	CONFIRMING...DO NOT DUPLICATE COMPOSITE SAMPLE - RPTA PROTOCOL PERIODIC FOCUSED ANALYSIS SEPTEMBER 20 THRU SEPTEMBER 24, 1999	$449.00
			RECEIVING HOURS ARE 7:30 AM TO 2:30 PM SALES AND USE TAX STATUS FOR USE IN INDUSTRIAL PROCESSING. PLEASE SEND M.S.D.S. FOR FIRST-TIME ORDERS.	

VENDOR OR CONTRACTOR REPRESENTS THAT IT IS IN COMPLIANCE WITH THE REQUIREMENTS OF EXECUTIVE ORDER 11246, AS AMENDED, RELATING TO EQUAL EMPLOYMENT OPPORTUNITY AND NON-SEGREGATED FACILITIES; EXECUTIVE ORDER 11625 RELATING TO MINORITY BUSINESS ENTERPRISE; EXECUTIVE ORDER 11701 (CFR 60-250) ELATING TO THE EMPLOYMENT OF VETERANS; AND THE REHABILITATION ACT OF 1973 (41 CFR 60-741) RELATING TO THE EMPLOYMENT OF HANDICAPPED PERSONS."

IMPORTANT

This order must not be filled at higher prices without our authority. Acknowledgement of this order must be made immediately and a copy of the order may be used in making such acknowledgement.

SEE ADDITIONAL TERMS AND CONDITIONS ON BACK.

By _____

PURCHASING MANAGER
ACTING AS AGENT FOR
MICHIGAN CARTON & PAPERBOARD COMPANY

MPH

REQUISITIONER

ACKNOWLEDGMENT OF RECEIPT OF SAMPLES

TO: Jim Hosking

FROM: Tom Kissinger/Project Chemist
Columbia Analytical Services, Inc.

This is to inform you that the samples received on 9/29/99 1100
for your project RPTA-Protocol Periodic Focused/--
have been assigned CAS service request number J9902968

A copy of our CAS service request or intercompany service request is attached. If you have any questions regarding the status of this work, please call me at (904) 739-2277.

Thank you for your business.

Number of pages (including cover sheet): 2

Columbia Analytical Services, Inc.
8540 Baycenter Road
Jacksonville, FL 32256
(904) 739-2277
(904) 739-2011 fax

Service Request J9902968

Project Name:	RPTA-Protocol Periodic Focused	Reviewed by:	THT	Date Received:	9/29/99 1100
Project Number	–	Logged in by:	THT	Date Required:	10/20/99
Client Name:	Michigan Paperboard Co.	Rec'd by:	THT	Copies of SR to: VOC	
Client Number:	7270089	Project Chemist:	Tom Kissinger	SOC	1
Report To:	Jim Hosking	P.O. #:	69901	Metals	1
Address:	79 E Fountain St.			Gen Chem	
	Battle Creek, MI 49017			Micro	
Phone:	616-963-4004				
Fax Number:	616-963-4425				

Special Instructions:

Sample Description:
Soil: ___
Water: ___
Other: X

Chain of Custody:
Yes: X
No: ___

Samples Stored:
Walk In: A4
Hall: ___
VOA: ___

Reporting:
Tier: I
EDD: ___
DOD: ___

Bottles Received:
1-L Amber ___
500 Amber ___
16 oz glass ___
8 oz glass ___
VOA soil ___
250 EDB ___
White plastic ___
Red plastic ___
Yellow plastic ___
Green plastic ___
VOA vial sets ___
Other 1

1	Pb	18			
2	PAHs/Phthalates	19			
3		20			
4		21			
5		22			
6		23			
7		24			
8		25			
9		26			
10		27			
11		28			
12		29	Lab J:		I.D.
13		30	35		
14		31	36		
15		32	37		
16		33	38		
17		34	39		

Lab Codes	Sample ID	Test to be performed	Sample Date	Matrix
J9902968-01	Paper Composite	1,2	9/28/99	Paper Board

Composite Sheets Before Analyzing

847-437-4987

Michigan Paperboard Company

Technical Department
79 East Fountain Street
Battle Creek, MI 49017

TO: Chris Blume

FROM: Barb Russell

DATE: 11/1/99 TIME: PM

TOTAL NUMBER OF PAGES, INCLUDING COVER SHEET: 7

If all pages are not received or are indecipherable, feel free to contact us at:

LAB: (616) 963-4004 ext. 271 FAX: (616) 963-4425

Chris,

Here are the Last Protocol results. Let me know if you see any problems. They come from on other machine.

B

Columbia Analytical Services, Inc.
8540 Baycenter Road
Jacksonville, FL 32256
(904) 739-2277 Voice
(904) 739-2011 FAX

An Employee-Owned Company

FAX TRANSMITTAL

TO: Jim Hosking **FROM:** Mandy
FAX# (616) 9634425 **DATE:** 10/28/99

MESSAGE: RPTA-Protocol Periodic Focused Results

NUMBER OF PAGES 5 **(Including cover sheet)**

Important Note
The documents accompanying this transmission may contain information which is legally privileged and/or confidential. The information is intended only for the use of the individual or entity named above. If you are not the intended recipient, or the person responsible for delivering it to the intended recipient, you are hereby notified that any disclosure, copying, distribution, or use of any of the information contained in this transmission is strictly **PROHIBITED**. If you have received this transmission in error, please immediately notify use by telephone and mail the original transmission to us. Thank you for your cooperation and assistance.

Columbia Analytical Services INC.
An Employee-Owned Company

October 28, 1999

Service Request No. J9902968

Certification Numbers:

Florida DEP:	930298G
Florida HRS:	E82502; 82483
Massachusetts:	M-FL937
New Hampshire:	294297-A; 294297-B
North Carolina:	527
South Carolina:	96021001
A2LA	0490-02

Jim Hosking
Michigan Paperboard Co.
79 E Fountain St.
Battle Creek, MI 49017

RE. Project No.: --
Project Name: RPTA-Protocol Periodic Focused

Dear Jim Hosking:

Enclosed are the results of the samples(s) submitted to our laboratory on September 29, 1999. For your reference, these analyses have been assigned our service request number J9902968.

All analyses were performed according to our laboratory's quality assurance program. All results are intended to be considered in the entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions.

Respectfully submitted,

Columbia Analytical Services, Inc.

Tom Kissinger
Project Chemist

TK/jg

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: RPTA-Protocol Periodic Focused
Sample Matrix: Paperboard

Service Request: J9902968
Date Collected: 9/28/99
Date Received: 9/29/99
Date Extracted: 10/11/99

Polynuclear Aromatic Hydrocarbons (PAHs)
EPA Methods 3550/8270C
Units: mg/Kg (ppm)

Sample Name:	**Paper Composite**	**Method Blank**
Lab Code:	J9902968-01	J991011-MB
Date Analyzed:	10/13/99	10/13/99

Analyte	**MRL**		
Acenaphthene	0.01	U	U
Acenaphthylene	0.01	U	U
Anthracene	0.01	U	U
Benz(a)anthracene	0.01	U	U
Benzo(a)pyrene	0.01	U	U
Benzo(b)fluoranthene	0.01	U	U
Benzo(ghi)perylene	0.01	U	U
Benzo(k)fluoranthene	0.01	U	U
Chrysene	0.01	U	U
Dibenz(a,h)anthracene	0.01	U	U
Fluoranthene	0.01	0.05	U
Fluorene	0.01	U	U
Indeno(1,2,3-cd)pyrene	0.01	U	U
Naphthalene	0.01	0.02	U
Phenanthrene	0.01	0.03	U
Pyrene	0.01	0.04	U

U Not detected at or above the MRL.

Approved By: Tom D. Kissing Date: 10/28/99

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: RPTA-Protocol Periodic Focused
Sample Matrix: Paperboard

Service Request: J9902968
Date Collected: 9/28/99
Date Received: 9/29/99
Date Extracted: 10/11/99

Phthalate Esters
EPA Methods 3550/8270C
Units: mg/Kg (ppm)

	Sample Name:	**Paper Composite**	**Method Blank**
	Lab Code:	J9902968-01	J991011-MB
	Date Analyzed:	10/13/99	10/13/99
Analyte	**MRL**		
Bis(2-ethylhexyl) Phthalate	0.5	2.4	U
Butyl Benzyl Phthalate	0.5	0.8	U
Di-n-butyl Phthalate	0.5	2.0	U
Di-n-octyl Phthalate	0.5	U	U
Diethyl Phthalate	0.5	U	U
Dimethyl Phthalate	0.5	U	U

U Not detected at or above the MRL.

Approved By: Tom D. Lysinger Date: 10/28/99

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: RPTA-Protocol Periodic Focused
Sample Matrix: Paperboard

Service Request: J9902968
Date Collected: 9/28/99
Date Received: 9/29/99
Date Extracted: 10/13/99

Total Metals
Units: mg/Kg(ppm)
As Received Basis

Sample Name:	**Paper Composite**
Lab Code:	J9902968-01
Date Analyzed:	10/25/99

Analyte	**EPA Method**	**MRL**	
Lead	6020	2	3.74

U Not detected at or above the MRL.

Approved By: Tom D. Kissinger Date: 10/28/99

MICHIGAN PAPERBOARD - PROTOCOL WORKSHEET

PAPERMACHINE #2 **P.O. # 67925**

COLUMBIA ANALYTICAL SERVICES
8540 BAYCENTER ROAD
JACKSONVILLE, FLORDIA 32256
1-904-739-2277 FAX 1-904-739-2022

DATE	TIME	GRADE	REEL #	BASIS WGT.	
		#2 MAC.			
3/8/99	1:40 PM	16.0 MUP	227	63.7	JH/CB/KB
3/9/99	10:30 AM	18.0 MUP	254	71.3	JH/SC
3/10/99	10:16 AM	20.0 MUP	289	76.8	JH/KB
3/11/99	10:30 AM	17.0 MUP	318	69.0	SC/JH
3/12/99	10:32 AM	17.0 MUP	351	68.5	JH/EY
PO#69057		#2 MAC.			
6/21/99	1:50 PM	20.0 MUP	575	76.2	SC/DH
6/22/99	2:31 PM	19.0 MUP	607	74.8	SC/DH
6/23/99	2:11 PM	19.0 MUP	639	75.7	SC/DH
6/24/99	2:13 PM	18.0 MUP	666	70.9	SC/DH
6/25/99	9:14 AM	18.0 MUP	691	69.5	SC/DH

LATEST TEST

		#1 MAC.				
9/20/99	3:18 PM	18.0 MUP	704	75.6	JH/MT	
9/21/99	3:56 PM	18.0 MUP	759	73.6	JH/EY	
9/22/99	3:10 PM	24.0 MUP	803	95.9	JH/EY	WHITE BA
9/23/99	1:00 PM	22.0 MUP	844	90.3	JH/DA	
9/22/99	2:45 PM	20.0 MUP	896	80.2	JH/DW	

Columbia Analytical Services INC.
An Employee-Owned Company

July 20, 1999

Service Request No. J9901863A

Certification Numbers:

Florida DEP:	930298G
Florida HRS:	E82502; 82483
Massachusetts:	M-FL937
New Hampshire:	294297-A; 294297-B
North Carolina:	527
South Carolina:	96021001
A2LA	0490-02

Barbara Russell
Michigan Paperboard Co.
79 E Fountain St.
Battle Creek, MI 49017

RE: Project No.: 69057
Project Name: RPTA-Protocol Periodic Focused

Dear Barbara Russell:

Enclosed are the results of the samples(s) submitted to our laboratory on June 28, 1999. For your reference, these analyses have been assigned our service request number: J9901863A.

All analyses were performed according to our laboratory's quality assurance program. All results are intended to be considered in the entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions.

Respectfully submitted,

Columbia Analytical Services, Inc.

Tom Kissinger
Project Chemist

TK/jg

8540 Baycenter Rd. ▪ Jacksonville, FL 32256 ▪ (904) 739-2277 ▪ Fax (904) 739-2011

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co
Project: RPTA-Protocol Periodic Focused / 69057
Sample Matrix: Paperboard

Service Request: J9901863A
Date Collected: 6/21/99
Date Received: 6/28/99
Date Extracted: 7/14/99
Date Analyzed: 7/19/99

Tentatively Identified Compounds (TIC)
Base Neutral/Acid Semivolatile Organic Compounds
EPA Methods 3550/8270
Units mg/Kg (ppm)

Sample Name Paper Composite
Lab Code J9901863-01

CAS Number	TIC	Retention Time (minutes)	Estimated Concentration
629-78-7	Heptadecane	15 22	0 70
13049-35-9	2,2'-Diethyl-1,1'-biphenyl	15 54	0 60
593-45-3	Octadecane	17 42	0 80
57-10-3	n-Hexadecanoic Acid	18 10	1 0
112-95-8	Eicosane	18 45	0 60
629-94-7	Heneicosane	19 38	1 4
629-73-2	1-Hexadecene	20 94	1 6
638-67-5	Tricosane	20 99	0 55
629-99-2	Pentacosane	22 34	2 0
646-31-1	Tetracosane	24 04	2 6
630-03-5	Nonacosane	24 58	2 4

Approved By Tom D. Hissinger Date 8/25/99

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co	**Service Request:**	J9901863A
Project:	RPTA-Protocol Periodic Focused / 69057	**Date Collected:**	6/21/99
Sample Matrix:	Paperboard	**Date Received:**	6/28/99
		Date Extracted:	7/14/99
		Date Analyzed:	7/19/99

Tentatively Identified Compounds (TIC)
Base Neutral/Acid Semivolatile Organic Compounds
EPA Methods 3550/8270
Units mg/Kg (ppm)

Sample Name Paper Composite
Lab Code J9901863-01

CAS Number	TIC	Retention Time (minutes)	Estimated Concentration
638-68-6	Triacontane	25 14	2 0
629-97-0	Docosane	26 43	1 3

Approved By Tom D. Ilsinger Date 8/25/99

Columbia Analytical Services INC
An Employee Owned Company

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST

8540 Baycenter Rd • Jacksonville, FL 32256 • (904) 739-2277 • 800-695-7222 • FAX (904) 739-2011

DATE _____ PAGE _____ OF _____

PROJECT NAME _____

PROJECT # _____

COMPANY/ADDRESS _____

_____

_____ PHONE _____

REPORT TO _____

SAMPLER'S SIGNATURE _____

ANALYSIS REQUEST

RPTA – Focused Sampling ☐
(Short List)

RPTA – Baseline Sampling ☐
(Comprehensive)

SAMPLE I D	DATE	TIME	REMARKS

RELINQUISHED BY:	RECEIVED BY:
Signature	Signature
Printed Name	Printed Name
Firm	Firm
Date/Time	Date/Time

SPECIAL INSTRUCTIONS/COMMENTS

INVOICE INFORMATION:	SAMPLE RECEIPT:
P O # _____	Shipping VIA _____
Bill To _____	Shipping to _____
_____	Condition _____
_____	_____
_____	Lab No _____

DISTRIBUTION WHITE - return to originator, YELLOW - lab, PINK - retained by originator

Columbia Analytical Services INC
An Employee Owned Company

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST

8540 Baycenter Rd • Jacksonville, FL 32256 • (904) 739-2277 • 800-695-7222 • FAX (904) 739-2011

DATE _____ PAGE _____ OF _____

PROJECT NAME _____

PROJECT # _____

COMPANY/ADDRESS _____

_____

_____ PHONE _____

REPORT TO _____

SAMPLER'S SIGNATURE _____

ANALYSIS REQUEST

RPTA – Focused Sampling ☐
(Short List)

RPTA – Baseline Sampling ☐
(Comprehensive)

SAMPLE I.D.	DATE	TIME	REMARKS

RELINQUISHED BY:

Signature _____

Printed Name _____

Firm _____

Date/Time _____

RECEIVED BY:

Signature _____

Printed Name _____

Firm _____

Date/Time _____

SPECIAL INSTRUCTIONS/COMMENTS:

INVOICE INFORMATION:

P O # _____

Bill To _____

_____

_____

_____

SAMPLE RECEIPT:

Shipping VIA: _____

Shipping to. _____

Condition. _____

_____

Lab No _____

DISTRIBUTION WHITE - return to originator, YELLOW - lab, PINK - retained by originator

Columbia Analytical Services INC
An Employee Owned Company

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST

8540 Baycenter Rd • Jacksonville FL 32256 • (904) 739-2277 • 800-695-7222 • FAX (904) 739-2011

DATE _____ PAGE _____ OF _____

PROJECT NAME _____

PROJECT # _____

COMPANY/ADDRESS _____

_____

_____ PHONE _____

REPORT TO _____

SAMPLER S SIGNATURE _____

ANALYSIS REQUEST

RPTA – Focused Sampling ☐
(Short List)

RPTA – Baseline Sampling [ ]
(Comprehensive)

SAMPLE I D	DATE	TIME	REMARKS

RELINQUISHED BY:	RECEIVED BY:
Signature	Signature
Printed Name	Printed Name
Firm	Firm
Date/Time	Date/Time

SPECIAL INSTRUCTIONS/COMMENTS

INVOICE INFORMATION:	SAMPLE RECEIPT:
P O #	Shipping VIA
Bill To	Shipping to
	Condition
	Lab No

DISTRIBUTION WHITE - return to originator, YELLOW - lab, PINK - retained by originator

Columbia Analytical Services inc.
An Employee-Owned Company

July 20, 1999

Service Request No. J9901863A

Barbara Russell
Michigan Paperboard Co.
79 E Fountain St.
Battle Creek, MI 49017

Certification Numbers:

Florida DEP:	930298G
Florida HRS:	E82502; 82483
Massachusetts:	M-FL937
New Hampshire:	294297-A; 294297-B
North Carolina:	527
South Carolina:	96021001
A2LA	0490-02

RE: Project No.: 69057
Project Name: RPTA-Protocol Periodic Focused

Dear Barbara Russell:

Enclosed are the results of the samples(s) submitted to our laboratory on June 28, 1999. For your reference, these analyses have been assigned our service request number: J9901863A.

All analyses were performed according to our laboratory's quality assurance program. All results are intended to be considered in the entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions.

Respectfully submitted,

Columbia Analytical Services, Inc.

Tom Kissinger
Project Chemist

TK/jg

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: RPTA-Protocol Periodic Focused / 69057
Sample Matrix: Paperboard

Service Request: J9901863A
Date Collected: 6/21/99
Date Received: 6/28/99
Date Extracted: 7/14/99
Date Analyzed: 7/19/99

Tentatively Identified Compounds (TIC)
Base Neutral/Acid Semivolatile Organic Compounds
EPA Methods 3550/8270
Units: mg/Kg (ppm)

Sample Name: Paper Composite
Lab Code: J9901863-01

CAS Number	TIC	Retention Time (minutes)	Estimated Concentration
629-78-7	Heptadecane	15.22	0.70
13049-35-9	2,2'-Diethyl-1,1'-biphenyl	15.54	0.60
593-45-3	Octadecane	17.42	0.80
57-10-3	n-Hexadecanoic Acid	18.10	1.0
112-95-8	Eicosane	18.45	0.60
629-94-7	Heneicosane	19.38	1.4
629-73-2	1-Hexadecene	20.94	1.6
638-67-5	Tricosane	20.99	0.55
629-99-2	Pentacosane	22.34	2.0
646-31-1	Tetracosane	24.04	2.6
630-03-5	Nonacosane	24.58	2.4

Approved By: Tom D. Hissinger Date: 8/25/99

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: RPTA-Protocol Periodic Focused / 69057
Sample Matrix: Paperboard

Service Request: J9901863A
Date Collected: 6/21/99
Date Received: 6/28/99
Date Extracted: 7/14/99
Date Analyzed: 7/19/99

Tentatively Identified Compounds (TIC)
Base Neutral/Acid Semivolatile Organic Compounds
EPA Methods 3550/8270
Units: mg/Kg (ppm)

Sample Name: Paper Composite
Lab Code: J9901863-01

CAS Number	TIC	Retention Time (minutes)	Estimated Concentration
638-68-6	Triacontane	25.14	2.0
629-97-0	Docosane	26.43	1.3

Approved By: Tom D. Ihssinger Date: 8/25/99

Columbia Analytical Services inc.
An Employee-Owned Company

July 20, 1999

Service Request No. J9901863

Certification Numbers:

Florida DEP:	930298G
Florida HRS:	E82502; 82483
Massachusetts:	M-FL937
New Hampshire:	294297-A; 294297-B
North Carolina:	527
South Carolina:	96021001
A2LA	0490-02

Barbara Russell
Michigan Paperboard Co.
79 E Fountain St.
Battle Creek, MI 49017

RE: Project No.: 69057
Project Name: RPTA-Protocol Periodic Focused

Dear Barbara Russell:

Enclosed are the results of the samples(s) submitted to our laboratory on June 28, 1999. For your reference, these analyses have been assigned our service request number: J9901863.

All analyses were performed according to our laboratory's quality assurance program. All results are intended to be considered in the entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions.

Respectfully submitted,

Columbia Analytical Services, Inc.

Tom Kissinger
Project Chemist

TK/jg

8540 Baycenter Rd ▪ Jacksonville, FL 32256 ▪ (904) 739-2277 ▪ Fax (904) 739-2011

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co.	**Service Request:**	J9901863
Project:	RPTA-Protocol Periodic Focused / 69057	**Date Collected:**	6/21/99
Sample Matrix:	Paperboard	**Date Received:**	6/28/99
		Date Extracted:	7/14/99

Polynuclear Aromatic Hydrocarbons (PAHs)
EPA Methods 3550/8270C
Units: mg/Kg (ppm)

Sample Name:	**Paper Composite**
Lab Code:	J9901863-01
Date Analyzed:	7/19/99

Analyte	**MRL**	
Acenaphthene	0.01	0.03
Acenaphthylene	0.01	U
Anthracene	0.01	U
Benz(a)anthracene	0.01	U
Benzo(a)pyrene	0.01	U
Benzo(b)fluoranthene	0.01	U
Benzo(ghi)perylene	0.01	U
Benzo(k)fluoranthene	0.01	U
Chrysene	0.01	U
Dibenz(a,h)anthracene	0.01	U
Fluoranthene	0.01	U
Fluorene	0.01	0.01
Indeno(1,2,3-cd)pyrene	0.01	U
Naphthalene	0.01	0.02
Phenanthrene	0.01	0.02
Pyrene	0.01	U

U Not detected at or above the MRL.

Approved By: [signature] Date: 7/20/99

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: RPTA-Protocol Periodic Focused / 69057
Sample Matrix: Paperboard

Service Request: J9901863
Date Collected: 6/21/99
Date Received: 6/28/99
Date Extracted: 7/14/99

Phthalate Esters
EPA Methods 3550/8270C
Units: mg/Kg (ppm)

Sample Name:	**Paper Composite**
Lab Code:	J9901863-01
Date Analyzed:	7/19/99

Analyte	**MRL**	
Bis(2-ethylhexyl) Phthalate	0.5	1.0
Butyl Benzyl Phthalate	0.5	U
Di-n-butyl Phthalate	0.5	1.1
Di-n-octyl Phthalate	0.5	U
Diethyl Phthalate	0.5	U
Dimethyl Phthalate	0.5	U

U Not detected at or above the MRL.

Approved By: Tom D. Lissinger Date: 7/20/99

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co.	**Service Request:**	J9901863
Project:	RPTA-Protocol Periodic Focused / 69057	**Date Collected:**	6/21/99
Sample Matrix:	Paperboard	**Date Received:**	6/28/99
		Date Extracted:	NA

Total Metals
Units: mg/Kg(ppm)
As Received Basis

		Sample Name:	**Paper Composite**	**Method Blank**
		Lab Code:	J9901863-01	J990706-MB
		Date Analyzed:	7/13/99	7/13/99
Analyte	**EPA Method**	**MRL**		
Lead	6020	2	U	U

U Not detected at or above the MRL.

Approved By: Tom D. Lissinger Date: 7/20/99

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

Client: Michigan Paperboard Co. Work order: J9901863

Project: RPTA-Protocol Periodic Focused / 69057

Cooler received on 6/28/99 and opened on 6/28/99 by THT

		Yes	No	N/A
1	Were custody seals on outside of cooler?	☐	☒	☐
	If yes, how many and where?			☒
	Were signature and date correct?	☐	☐	☒
2	Were custody papers properly filled out (ink, signed, etc....)?	☒	☐	☐
3	Did all bottles arrive in good condition (unbroken, etc....)?	☒	☐	☐
4	Were all bottle labels correct (analysis, preservation, etc....)?	☒	☐	☐
5	Did all bottle labels and tags agree with custody papers?	☒	☐	☐
6	Were correct bottles used for test indicated?	☒	☐	☐
7	Were VOA vials checked for absence of air bubbles, and noted?	☐	☐	☒
8	Temperature of cooler upon receipt	_____ Degrees C		

Explain any discrepancies: _____

		Yes	No
pH	Reagent		
12	NaOH		
2	HNO_3		
2	H_2SO_4		

Yes = all samples OK
No = Samples were preserved at lab as listed

Comments:

Sample I.D.	Reagent	Vol.

Columbia Analytical Services™

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST

8540 Baycenter Rd. • Jacksonville, FL 32256 • (904) 739-2277 • 800-695-7222 • FAX (904) 739-2011

DATE 06/25/99 PAGE 1 OF 1

PROJECT NAME RPTA- PROTOCOL PERIODIC FOCUSED (SHORT LIST)
PROJECT # 69057
COMPANY/ADDRESS Michigan Paperboard Company
79 East Fountain Street
Battle Creek, Michign 49017 PHONE 1-616-963-4004
REPORT TO: BARBARA RUSSELL
SAMPLER'S SIGNATURE Sara Cook Dave Hauffman

ANALYSIS REQUEST

RPTA – Focused Sampling (Short List) X

RPTA – Baseline Sampling (Comprehensive) ☐

SAMPLE I.D.	DATE	TIME	REMARKS
R575	6/21	1:50 pm	
R607	6/22	2:31 pm	
R639	6/23	2:11 pm	
R666	6/24	2:13 pm	
R691	6/25	9:14 am	

RELINQUISHED BY:
Signature: Jim Hosking
Printed Name: Jim Hosking
Firm: Michigan Paperboard
Date/Time: 06/25/99

RECEIVED BY:
Signature: Travis Trader
Printed Name: Travis Trader
Firm: CAS
Date/Time: 6/28/99 1000

SPECIAL INSTRUCTIONS/COMMENTS:

J9901863

INVOICE INFORMATION:
P.O.# 69057
Bill To MPC

SAMPLE RECEIPT:
Shipping VIA:
Shipping to:
Condition:
Lab No:

DISTRIBUTION: WHITE - return to originator; YELLOW - lab; PINK - retained by originator

Mending the Millenium: A Guide to Navigating Year 2000 and Beyond

Feature Cover Story: Reprinted with permission from Environmental Testing & Analysis Magazine, July/August 1998

Tom Parsons, George DeCarlo, Paul Gowan, Dee O'Neill, and John Tai, Kelso

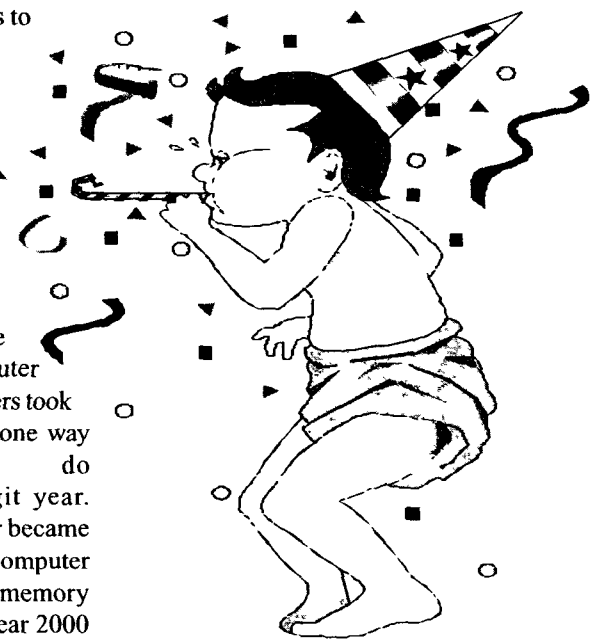
It's Year 2000. Happy New Year! Or is it? When the clock strikes midnight, will each internal clock in all of your laboratory computer operating and software systems change to the year "00" or to "2000"? Will your organization have successfully navigated the myriad storms associated with Y2K, or will you find your company's information systems and ability to successfully service clients wrecked upon the rocks of this century's most universally-feared problem?

The fact is that the laboratory industry, among many other industries, is now faced with serious computer issues variously known as the "Year 2000," "Millennium Bug," or "Y2K" problem. Wherever a computer chip or software code that contains a timed function resides—and they are ubi–quitous, from the laboratory information management system (LIMS), to the instrument, accounting and electronic data deliverable (EDD) systems, and even to the heating, ventilation and air conditioning (HVAC) system—may prove to be the iceberg upon which your laboratory runs aground.

Avoiding the resulting havoc in your laboratory and the possibility of significant disruption of services to your customers will take a proactive approach to solving Y2K issues from now until New Year's Eve 1999. The Information Technology (IT) Department of Columbia Analytical Services, Inc. (CAS), a network of nine commercial analytical chemistry labs, is spear–heading a major initiative to prepare the company for the Year 2000 and beyond. By sharing CAS's approach in developing a Year 2000 plan, it is hoped that other companies throughout the industry might benefit as well.

Y2K: The New Titanic?

Contrary to popular belief, the Year 2000 problem is not a conspiracy by instrument and software vendors to force labs to upgrade or replace lab equipment and software, although our suppliers will certainly benefit. Rather, it stems from a time when com–puter memory was expensive. In the late 1960s, a four kilobyte memory module sold for several thousand dollars whereas a four megabyte nodule costs a mere $15 today. Computer designers and soft–ware developers took shortcuts to save memory, and one way to do this was to create a two-digit year. Unfortunately, the two-digit year became standard design practice for the computer industry, even after the cost of memory became a non-issue. Thus, the Year 2000 problem was created and compounded in the last 10 years due to the boom in lab computer and systems automation.



The simple question for our industry is, "How will laboratory computer systems read '00'?" When a computer sorts dates by the year, how will "00" be interpreted? As a date earlier than "99" for 1999, or later than "99"? This is a simple question without a simple answer. Is your LIMS going to calculate hold times and due dates correctly? What if the imbedded clocks in your instrument hardware and software do not interpret the Year 2000 change correctly? A lab may be faced with instant and uncontrolled time travel, if you will.

Make Sure Your Compass Is Working

The clock stops for no laboratory and January 1, 2000 will arrive. Putting a priority on Year 2000 tasks is a must, primarily due to the time-critical nature of the problem. With only 18 months remaining, much work needs to be done to achieve compliance and to insure a smooth transition both within the lab and between the lab and the customer. Of course, there are many directions on the "operations compass" that must be factored into any lab's systematic approach to addressing Y2K: definition of the problem, inventory of the systems, testing and verification, implementation, and training.

Typical IT departments, however, do not have the enormous resource reserves to direct solely toward this effort and along so many directional lines, which means that schedules and timelines must be established quickly to determine the long-term scope and impact of the effort. If you do not allocate the time and resources before the effort begins, it will be extremely difficult to acquire either of them later.

It is also important to realize that Year 2000 solutions will inevitably require change that will impact the organization. At CAS, we want these changes to result in positive improvements in our work practices, not just negative capital drains. We know that many changes in the lab meet resistance—that's just human nature. But Y2K can be a very positive driver for change if handled correctly. Getting people involved early in the solutions process will help toward a smoother transition. If new software or hardware products are required, the lab personnel who will use them should be involved in the evaluations. These users provide valuable feedback that can be used

to make better decisions.

Definition of the Problem

By defining the term "Year 2000-compliant" at the start of developing your strategy, you can set the compass to work for your company's success. Your definition will include information from your systems inventory to include all the various operational aspects upon which Y2K will have an impact, information on how your lab's instrument and service providers will achieve Y2K compliance, as well as how your customers expect you, as their service provider, to achieve compliance. With regard to the latter, as the enormity of Y2K is recognized, companies are beginning to realize that while their internal Year 2000 compliance is very important, of equal significance is the state of Y2K compliance of their vendors and service providers. For example, a well-known car manufacturer recently discovered that one of their more popular vehicles has a microchip-driven ignition system, built by a subcontractor, that is not and will not be Year 2000-compliant. Simply put, car owners will not be able to start these particular vehicles after December 31, 1999. With more stories like this garnering publicity, it is no wonder that our customers are concerned about the Year 2000 compliance of their laboratory services suppliers.

As an example of some of the valuable input your customers will have on your definition, here is what some of CAS's customers have been asking about the lab's ability to deal with Y2K:

- Will there be any interruption or delay of service from the lab due to Year 2000 issues?
- Are physical facilities and systems compliant with Year 2000?
- Will the data provided by the lab be compromised in any way?
- Are your instruments and software systems Year 2000-compliant?
- Can archived data be retrieved?
- Will there be any problems with EDDs when they are uploaded?
- What are your contingency plans in case of a Year 2000 failure?

In answering your customers' concerns, you will likely identify some fundamental parts of your definition that will help your lab meet the challenges of Y2K. Many Year 2000 questionnaires received by our lab are very helpful in checking the completeness of our strategy. On the other side of the coin, many labs are receiving a flurry of contract addendums and questionnaires designed to evaluate their readiness to deal with Year 2000 issues. These contract addendums generally contain broad, sweeping statements requiring that the lab achieve Year 2000-compliance from a specific date forward, and that any service or product provided in the past must also be compliant. Before returning such a questionnaire to a customer, it should undergo thorough risk management and legal review to ensure that the interest and rights of the laboratory are protected.

Finally, make sure your staff, suppliers and customers all understand and agree with your company's definition. For example, CAS provides client-specific EDDs on a routine basis to customers. These EDDs are usually stored in a text format, which merely stores dates rather than processes them. However, these dates may be used in the customer's database for calculations. When a client requests an EDD for their database, we are sure to remind them that we have no control over their database or responsibility for the EDD format that the client has specified.

Inventory of the Systems

Despite great efforts to maintain consistency across the CAS network of laboratories, there is quite a bit of diversity with regard to software and instrument systems, various naming conventions, and so on, among the various facets of the organization. Standardizing Year 2000-compliant software and instrument systems will improve operating efficiencies and communication across the laboratory network. Initial inventory of affected software and hardware systems has proved to be a great tool in discerning urgent, high-priority needs from the less important ones. Whether you have one lab or 23, identifying and characterizing noncompliant systems is the first step in deciding how to implement your compliance program.

Begin the systems inventory by streamlining your internal laboratory processes, keeping an eye out for those that employ several different software products, yet generate the same final output. You may be able to get the functionality previously found in many software products in one common system that is Year 2000-compliant. For example, CAS utilizes several different types of software to acquire and process analytical data from many different types of instruments. The company has decided to purchase a single Year 2000-compliant system that will eventually replace all existing systems. This puts a vast majority of data processing under one common interface with a consistent output to the central LIMS system. Of course, this is a capital expenditure, but we believe the return justifies the investment and solves one Year 2000 issue at the same time.

During your inventory, consider whether this is an opportune time to retire aging systems. The price of new computer systems is plunging fast, and there are enormous productivity gains to be had when faster computer processors are utilized. If you do not want to give up these old computers through donations or auctions, consider using them in areas of the lab that do not require speed or Year 2000 compliance. CAS has transformed many old computers into print servers, modem servers, or tape backup machines. Old instrumentation should also be evaluated. For example, some instrument manufacturers are currently offering a discount on new equipment when old instruments are traded in. If the discount is not enough of an incentive, please note that some will not support retired instruments in the near future. New instrumentation is often more sensitive, faster, better automated, more energy and space efficient, and easier to operate. All of these

Contact CAS at (360) 577-7222 or jtai@kelso.caslab.com

can speed up your return on investment. If you're in this business for the long haul, purchasing new instru–mentation may definitely be worth investigating.

Testing and Verification

Once you've identified the many computer-run information management and instrumentation systems that will be affected by Y2K, the next step is one of the most challenging: testing to ensure that your laboratory's production will continue uninterrupted. Testing encompasses both software and hardware aspects of computerized systems. The software can include operating systems, data files, in-house development projects and commercial applications. Hardware extends much further, including information systems, related computing equipment and non-information system devices. In an environment that relies so heavily on information systems, the foremost duty of the testing team is to assure that the flow of information will continue uninterrupted.

The task of testing can seem like an overwhelming obstacle, but with the proper approach and planning, it quickly becomes an achievable goal. Testing requires resources in both manpower and equipment. Although equipment already exists, using production equipment for testing may be disruptive to the lab's daily operation. When using production equipment, more variables are introduced than are desired resulting in a lengthy and difficult testing cycle. Because there are no certainties that anything is compliant, CAS has chosen to create a new testing environment.

If we had a time machine, it would be easy to go forward and see the problems as they happen. We do not have this convenience, so at CAS, we have created the next best thing to test the various solutions to the identified Y2K problems: the time room. The basic concept is that when you step into the time room, you've entered a full-service laboratory operating in the year 2000. The calendar on the wall reads February 2000. By focusing on one piece of each system at a time, a laboratory within a laboratory is being built via the duplication of the lab's systems. Much of the testing of existing systems is eliminated, since we are starting with new equipment that we know is compliant. On this equipment, we are loading software that we know is compliant. Essentially, we are creating an infrastructure that is compliant from the start.

The infrastructure is just the beginning of a solid testing and verification program. CAS is mapping out complete process charts describing the life of data. The paths on which data travels within the system will be prioritized according to business importance and their complexity. The paths will be tested one at a time through every pathway of a project. Paths without problems will be approved for operation, while those with problems will be marked for later analysis. A determination will be made regarding the cause of a failed test. Minor problems will be fixed and testing will continue. Severe problems will be noted and reviewed at the end of the testing. The map documents the progress of the testing at any given time and will be a good resource for evaluating the situation.

Once the first stage of testing is complete, the map will be reviewed along with all the problems encountered. Problem areas can be identified and solutions can be implemented on a priority basis. Several more stages of testing will be used to verify that all paths function in the newly modified system. After a compliant system is operational in the time room, testing will be performed to verify the hardware systems in current operation in the lab. If any information system-related hardware in the lab fails the tests, an alternative solution can be developed in the time room without adversely affecting daily operations.

Implementation and training

There are many different approaches to correcting the Year 2000 problem from which to choose:

- **"Windowing"** changes the inter–pretation of two-digit dates based on an arbitrary selection. By opting for this tactic, you delay dealing with the problem until a later date. If this functionality is not built into the programs your business uses, however, chances are you will not have enough programming resources to complete the conversion on time. Overall, it is regarded as a poor option, since it is more cost-effective to deal with the problem now rather than later.
- **Replacement** of noncompliant systems with off-the-shelf solutions is a good option, if possible. For example, utilizing Y2K-compliant software that offers functionality to existing elements of your information systems can save a lot of time and money. It is unwise to allocate your software development and operations/support teams' precious time on a system that is or will be obsolete.
- **Modification** of the system may be required if there is no off-the-shelf product on the market that meets your needs. This is a good option if you can determine that it will be faster to modify some applications rather than rewrite mission-critical applications in another programming language.
- **Retirement** of old equipment, hardware, software and operating systems and replacement with Year 2000-compliant systems is a good option, if feasible.

All of these approaches are IT resource-intensive, requiring heavy reliance on your programming and technical staff. Potential remedies need not depend solely upon your own programmers, but may include prepackaged solutions by vendors and consultants specializing in Y2K problems. It is highly recommended that you retain these specialists soon, or you will find that they will be unavailable or outrageously expensive as the next century nears. For this reason, a lab's Y2K plan should be formulated to include internal IT and lab personnel, outside experts and ready-made off-the-shelf solutions.

Of course, implementing due diligence within any Year 2000 scheme is of the utmost necessity. Use audit trails to create an historical record of events and to track progress throughout the evaluation process. This might include keeping proper information related to policies and procedures, evaluating and implementing reports, and assembling risk compliance task information into a dynamically accessible format. The audit trail ensures that all critical legal benchmarks are met.

Contact CAS at (360) 577-7222 or jtai@kelso.caslab.com

Another important aspect of Year 2000 plan implementation is a commitment to teamwork among all your lab's staff members. A teaming concept has been the backbone of the CAS Year 2000 effort. Establishing teams to address the numerous areas of focus, such as hardware, software, operating systems and network and functional groups for lab operations, administrative functions, and day-to-day operations allows the company to focus attention on the most critical areas first. For example, led by a Year 2000 project manager, Tom Parsons, the IT group is orchestrating the process of problem identification and developing a remediation plan, which has received overwhelming support from both the senior management and the board of directors. This "buy-in" from management conveys the importance of these efforts to the whole enterprise.

Y2K can affect every department in our highly automated industry, making it doubly important to include everyone in your plan's implementation. Lab managers, in conjunction with IT staff, should be responsible for the assignment of resources to assist and identify problem areas, suggest operational procedures and processes for remediation, and provide insight into day-to-day operational impact. Other administrative functions, such as accounting and human resources, will need to assess software and critical processes within those specific areas to determine whether they may require alterations. Business development and project chemist staff will play a key role in your Y2K program, as well. Although these employees do not deal directly with technical repairs or requirements, their day-to-day dealings with lab clients enable them to act as liaisons on behalf of the technical staff. Risk management staff play an important role in the Year 2000 effort by reviewing vendor and client contracts and correspondence to ensure that the lab properly addresses its legal risks associated with each client relationship.

Training and education of all staff is critical to the success of your Year 2000 project. The importance of allocating resources to this is often overlooked, resulting in project failure due to poor training. Communication with and education of your customers is also critical.

Full Steam Ahead to Your Company's Success

The key to achieving Year 2000 compliance is to start now. The problems represented by the Y2K issue will only grow in number and complexity as the date approaches. A company that decides to wait or finds itself stalled by bureaucratic delays will incur extra costs and assume enormous risks. IT groups and firms qualified to help organizations with Y2K issues have assignments well into next year. CAS has found that the major stepping stones to navigate through Year 2000 issues include:

- Define the term "Year 2000-compliant" and make sure staff, suppliers and customers understand and agree with the definition.
- Communicate with your clients to make them aware of your plans. Honestly answer any questions they might have about your lab systems and how this might affect their data. Be very cautious when evaluating any Y2K addendums or other documents.
- Familiarize yourself with published approaches such as windowing, replacement, modification, or retirement.
- Build a team that will identify the nature and scope of the problem. Ask yourself, "What will happen if we do not address the Year 2000 issue?"
- Allow the Year 2000 project to create opportunities for your lab by re-evaluating your processes and streamlining your operations. Use it as a driver to create positive change in your laboratory.
- Allocate sufficient resources to make the project a success. Look for resources outside of your company, if necessary.
- Create a process flowchart to help you visually identify the impact of Y2K.
- Divide the project into manageable pieces and assign them to people with the most expertise.
- Get the approval and support of senior management.
- Document all phases of your plan to minimize potential legal ramifications.
- Always test your solutions, and if possible, set up testing environments that will not impact the daily lab operations.
- Train your laboratory staff in the use of new systems.

CAS has devoted a significant amount of time and effort to thoroughly evaluate the scope of the Year 2000 problem, and we feel confident that we will be ready to move into the new millennium without missing one second—or one byte of data. The company's estimated costs to achieve Year 2000 compliance total close to $1 million. Expensive, yes, but worth the effort to avoid a potential multimillion dollar tidal wave of problems. Your organization's successful navigation around the Year 2000 problem is vital to your continued success in the new millenium. But while you look to the horizon, expertly steering your ship around Y2K, remember to look for other data-related hazards that might be closer to your bow: Think about 9/9/99.

CAS is available to laboratories for Y2K audits and consulting services. Call John Tai in Kelso at (360) 577-7222.

***Tom Parsons** works as a systems analyst for CAS and is team leader for CAS' Year 2000 Project.*

***George DeCarlo** is a network systems specialist for CAS and is responsible for Year 2000 testing.*

***Paul Gowan** works at CAS as a technical information specialist responsible for instrument interfacing and automated reporting projects.*

***Dee O'Neill** is the risk/contracts manager for CAS, responsible for reviewing all customer and vendor contracts. Year 2000 compliance is one area of focus in this review process.*

***John Tai** is CAS information technology director and is responsible for all aspects of computer and software systems planning and operations.*

Columbia Analytical Services Inc.
An Employee-Owned Company

July 20, 1999

Service Request No. J9901863

Certification Numbers:

Florida DEP:	930298G
Florida HRS:	E82502; 82483
Massachusetts:	M-FL937
New Hampshire:	294297-A; 294297-B
North Carolina:	527
South Carolina:	96021001
A2LA	0490-02

Barbara Russell
Michigan Paperboard Co.
79 E Fountain St.
Battle Creek, MI 49017

RE: Project No.: 69057
Project Name: RPTA-Protocol Periodic Focused

Dear Barbara Russell:

Enclosed are the results of the samples(s) submitted to our laboratory on June 28, 1999. For your reference, these analyses have been assigned our service request number: J9901863.

All analyses were performed according to our laboratory's quality assurance program. All results are intended to be considered in the entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions.

Respectfully submitted,

Columbia Analytical Services, Inc.

Tom Kissinger
Project Chemist

TK/jg

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: RPTA-Protocol Periodic Focused / 69057
Sample Matrix: Paperboard

Service Request: J9901863
Date Collected: 6/21/99
Date Received: 6/28/99
Date Extracted: 7/14/99

Polynuclear Aromatic Hydrocarbons (PAHs)
EPA Methods 3550/8270C
Units: mg/Kg (ppm)

Sample Name:	**Paper Composite**
Lab Code:	J9901863-01
Date Analyzed:	7/19/99

Analyte	**MRL**	
Acenaphthene	0.01	0.03
Acenaphthylene	0.01	U
Anthracene	0.01	U
Benz(a)anthracene	0.01	U
Benzo(a)pyrene	0.01	U
Benzo(b)fluoranthene	0.01	U
Benzo(ghi)perylene	0.01	U
Benzo(k)fluoranthene	0.01	U
Chrysene	0.01	U
Dibenz(a,h)anthracene	0.01	U
Fluoranthene	0.01	U
Fluorene	0.01	0.01
Indeno(1,2,3-cd)pyrene	0.01	U
Naphthalene	0.01	0.02
Phenanthrene	0.01	0.02
Pyrene	0.01	U

U Not detected at or above the MRL.

Approved By: Tom D. [illegible] Date: 7/20/99

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co.	**Service Request:**	J9901863
Project:	RPTA-Protocol Periodic Focused / 69057	**Date Collected:**	6/21/99
Sample Matrix:	Paperboard	**Date Received:**	6/28/99
		Date Extracted:	7/14/99

Phthalate Esters
EPA Methods 3550/8270C
Units: mg/Kg (ppm)

Sample Name:	**Paper Composite**
Lab Code:	J9901863-01
Date Analyzed:	7/19/99

Analyte	**MRL**	
Bis(2-ethylhexyl) Phthalate	0.5	1.0
Butyl Benzyl Phthalate	0.5	U
Di-n-butyl Phthalate	0.5	1.1
Di-n-octyl Phthalate	0.5	U
Diethyl Phthalate	0.5	U
Dimethyl Phthalate	0.5	U

U Not detected at or above the MRL.

Approved By: Tom D. Kissinger Date: 7/20/99

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: RPTA-Protocol Periodic Focused / 69057
Sample Matrix: Paperboard

Service Request: J9901863
Date Collected: 6/21/99
Date Received: 6/28/99
Date Extracted: NA

Total Metals
Units: mg/Kg(ppm)
As Received Basis

		Sample Name:	**Paper Composite**	**Method Blank**
		Lab Code:	J9901863-01	J990706-MB
		Date Analyzed:	7/13/99	7/13/99
Analyte	**EPA Method**	**MRL**		
Lead	6020	2	U	U

U Not detected at or above the MRL.

Approved By: Tom D. Lissinger Date: 7/20/99

mpc

Michigan Paperboard Company

To: CHRIS BLUME

From: BARB RUSSELL

Date: 7/23/99 Time: AM

Total Number of Pages (Including Cover Sheet): 5

If You Do Not Receive All Pages, Please Call Us At:
(616) 963-4004 Telecopy Number: (616) 963-4425

Chris -
Here are the latest results

Barb

Date	GRADE	BW
6/21	20 MuP	76.2
6/22	19	74.8
6/23	19	75.7
6/24	18	70.9
6/25	18	69.5

ACKNOWLEDGMENT OF RECEIPT OF SAMPLES

TO: Barbara Russell

FROM: Tom Kissinger/Project Chemist
Columbia Analytical Services, Inc.

This is to inform you that the samples received on 6/28/99
for your project RPTA-Protocol Periodic Focused/69057
have been assigned CAS service request number J9901863

A copy of our CAS service request or intercompany service request is attached. If you have any questions regarding the status of this work, please call me at (904) 739-2277.

Thank you for your business.

Number of pages (including cover sheet): 2

Columbia Analytical Services, Inc.
8540 Baycenter Road
Jacksonville, FL 32256
(904) 739-2277
(904) 739-2011 fax

Project Name:	RPTA-Protocol Periodic Focused	**Service Request**	**J9901863**		
Project Number	69057	Reviewed by:	TDK	Date Received:	6/28/99
Client Name:	Michigan Paperboard Co.	Logged in by:	THT	Date Required:	7/20/99
Client Number:	7270089	Rec'd by:	THT	Copies of SR to:	VOC
Report To:	Barbara Russell	Project Chemist:	Tom Kissinger		SOC 1
Address:	79 E Fountain St.	P.O. #:	69057		Metals 1
	Battle Creek, MI 49017			Sample Description:	Gen Chem
Phone:	616-963-4004			Soil:	Micro
Fax Number:	616-963-4425			Water:	
Special Instructions:				Other: X	Bottles Received:
				Chain of Custody:	1-L Amber
				Yes: X	500 Amber
				No:	16 oz glass
				Samples Stored:	8 oz glass
				Walk In: E4	VOA soil
				Hall:	250 EDB
				VOA: X	White plastic
				Reporting:	Red plastic
				Tier: II	Yellow plastic
				EDD:	Green plastic
				DOD:	VOA vial sets
					Other 1

1	Pb	18		
2	PAHs/Phthalates	19		
3		20		
4		21		
5		22		
6		23		
7		24		
8		25		
9		26		
10		27		
11		28		
12		29	Lab J:	I.D.
13		30	35	
14		31	36	
15		32	37	
16		33	38	
17		34	39	

Lab Codes	Sample ID	Test to be performed	Sample Date	Matrix
J9901863-01	Paper Composite	1,2	6/21/99	Paperboard

Composite Sheets Before Analyzing

Columbia Analytical Services inc.
An Employee-Owned Company

April 23, 1999

Service Request No. J9900719

Certification Numbers:

Florida DEP:	930298G
Florida HRS:	E82502; 82483
Massachusetts:	M-FL937
New Hampshire:	294
North Carolina:	527
South Carolina:	96021001
A2LA	0490-02

Barb Russell
Michigan Paperboard Co.
79 E Fountain St.
Battle Creek, MI 49017

RE: Project No.: March 1999 Baseline Composite
Project Name: RPTA Test Protocol

Dear Barb Russell:

Enclosed are the results of the samples(s) submitted to our laboratory on March 15, 1999. For your reference, these analyses have been assigned our service request number: J9900719.

All analyses were performed according to our laboratory's quality assurance program. All results are intended to be considered in the entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions.

Respectfully submitted,

Columbia Analytical Services, Inc.

Tom Kissinger
Project Chemist

TK/jg

8540 Baycenter Rd. ▪ Jacksonville, FL 32256 ▪ (904) 739-2277 ▪ Fax (904) 739-2011

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co
Project: RPTA Test Protocol
Sample Matrix: Paper Board

Service Request: J9900719
Date Collected: 3/12/99
Date Received: 3/15/99
Date Extracted: NA

Volatile Organic Compounds
EPA Method 8260A
Units mg/Kg (ppm)

		Sample Name	**Paper Composite**	**Method Blank**
		Lab Code	J9900719-01	J990319-MB
		Date Analyzed	3/20/99	3/19/99
Analyte	**MRL**			
Benzene	0 01		U	U
Bromobenzene	0 01		U	U
Bromochloromethane	0 01		U	U
Bromodichloromethane	0 01		U	U
Bromoform	0 01		U	U
Bromomethane	0 01		U	U
Carbon Tetrachloride	0 01		U	U
Chlorobenzene	0 01		U	U
Chloroethane	0 01		U	U
Chloroform	0 01		U	U
Chloromethane	0 01		U	U
2-Chlorotoluene	0 04		U	U
4-Chlorotoluene	0 04		U	U
1,2-Dibromo-3-chloropropane (DBCP)	0 04		U	U
Dibromochloromethane	0 01		U	U
1,2-Dibromoethane (EDB)	0 04		U	U
Dibromomethane	0 01		U	U
Dichlorodifluoromethane	0 01		U	U
1,1-Dichloroethane	0 01		U	U
1,2-Dichloroethane	0 01		U	U
1,1-Dichloroethene	0 01		U	U
cis-1,2-Dichloroethene	0 01		U	U
trans-1,2-Dichloroethene	0 01		U	U
1,2-Dichloropropane	0 01		U	U
cis-1,3-Dichloropropene	0 01		U	U
trans-1,3-Dichloropropene	0 01		U	U
Ethylbenzene	0 01		U	U
Isopropylbenzene (Cumene)	0 04		U	U
4-Isopropyltoluene (p-Cymene)	0 04		U	U
Methylene Chloride	0 1		U	U
n-Proplybenzene	0 04		U	U
Styrene	0 01		U	U
1,1,1,2-Tetrachloroethane	0 01		U	U
1,1,2,2-Tetrachloroethane	0 01		U	U
Tetrachloroethene (PCE)	0 01		U	U
Toluene	0 01		U	U
1,1,1-Trichloroethane (TCA)	0 01		U	U
1,1,2-Trichloroethane	0 01		U	U
Trichloroethene (TCE)	0 01		U	U
Trichlorofluoromethane (CFC 11)	0 01		U	U
1,2,3-Trichloropropane	0 01		U	U
1,2,4-Trimethylbenzene	0 04		U	U
Vinyl Chloride	0 01		U	U
Total Xylenes	0 01		U	U

U Not detected at or above the MRL

Approved By Tam D. Hissinger Date 4/23/99

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co.	**Service Request:**	J9900719
Project:	RPTA Test Protocol / March 1999 Baseline Co	**Date Collected:**	3/12/99
Sample Matrix:	Paperboard	**Date Received:**	3/15/99
		Date Extracted:	4/12/99

Semivolatile Organic Compounds
EPA Methods 3550/8270C
Units: mg/Kg (ppm)

Sample Name:	**Paper Composite**	**Method Blank**
Lab Code:	J9900719-01	J990412-MB
Date Analyzed:	4/19/99	4/19/99

Analyte	**MRL**		
Benzidine	0.5	U	U
Benzoic Acid	5	U	U
Benzyl alcohol	0.5	U	U
Biphenyl*	0.5	U	U
Bis(2-ethylhexyl) Phthalate	0.5	2.4	U
Butyl Benzyl Phthalate	0.5	1.8	U
Carbazole	0.5	U	U
4-Chloro-3-methylphenol	1	U	U
4-Chloroaniline	0.5	U	U
2-Chloronaphthalene	0.5	U	U
2-Chlorophenol	0.5	U	U
Di-n-butyl Phthalate	0.5	2.0	U
Di-n-octyl Phthalate	0.5	U	U
Dibenzofuran	0.5	U	U
1,2-Dichlorobenzene	0.5	U	U
1,3-Dichlorobenzene	0.5	U	U
1,4-Dichlorobenzene	0.5	U	U
3,3'-Dichlorobenzidine	1	U	U
2,4-Dichlorophenol	0.5	U	U
Diethyl Phthalate	0.5	U	U
Dimethyl Phthalate	0.5	U	U
2,4-Dimethylphenol	0.5	U	U
2-Methyl-4,6-dinitrophenol	1	U	U

* Searched for as a tentatively identified compound.
U Not detected at or above the MRL.

Approved By: Tam D. Ussinger Date: 4/23/99

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co.	**Service Request:**	J9900719
Project:	RPTA Test Protocol / March 1999 Baseline Co	**Date Collected:**	3/12/99
Sample Matrix:	Paperboard	**Date Received:**	3/15/99
		Date Extracted:	4/12/99

Semivolatile Organic Compounds
EPA Methods 3550/8270C
Units: mg/Kg (ppm)

Sample Name:	**Paper Composite**	**Method Blank**
Lab Code:	J9900719-01	J990412-MB
Date Analyzed:	4/19/99	4/19/99

Analyte	**MRL**		
2,4-Dinitrophenol	1	U	U
2,4-Dinitrotoluene	0.5	U	U
2,6-Dinitrotoluene	0.5	U	U
Hexachlorobenzene	0.5	U	U
Hexachlorobutadiene	0.5	U	U
Hexachlorocyclopentadiene	0.5	U	U
Hexachloroethane	0.5	U	U
Isophorone	0.5	U	U
1-Methylnaphthalene*	0.5	U	U
2-Methylnaphthalene	0.5	U	U
2-Methyphenol	0.5	U	U
3- & 4-Methyphenol	0.5	U	U
N-Nitrosodi-n-propylamine	0.5	U	U
N-Nitrosodimethylamine	0.5	U	U
N-Nitrosodiphenylamine	0.5	U	U
2-Nitroaniline	0.5	U	U
3-Nitroaniline	0.5	U	U
4-Nitroaniline	0.5	U	U
Nitrobenzene	0.5	U	U
2-Nitrophenol	0.5	U	U
4-Nitrophenol	1	U	U

*	Searched for as a tentatively identified compound.
U	Not detected at or above the MRL.

Approved By: Tom D. Lissinger Date: 4/23/99

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co.	**Service Request:**	J9900719
Project:	RPTA Test Protocol / March 1999 Baseline Co	**Date Collected:**	3/12/99
Sample Matrix:	Paperboard	**Date Received:**	3/15/99
		Date Extracted:	4/12/99

Semivolatile Organic Compounds
EPA Methods 3550/8270C
Units: mg/Kg (ppm)

	Sample Name:	**Paper Composite**	**Method Blank**
	Lab Code:	J9900719-01	J990412-MB
	Date Analyzed:	4/19/99	4/19/99
Analyte	**MRL**		
2, 2'-Oxybis(1-chloropropane)	1	U	U
Pentachlorophenol	1	U	U
Phenol	0.5	U	U
Pyridine	0.5	U	U
2,3,4,6-Tetrachlorophenol*	0.5	U	U
1,2,4-Trichlorobenzene	0.5	U	U
2,4,5-Trichlorophenol	0.5	U	U
2,4,6-Trichlorophenol	0.5	U	U
Bis(2-chloroethoxy)methane	0.5	U	U
Bis(2-chloroethyl) Ether	0.5	U	U

* Searched for as a tentatively identified compound.
U Not detected at or above the MRL.

Approved By: Tom D. Hissinger Date: 4/23/99

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co.	**Service Request:**	J9900719
Project:	RPTA Test Protocol / March 1999 Baseline Co	**Date Collected:**	3/12/99
Sample Matrix:	Paperboard	**Date Received:**	3/15/99
		Date Extracted:	4/12/99

Polynuclear Aromatic Hydrocarbons (PAHs)
EPA Methods 3550/8270C
Units: mg/Kg (ppm)

		Sample Name:	**Paper Composite**	**Method Blank**
		Lab Code:	J9900719-01	J990412-MB
		Date Analyzed:	4/14/99	4/14/99
Analyte	**MRL**			
Acenaphthene	0.01		U	U
Acenaphthylene	0.01		U	U
Anthracene	0.01		U	U
Benz(a)anthracene	0.01		U	U
Benzo(a)pyrene	0.01		U	U
Benzo(b)fluoranthene	0.01		U	U
Benzo(ghi)perylene	0.01		U	U
Benzo(k)fluoranthene	0.01		U	U
Chrysene	0.01		U	U
Dibenz(a,h)anthracene	0.01		U	U
Fluoranthene	0.01		U	U
Fluorene	0.01		U	U
Indeno(1,2,3-cd)pyrene	0.01		U	U
Naphthalene	0.01		0.02	U
Phenanthrene	0.01		0.02	U
Pyrene	0.01		0.02	U

U Not detected at or above the MRL.

Approved By: Tom D. Hissinger Date: 4/23/99

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: RPTA Test Protocol / March 1999 Baseline Composite
Sample Matrix: Paperboard

Service Request: 2
Date Collected: 3/12/99
Date Received: 3/15/99
Date Extracted: 4/12/99

Organochlorine Pesticides
EPA Method 3550/8081
Units: mg/Kg (ppm)

	Sample Name:	**Paper Composite**	**Method Blank**
	Lab Code:	J9900719-01	J990412-MB
	Date Analyzed:	4/14/99	4/14/99
Analyte	**MRL**		
Aldrin	0.001	U	U
Alpha-BHC	0.001	U	U
Beta-BHC	0.001	U	U
Delta-BHC	0.001	U	U
Gamma-BHC (Lindane)	0.001	U	U
Chlordane, alpha	0.005	U	U
Chlordane, gamma	0.005	U	U
4,4'-DDD	0.001	U	U
4,4'-DDE	0.001	U	U
4,4'-DDT	0.001	U	U
Dieldrin	0.001	U	U
Endosulfan I	0.001	U	U
Endosulfan II	0.001	U	U
Endosulfan Sulfate	0.001	U	U
Endrin	0.001	U	U
Endrin Ketone	0.001	U	U
Heptachlor	0.001	U	U
Heptachlor Epoxide	0.001	U	U
Methoxychlor	0.005	U	U
Mirex	0.005	U	U
Toxaphene	0.05	U	U

U Not detected at or above the MRL.

Approved By: Tom D. Hissinger Date: 4/23/99

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co.	**Service Request:**	J9900719
Project:	RPTA Test Protocol / March 1999 Baseline Composite	**Date Collected:**	3/12/99
Sample Matrix:	Paperboard	**Date Received:**	3/15/99
		Date Extracted:	4/12/99

Polychlorinated Biphenyls (PCBs)
EPA Method 3550/8082
Units: mg/Kg (ppm)

	Sample Name:	**Paper Composite**	**Method Blank**
	Lab Code:	J9900719-01	J990412-MB
	Date Analyzed:	4/14/99	4/14/99
Analyte	**MRL**		
PCBs: Aroclor 1016	0.05	U	U
Aroclor 1221	0.05	U	U
Aroclor 1232	0.05	U	U
Aroclor 1242	0.05	U	U
Aroclor 1248	0.05	U	U
Aroclor 1254	0.05	U	U
Aroclor 1260	0.05	U	U

U Not detected at or above the MRL.

Approved By: Jane D. Hissinger Date: 4/23/99

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co.	**Service Request:**	J9900719
Project:	RPTA Test Protocol / March 1999 Baseline Composite	**Date Collected:**	3/12/99
Sample Matrix:	Paperboard	**Date Received:**	3/15/99
		Date Extracted:	NA

Total Metals
Units: mg/Kg(ppm)
As Received Basis

		Sample Name:	**Paper Composite**	**Method Blank**
		Lab Code:	J9900719-01	J990316-MB
		Date Analyzed:	3/17-4/21/99	3/17-4/21/99
Analyte	**EPA Method**	**MRL**		
Antimony	7041	0.5	U	U
Arsenic	7060	0.5	U	U
Barium	6010	10	U	U
Beryllium	6010	10	U	U
Cadmium	6010	2	U	U
Chromium	6010	10	U	U
Copper	6010	10	U	U
Lead	7421	2	U	U
Manganese	6010	10	20.2	U
Mercury	7471	1	U	U
Nickel	6010	10	U	U
Selenium	6010	10	U	U
Silver	6010	10	U	U
Zinc	6010	10	31.2	U

U Not detected at or above the MRL.

Approved By: Tom D. Hissinger Date: 4/23/99

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Michigan Paperboard Co.	**Service Request:**	J9900719
Project:	RPTA Test Protocol / March 1999 Baseline Composit	**Date Collected:**	3/12/99
Sample Matrix:	Paper	**Date Received:**	3/15/99
		Date Extracted:	3/17/99

TCDD & TCDF
Units: pg/g (ppt)

Sample Name:	**Paper Composite**
Lab Code:	J9900719-01
Date Analyzed:	4/14/99

Analyte	**MRL**	**Result**
2,3,7,8-TCDD	1	U
2,3,7,8-TCDF	1	2.8

U Not detected at or above the MRL.

Approved By: Tam D. Kissinger Date: 4/23/99

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

Client: Michigan Paperboard Co. Work order: J9900719

Project: RPTA Test Protocol / March 1999 Baseline Composite

Cooler received on 3/15/99 and opened on 3/15/99 by PG

		Yes	No	N/A
1	Were custody seals on outside of cooler?	☐	☒	☐
	If yes, how many and where?			☒
	Were signature and date correct?	☐	☐	☒
2	Were custody papers properly filled out (ink, signed, etc....)?	☒	☐	☐
3	Did all bottles arrive in good condition (unbroken, etc....)?	☒	☐	☐
4	Were all bottle labels correct (analysis, preservation, etc....)?	☒	☐	☐
5	Did all bottle labels and tags agree with custody papers?	☒	☐	☐
6	Were correct bottles used for test indicated?	☒	☐	☐
7	Were VOA vials checked for absence of air bubbles, and noted?	☐	☐	☒
8	Temperature of cooler upon receipt	_____ Degrees C		

Explain any discrepancies: _____

		Yes	No
pH	Reagent		
12	NaOH		
2	HNO_3		
2	H_2SO_4		

Yes = all samples OK
No = Samples were preserved at lab as listed

Comments:

Sample I.D.	Reagent	Vol.

Columbia Analytical Services INC
An Employee Owned Company

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST

8540 Baycenter Rd • Jacksonville, FL 32256 • (904) 739-2277 • 800-695-7222 • FAX (904) 739-2011

DATE 3/8/99 PAGE 1 OF 1

PROJECT NAME RPTA TEST PROTOCOL
PROJECT # MARCH 1999 BASELINE COMPOSITE
COMPANY/ADDRESS MICHIGAN PAPERBOARD CO.
79 E. FOUNTAIN ST. BATTLE CRK, MI 49017
PHONE 616-963-4004
REPORT TO BARB RUSSELL
SAMPLER'S SIGNATURE JIM HOSKING

ANALYSIS REQUEST

RPTA – Focused Sampling [ ]
(Short List)

RPTA – Baseline Sampling [X]
(Comprehensive)

SAMPLE ID	DATE	TIME	REMARKS
MARCH 1999 BASELINE	3/8 - 3/12	varies	
COMPOSITE SAMPLE			

RELINQUISHED BY:
Signature: Jim Hosking
Printed Name: JIM HOSKING
Firm: MICHIGAN PAPERB.
Date/Time: 3/12/99

RECEIVED BY:
Signature: Paul Gunsaulus
Printed Name: Paul Gunsaulus
Firm: CAS
Date/Time: 3/15/99 1030

SPECIAL INSTRUCTIONS/COMMENTS

J9900719

INVOICE INFORMATION:
PO # 67925
Bill To BARB RUSSELL
MICHIGAN PAPERBOARD

SAMPLE RECEIPT:
Shipping VIA
Shipping to
Condition
Lab No

DISTRIBUTION WHITE - return to originator, YELLOW - lab, PINK - retained by originator

Columbia Analytical Services INC.
An Employee-Owned Company

Please Remit to: P.O. Box 1515
Tacoma, WA 98401-1515
(360) 577-7222 • Fax (360) 425-9096

T.I.N. 91-1342590

INVOICE

Work Order No. J9900719 / E-A13596
Customer No. 7270089

Invoice No. 706117
Date: 4/30/99

P.O. Number: 67925
Project No. March 1999 Baseline Composite*
Project Name: RPTA Test Protocol
Matrix: Paper Board
Report to: Barb Russell
Project Chemist: Tom Kissinger
Samples submitted on: 3/15/99

Attn: Accounts Payable
Michigan Paperboard Co.
79 E Fountain St.
Battle Creek, MI 49017

Item Code	Description	Quantity Ordered	Unit Price	Extended Price
200/7000 Series	Total Metals	1	$175.00	$175.00
8081	PCB and Pesticides	1	$175.00	$175.00
8270C	Semivolatile Organics	1	$380.00	$380.00
8260	Volatile Organics	1	$200.00	$200.00
Lab E	2,3,7,8 TCDD/TCDF	1	$825.00	$825.00

Amount Due $1,755.00

Terms: Net 30 days, 1.5% interest per month (18% per year) charge on past due accounts.

Columbia Analytical Services INC.
An Employee-Owned Company

April 23, 1999

Service Request No. J9900719

Certification Numbers:

Florida DEP:	930298G
Florida HRS:	E82502; 82483
Massachusetts:	M-FL937
New Hampshire:	294
North Carolina:	527
South Carolina:	96021001
A2LA	0490-02

Barb Russell
Michigan Paperboard Co.
79 E Fountain St.
Battle Creek, MI 49017

RE: Project No.: March 1999 Baseline Composite
Project Name: RPTA Test Protocol

Dear Barb Russell:

Enclosed are the results of the samples(s) submitted to our laboratory on March 15, 1999. For your reference, these analyses have been assigned our service request number: J9900719.

All analyses were performed according to our laboratory's quality assurance program. All results are intended to be considered in the entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions.

Respectfully submitted,

Columbia Analytical Services, Inc.

Tom Kissinger
Project Chemist

TK/jg

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: RPTA Test Protocol
Sample Matrix: Paper Board

Service Request: J9900719
Date Collected: 3/12/99
Date Received: 3/15/99
Date Extracted: NA

Volatile Organic Compounds
EPA Method 8260A
Units: mg/Kg (ppm)

		Sample Name:	**Paper Composite**	**Method Blank**
		Lab Code:	J9900719-01	J990319-MB
		Date Analyzed:	3/20/99	3/19/99
Analyte	**MRL**			
Benzene	0.01		U	U
Bromobenzene	0.01		U	U
Bromochloromethane	0.01		U	U
Bromodichloromethane	0.01		U	U
Bromoform	0.01		U	U
Bromomethane	0.01		U	U
Carbon Tetrachloride	0.01		U	U
Chlorobenzene	0.01		U	U
Chloroethane	0.01		U	U
Chloroform	0.01		U	U
Chloromethane	0.01		U	U
2-Chlorotoluene	0.04		U	U
4-Chlorotoluene	0.04		U	U
1,2-Dibromo-3-chloropropane (DBCP)	0.04		U	U
Dibromochloromethane	0.01		U	U
1,2-Dibromoethane (EDB)	0.04		U	U
Dibromomethane	0.01		U	U
Dichlorodifluoromethane	0.01		U	U
1,1-Dichloroethane	0.01		U	U
1,2-Dichloroethane	0.01		U	U
1,1-Dichloroethene	0.01		U	U
cis-1,2-Dichloroethene	0.01		U	U
trans-1,2-Dichloroethene	0.01		U	U
1,2-Dichloropropane	0.01		U	U
cis-1,3-Dichloropropene	0.01		U	U
trans-1,3-Dichloropropene	0.01		U	U
Ethylbenzene	0.01		U	U
Isopropylbenzene (Cumene)	0.04		U	U
4-Isopropyltoluene (p-Cymene)	0.04		U	U
Methylene Chloride	0.1		U	U
n-Proplybenzene	0.04		U	U
Styrene	0.01		U	U
1,1,1,2-Tetrachloroethane	0.01		U	U
1,1,2,2-Tetrachloroethane	0.01		U	U
Tetrachloroethene (PCE)	0.01		U	U
Toluene	0.01		U	U
1,1,1-Trichloroethane (TCA)	0.01		U	U
1,1,2-Trichloroethane	0.01		U	U
Trichloroethene (TCE)	0.01		U	U
Trichlorofluoromethane (CFC 11)	0.01		U	U
1,2,3-Trichloropropane	0.01		U	U
1,2,4-Trimethylbenzene	0.04		U	U
Vinyl Chloride	0.01		U	U
Total Xylenes	0.01		U	U

U Not detected at or above the MRL.

Approved By: Tam D. Hissinger Date: 4/23/99

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: RPTA Test Protocol / March 1999 Baseline Co
Sample Matrix: Paperboard

Service Request: J9900719
Date Collected: 3/12/99
Date Received: 3/15/99
Date Extracted: 4/12/99

Semivolatile Organic Compounds
EPA Methods 3550/8270C
Units: mg/Kg (ppm)

Sample Name:		**Paper Composite**	**Method Blank**
Lab Code:		J9900719-01	J990412-MB
Date Analyzed:		4/19/99	4/19/99
Analyte	**MRL**		
Benzidine	0.5	U	U
Benzoic Acid	5	U	U
Benzyl alcohol	0.5	U	U
Biphenyl*	0.5	U	U
Bis(2-ethylhexyl) Phthalate	0.5	2.4	U
Butyl Benzyl Phthalate	0.5	1.8	U
Carbazole	0.5	U	U
4-Chloro-3-methylphenol	1	U	U
4-Chloroaniline	0.5	U	U
2-Chloronaphthalene	0.5	U	U
2-Chlorophenol	0.5	U	U
Di-n-butyl Phthalate	0.5	2.0	U
Di-n-octyl Phthalate	0.5	U	U
Dibenzofuran	0.5	U	U
1,2-Dichlorobenzene	0.5	U	U
1,3-Dichlorobenzene	0.5	U	U
1,4-Dichlorobenzene	0.5	U	U
3,3'-Dichlorobenzidine	1	U	U
2,4-Dichlorophenol	0.5	U	U
Diethyl Phthalate	0.5	U	U
Dimethyl Phthalate	0.5	U	U
2,4-Dimethylphenol	0.5	U	U
2-Methyl-4,6-dinitrophenol	1	U	U

* Searched for as a tentatively identified compound.
U Not detected at or above the MRL.

Approved By: Tam D. Ussinger Date: 4/23/99

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: RPTA Test Protocol / March 1999 Baseline Co
Sample Matrix: Paperboard

Service Request: J9900719
Date Collected: 3/12/99
Date Received: 3/15/99
Date Extracted: 4/12/99

Semivolatile Organic Compounds
EPA Methods 3550/8270C
Units: mg/Kg (ppm)

Sample Name:	Paper Composite	Method Blank
Lab Code:	J9900719-01	J990412-MB
Date Analyzed:	4/19/99	4/19/99

Analyte	MRL		
2,4-Dinitrophenol	1	U	U
2,4-Dinitrotoluene	0.5	U	U
2,6-Dinitrotoluene	0.5	U	U
Hexachlorobenzene	0.5	U	U
Hexachlorobutadiene	0.5	U	U
Hexachlorocyclopentadiene	0.5	U	U
Hexachloroethane	0.5	U	U
Isophorone	0.5	U	U
1-Methylnaphthalene*	0.5	U	U
2-Methylnaphthalene	0.5	U	U
2-Methyphenol	0.5	U	U
3- & 4-Methyphenol	0.5	U	U
N-Nitrosodi-n-propylamine	0.5	U	U
N-Nitrosodimethylamine	0.5	U	U
N-Nitrosodiphenylamine	0.5	U	U
2-Nitroaniline	0.5	U	U
3-Nitroaniline	0.5	U	U
4-Nitroaniline	0.5	U	U
Nitrobenzene	0.5	U	U
2-Nitrophenol	0.5	U	U
4-Nitrophenol	1	U	U

* Searched for as a tentatively identified compound.
U Not detected at or above the MRL.

Approved By: Tom D. Lissinger Date: 4/23/99

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: RPTA Test Protocol / March 1999 Baseline Co
Sample Matrix: Paperboard

Service Request: J9900719
Date Collected: 3/12/99
Date Received: 3/15/99
Date Extracted: 4/12/99

Semivolatile Organic Compounds
EPA Methods 3550/8270C
Units: mg/Kg (ppm)

Sample Name:		**Paper Composite**	**Method Blank**
Lab Code:		J9900719-01	J990412-MB
Date Analyzed:		4/19/99	4/19/99
Analyte	**MRL**		
2, 2'-Oxybis(1-chloropropane)	1	U	U
Pentachlorophenol	1	U	U
Phenol	0.5	U	U
Pyridine	0.5	U	U
2,3,4,6-Tetrachlorophenol*	0.5	U	U
1,2,4-Trichlorobenzene	0.5	U	U
2,4,5-Trichlorophenol	0.5	U	U
2,4,6-Trichlorophenol	0.5	U	U
Bis(2-chloroethoxy)methane	0.5	U	U
Bis(2-chloroethyl) Ether	0.5	U	U

* Searched for as a tentatively identified compound.
U Not detected at or above the MRL.

Approved By: Tom D. Kissinger Date: 4/23/99

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: RPTA Test Protocol / March 1999 Baseline Co
Sample Matrix: Paperboard

Service Request: J9900719
Date Collected: 3/12/99
Date Received: 3/15/99
Date Extracted: 4/12/99

Polynuclear Aromatic Hydrocarbons (PAHs)
EPA Methods 3550/8270C
Units: mg/Kg (ppm)

Sample Name:		**Paper Composite**	**Method Blank**
Lab Code:		J9900719-01	J990412-MB
Date Analyzed:		4/14/99	4/14/99
Analyte	**MRL**		
Acenaphthene	0.01	U	U
Acenaphthylene	0.01	U	U
Anthracene	0.01	U	U
Benz(a)anthracene	0.01	U	U
Benzo(a)pyrene	0.01	U	U
Benzo(b)fluoranthene	0.01	U	U
Benzo(ghi)perylene	0.01	U	U
Benzo(k)fluoranthene	0.01	U	U
Chrysene	0.01	U	U
Dibenz(a,h)anthracene	0.01	U	U
Fluoranthene	0.01	U	U
Fluorene	0.01	U	U
Indeno(1,2,3-cd)pyrene	0.01	U	U
Naphthalene	0.01	0.02	U
Phenanthrene	0.01	0.02	U
Pyrene	0.01	0.02	U

U Not detected at or above the MRL.

Approved By: Tom D. Hissinger Date: 4/23/99

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: RPTA Test Protocol / March 1999 Baseline Composite
Sample Matrix: Paperboard

Service Request: 2
Date Collected: 3/12/99
Date Received: 3/15/99
Date Extracted: 4/12/99

Organochlorine Pesticides
EPA Method 3550/8081
Units: mg/Kg (ppm)

	Sample Name:	**Paper Composite**	**Method Blank**
	Lab Code:	J9900719-01	J990412-MB
	Date Analyzed:	4/14/99	4/14/99
Analyte	**MRL**		
Aldrin	0.001	U	U
Alpha-BHC	0.001	U	U
Beta-BHC	0.001	U	U
Delta-BHC	0.001	U	U
Gamma-BHC (Lindane)	0.001	U	U
Chlordane, alpha	0.005	U	U
Chlordane, gamma	0.005	U	U
4,4'-DDD	0.001	U	U
4,4'-DDE	0.001	U	U
4,4'-DDT	0.001	U	U
Dieldrin	0.001	U	U
Endosulfan I	0.001	U	U
Endosulfan II	0.001	U	U
Endosulfan Sulfate	0.001	U	U
Endrin	0.001	U	U
Endrin Ketone	0.001	U	U
Heptachlor	0.001	U	U
Heptachlor Epoxide	0.001	U	U
Methoxychlor	0.005	U	U
Mirex	0.005	U	U
Toxaphene	0.05	U	U

U Not detected at or above the MRL.

Approved By: Tom D. Hissinger Date: 4/23/99

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: RPTA Test Protocol / March 1999 Baseline Composite
Sample Matrix: Paperboard

Service Request: J9900719
Date Collected: 3/12/99
Date Received: 3/15/99
Date Extracted: 4/12/99

Polychlorinated Biphenyls (PCBs)
EPA Method 3550/8082
Units: mg/Kg (ppm)

	Sample Name:	**Paper Composite**	**Method Blank**
	Lab Code:	J9900719-01	J990412-MB
	Date Analyzed:	4/14/99	4/14/99
Analyte	**MRL**		
PCBs: Aroclor 1016	0.05	U	U
Aroclor 1221	0.05	U	U
Aroclor 1232	0.05	U	U
Aroclor 1242	0.05	U	U
Aroclor 1248	0.05	U	U
Aroclor 1254	0.05	U	U
Aroclor 1260	0.05	U	U

U Not detected at or above the MRL.

Approved By: Tom D. Kissinger Date: 4/23/99

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: RPTA Test Protocol / March 1999 Baseline Composite
Sample Matrix: Paperboard

Service Request: J9900719
Date Collected: 3/12/99
Date Received: 3/15/99
Date Extracted: NA

Total Metals
Units: mg/Kg(ppm)
As Received Basis

		Sample Name:	**Paper Composite**	**Method Blank**
		Lab Code:	J9900719-01	J990316-MB
		Date Analyzed:	3/17-4/21/99	3/17-4/21/99
Analyte	**EPA Method**	**MRL**		
Antimony	7041	0.5	U	U
Arsenic	7060	0.5	U	U
Barium	6010	10	U	U
Beryllium	6010	10	U	U
Cadmium	6010	2	U	U
Chromium	6010	10	U	U
Copper	6010	10	U	U
Lead	7421	2	U	U
Manganese	6010	10	20.2	U
Mercury	7471	1	U	U
Nickel	6010	10	U	U
Selenium	6010	10	U	U
Silver	6010	10	U	U
Zinc	6010	10	31.2	U

U Not detected at or above the MRL.

Approved By: Tom D. Hessinger Date: 4/23/99

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Michigan Paperboard Co.
Project: RPTA Test Protocol / March 1999 Baseline Composit
Sample Matrix: Paper

Service Request: J9900719
Date Collected: 3/12/99
Date Received: 3/15/99
Date Extracted: 3/17/99

TCDD & TCDF
Units: pg/g (ppt)

Sample Name:	**Paper Composite**
Lab Code:	J9900719-01
Date Analyzed:	4/14/99

Analyte	**MRL**	**Result**
2,3,7,8-TCDD	1	U
2,3,7,8-TCDF	1	2.8

U Not detected at or above the MRL.

Approved By: Tom D. Kissinger Date: 4/23/99

MICHIGAN PAPERBOARD - PROTOCOL WORKSHEET

PAPERMACHINE #2 **P.O. # 67925**

COLUMBIA ANALYTICAL SERVICES
8540 BAYCENTER ROAD
JACKSONVILLE, FLORDIA 32256
1-904-739-2277 FAX 1-904-739-2022

DATE	TIME	GRADE	REEL #	BASIS WGT.	
3/8/99	1:40 PM	16.0 MUP	227	63.7	JH/CB/KB
3/9/99	10:30 AM	18.0 MUP	254	71.3	JH/SC
3/10/99	10:16 AM	20.0 MUP	289	76.8	JH/KB
3/11/99	10:30 AM	17.0 MUP	318	69.0	SC/JH
3/12/99	10:32 AM	17.0 MUP	351	68.5	JH/EY

ACKNOWLEDGMENT OF RECEIPT OF SAMPLES

TO: Barb Russell

FROM: Tom Kissinger/Project Chemist
Columbia Analytical Services, Inc.

This is to inform you that the samples received on 3/15/99
for your project RPTA Test Protocol/March 1999 Baseline Composite
have been assigned CAS service request number J9900719

A copy of our CAS service request or intercompany service request is attached. If you have any questions regarding the status of this work, please call me at (904) 739-2277.

Thank you for your business.

Number of pages (including cover sheet): 2

Columbia Analytical Services, Inc.
8540 Baycenter Road
Jacksonville, FL 32256
(904) 739-2277
(904) 739-2011 fax

Service Request J9900719

Project Name:	RPTA Test Protocol	Reviewed by:	THT	Date Received:	3/15/99
Project Number	March 1999 Baseline Composite	Logged in by:	THT	Date Required:	4/19/99
Client Name:	Michigan Paperboard Co.	Rec'd by:	PG	Copies of SR to: VOC	1
Client Number:	--	Project Chemist:	Tom Kissinger	SOC	2
Report To:	Barb Russell	P.O. #:	67925	Metals	1
Address:	79 E Fountain St.			Gen Chem	1
	Battle Creek, MI 49017			Micro	
Phone:	616-963-4004				
Fax Number:	616-963-4425				

Special Instructions:

Sample Description:
Soil: ___
Water: ___
Other: X

Chain of Custody:
Yes: X
No: ___

Samples Stored:
Walk In: E3
Hall: ___
VOA: X

Reporting:
Tier: II
EDD: ___
DOD: ___

Bottles Received:
1-L Amber ___
500 Amber ___
16 oz glass ___
8 oz glass ___
VOA soil ___
250 EDB ___
White plastic ___
Red plastic ___
Yellow plastic ___
Green plastic ___
VOA vial sets ___
Other 2

1	Sb,As,Pb,Se,Hg,Ba,Be,Cd	18	
2	Cr,Cu,Mn,Ni,Ag,Zn	19	
3	8081 Pest & PCB	20	
4	8270C	21	
5	8260(Low Level)	22	
6		23	
7		24	
8		25	
9		26	
10		27	
11		28	
12		29	
13		30	
14		31	
15		32	
16		33	
17		34	

Lab J:		I.D.
35	2,3,7,8 TCDD/TCDF	E
36		
37		
38		
39		

Lab Codes	Sample ID	Test to be performed	Sample Date	Matrix
J9900719-01	Paper Composite	1-5,35	3/12/99	Paper Board

Composite Sheets Before Analyzing

FIELD CONTAINER COMPANY, L.P.
1500 Nicholas Blvd Elk Grove Village, IL 60007

FACSIMILE TRANSMISSION

From: Chris Blume, P.E.
Corporate Manager of Environmental Compliance
Telephone: (847) 952-2411
Fax: (847) 437-4987

To: Barb Russell

Company: MPC

Fax No.: 616-963-4425

Date: 4-28-99

No. Pages: 2 (Including this cover sheet)

Regarding: Board Testing Results

Comments:

Please call to discuss. NCASI has apparently addressed Furans (i.e., 2,3,7,8-TCDF) somehow -- but its apparently not addressed in the RPTA Protocol. May need to submit the retain samples for repeat analysis.

Chris

Michigan Paperboard Company
RPTA Chemical Testing Protocol
March 1999 Baseline Composite Sample
Detected Compounds

Average Basis Weight of Composite Sample (lbs/1,000 sq. ft.) = 69.9

Detected Compound	Detected Concentration (mg/kg)	Unadjusted Conservative Allowable Concentration in Food-contact Paperboard (mg/kg)	Basis Weight Adjusted Conservative Allowable Concentration in Food-contact Paperboard (mg/kg)
Bis (2-ethylhexyl) Phthalate	2.4	11.0	15.7
Butyl Benzyl Phthalate	1.8	288	412
Di-n-butyl Phthalate	2.0	1,460	2,090
Naphthalene	0.02	870	1,240
Phenanthrene	0.02	947	1,350
Pyrene	0.02	333	476
Manganese	20.2	346	495
Zinc	31.2	741	1,060
2,3,7,8-TCDF	~~0.0028~~ 0.0000028 = 2.8ppt.		

Notes:

The Unadjusted Conservative Allowable Concentrations in Food-contact Paperboard represent the most stringent standard (i.e., FDA or Cal Prop 65) addressed in the RPTA Chemical Testing Protocol (Table 2-1, February 17, 1998 edition), and are for all paperboard types (coated and uncoated) and for all food types. These unadjusted allowable concentrations assume an average basis weight of 100.

The Basis Weight Adjusted Conservative Allowable Concentrations in Food-contact Paperboard are the unadjusted allowable concentrations multiplied by the assumed average basis weight over the actual average basis weight of the sample (i.e., multiplied by 100/69.9).

THRESHOLD IN DIET IS PARTS PER TRILLION

MILK CARTON → 2 PPT - DIOXIN + FURANS
FDA 20 PPT - 2,3,7,8 TCDF

2800

NOT KNOWN CARCINOGEN - THRESHOLD OF REGULATION
0.5 PPB

ACTS 412

S D MYERS

THE TRANSFORMER CONSULTANTS

9/21/92

ATTN: DTEB903
WESTINGHOUSE ELECTRIC
P O BOX 700
DETROIT MI 48034

GENERATOR:
MICHIGAN PAPERBOARD CORP
79 EAST FOUNTAIN STREET
BATTLE CREEK MI 49017

The Askarel received at our facility on manifest DT111 was disposed of on 07/03/92.

Enclosed is a copy of the Compliance Certificate, signed by an official from the disposal facility, certifying proper disposal of your waste material.

Thank you for your confidence in S. D. Myers, Inc. We appreciate the opportunity to serve you.

If you have any questions or concerns, please call this department.

Sincerely,

David L. Belden

David L. Belden
Environmental Coordinator
CGT

180 South Avenue, Tallmadge, Ohio 44278 Phone: (216) 633-2666

LIST ITEMS DESTROYED LOG FROM S.D. MYERS INC.

Date: 9/21/92

SD Myers Item No.	Description Or I.D. #	Customer Number	Customer Name	Generator Name	Sales Order	Manifest No. In	Kilo-grams	Weight Gallons	Date Out of Serv.	Receipt Date	Date Out	Outgoing Manifest	Disposal Date	Disposal Method
926193	Askarel	0095560	WESTINGHOU	MICHIGAN PAPERBOARD CORP	26824	DT111		356Gal	5/16/92	5/18/92	6/11/92	92153	7/03/92	IN
Type: C	B 1						257		5/16/92	5/18/92	6/11/92	92153	7/03/92	
Type: C	B 2						257		5/16/92	5/18/92	6/11/92	92153	7/03/92	
Type: C	B 3						257		5/16/92	5/18/92	6/11/92	92153	7/03/92	
Type: C	B 4						257		5/16/92	5/18/92	6/11/92	92153	7/03/92	
Type: C	B 5						257		5/16/92	5/18/92	6/11/92	92153	7/03/92	
Type: C	B 6						257		5/16/92	5/18/92	6/11/92	92153	7/03/92	
Type: C	B 7						257		5/16/92	5/18/92	6/11/92	92153	7/03/92	
Type: C	B 8						257		5/16/92	5/18/92	6/11/92	92153	7/03/92	

INSTRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SEPARATE SHEET.

THIS DOCUMENT MUST BE USED FOR ALL MISSOURI-DESTINED SHIPMENTS.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
Division of Environmental Quality
Hazardous Waste Program
P.O. Box 176 Jefferson City, Missouri 65102
314-751-3176

HAZARDOUS WASTE MANIFEST

EMERGENCY RESPONSE
U.S. COAST GUARD
1-800-424-8802
CHEM TREC
1-800-424-9300
DEPT. OF NATURAL RESOURCES
314-634-2436

Please print or type (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No 2050-0039, Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MOD 983 796 994 — Manifest Document No. 92115 2

2. Page 1 of 1 — Information in the shaded areas is required by State law.

3. Generator's Name and Mailing Address: PO [illegible] 04 [illegible]

4. Generator's Phone ( ) [illegible]

A. Missouri Manifest Document Number: [redacted] 0037

B. G.S.I. (Gen. Site Address)

5. Transporter 1 Company Name: TRANSTOC ENVIRONMENTAL — 6. US EPA ID Number: 04D980[illegible]

C. MO. Trans. ID: H1624 EA

D. Transporter's Phone: 800 325-6899

7. Transporter 2 Company Name — 8. US EPA ID Number

E. MO. Trans. ID

F. Transporter's Phone

9. Designated Facility Name and Site Address: TIPTON ENVIRONMENTAL TECH, 1 MILE EAST HIWAY 50, TIPTON MO 65091 — 10. US EPA ID Number: MOD981[illegible]

G. State Facility's ID: HH1011

H. Facility's Phone: 816-433-3385

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. RQ, HAZARDOUS SUBSTANCE LIQUID, N.O.S., ORM-E DAIRY (PCB)	001	TT	19400	K	EPA WASTE CODE D011 / STATE M004
b.					EPA WASTE CODE / STATE
c.					EPA WASTE CODE / STATE
d.					EPA WASTE CODE / STATE

DISPOSED

J. Additional Descriptions for Materials Listed Above	K. HANDLING CODE (FACILITY USE ONLY) INTERIM	FINAL	COMMENTS
a. PCB OIL >50	S02	T03	
b.			
c.			
d.			

15. Special Handling Instructions and Additional Information

TRANSTOC PO# 67012 — PCB MANIFEST — EMER # 216-647-2354 LYNN FOITZ — TT# 308TA-T

TIPTON PO# 67011 — DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 4-1-92

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and applicable state regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method available to me that I can afford.

GENERATOR — Printed/Typed Name: DAVID L. BELDEN — Signature: [signature] — Month Day Year: 06 11 92

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials — Date

Printed/Typed Name: DAVID E. HOMER — Signature: [signature] — Month Day Year: 06 11 92

18. Transporter 2 Acknowledgement of Receipt of Materials — Date

Printed/Typed Name — Signature — Month Day Year

FACILITY

19. Discrepancy Indication Space: SC) this was IO not listed. EA

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. — Date

Printed/Typed Name: ELLEN ALLEE — Signature: [signature] — Month Day Year: 06 12 92

GENERATOR FINAL COPY — PART 2

THIS COPY MUST BE RETAINED BY THE GENERATOR AFTER ITS RETURN FROM

EPA Form 8700-22 (Rev. 8-91) MDNR-HWG 10

TIPTON ENVIRONMENTAL TECHNOLOGY INC
P.O. Box 849, Hwy. 50 East, Tipton, MO 65081 (816) 433-5585 Fax (816) 433-2261

June 15, 1992

ATTN: David L. Belden

S.D. Myers, Inc.
180 South Ave.
Tallmadge, OH 44278

Dear Mr. Belden:

Attached, please find your original, completely signed manifest #92153 dated 06-11-92 received at our facility on 06-12-92.

This indicates acceptance of material with changes of any discrepancies which were present, if any, by Tipton Environmental Services, Inc.

When we receive the certificate of disposal from the appropriate facility it will be forwarded to you, along with all shipment information.

If you have any questions, please feel free to contact our office, (816)433-5585.

Sincerely,

Ellen L. Allee

Ellen L. Allee
Records Supervisor
TET, Inc.

ELA/jlh

Enclosure

Division of Environmental Quality
Hazardous Waste Program
P.O. Box 176 Jefferson City, Missouri 65102
314-751-3176

WO# 6-12-92

HAZARDOUS WASTE MANIFEST

e print or type (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No 2050-0039, Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: OHD053576294 — Manifest Document No.: 92153

2. Page 1 of 1 — Information in the shaded areas is required by State law.

3. Generator's Name and Mailing Address: S. D. MYERS, INC. 180 SOUTH AVE. / TALLMADGE, OH 44278

4. Generator's Phone (216) 633-2666

A. Missouri Manifest Document Number: [redacted]0037

B. G.S.I. (Gen. Site Address):

5. Transporter 1 Company Name: TRANSTEC ENVIRONMENTAL

6. US EPA ID Number: OHD987012838

C. MO. Trans. ID: H1624 EA

D. Transporter's Phone: 800-325-6899

7. Transporter 2 Company Name:

8. US EPA ID Number:

E. MO. Trans. ID:

F. Transporter's Phone:

9. Designated Facility Name and Site Address: TIPTON ENVIRONMENTAL TECH, 1 MILE EAST HIWAY 50, TIPTON, MO 65081

10. US EPA ID Number: MOD981506611

G. State Facility's ID: HH1011

H. Facility's Phone: 816-433-5585

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers Number	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. RQ, HAZARDOUS SUBSTANCE LIQUID, N.O.S., ORM-E, NA9188 (PCB's)	001	TT	19000	K	EPA WASTE CODE: NONE; STATE: M004
b.					EPA WASTE CODE: ; STATE:
c.					EPA WASTE CODE: ; STATE:
d.					EPA WASTE CODE: ; STATE:

J. Additional Descriptions for Materials Listed Above	K. HANDLING CODE (FACILITY USE ONLY) INTERIM	FINAL	COMMENTS
a. PCB OIL >500	a. S02	T03	
b.	b.		
c.	c.		
d.	d.		

15. Special Handling Instructions and Additional Information

TRANSTEC PO# 67012 — PCB MANIFEST — EMR #216-945-2554 LYNN FRITZ — TT# 30871-T

TIPTON PO# 67011 — DATE OF REMOVAL FROM SERVICE FOR DISPOSAL 1-1-92

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and applicable state regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method available to me that I can afford.

Printed/Typed Name: DAVID L. BELDEN — Signature: David L. Belden — Month Day Year: 06 11 92

17. Transporter 1 Acknowledgement of Receipt of Materials — Date

Printed/Typed Name: DAVID E. HOMER — Signature: David E. Homer — Month Day Year: 06 11 92

18. Transporter 2 Acknowledgement of Receipt of Materials — Date

Printed/Typed Name: — Signature: — Month Day Year:

19. Discrepancy Indication Space

5c) no trans ID not listed. EA

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. — Date

Printed/Typed Name: ELLEN ALLEE — Signature: Ellen Allee — Month Day Year: 06 12 92

MISSOURI DNR FINAL COPY — PART 1

THIS COPY MUST BE SENT BACK TO THE GENERATOR BY THE DESIGNATED

A Form 8700-22 (Rev 8-91) MDNR-HWG 10

Annual Document Log & Work Order
Tipton Environmental Technology, Inc.
One Mile E. Hwy. 50, P.O. Box 849
Tipton, MO 65081
EPA#: MOD981506611

Generator: S.D. Myers, Inc.; Tallmadge, OH
Generator US EPA ID#: OHD053576294

01/01/92 to 12/31/92

Work Order & Unique ID	Regulatory Description	Description	Mnft. #	Date of RFS for disposal	Date Rec'd	Weight Incoming	Weight Outgoing	Outgoing Mnft. #	Transport Date	Disposer Name	Disposal Date
298	Bulk	PCB Oil >500	92153	01-01-92	06-12-92	19967.0					
Bulk							11526.0	92174	06-15-92	Rollins Env Ser (TX)	07-03-92
							8441.0	92175	06-17-92	Rollins Env Ser (TX)	06-30-92
					TOTAL	19967.0	19967.0				

TEXAS WATER COMMISSION
P.O. Box 13087, Capitol Station
Austin, Texas 78711-3087

E. T., INC.

JUN 22 1992

Please print or type (Form designed for use on elite (12-pitch) typewriter)

Form approved. OMB No 2050-0039 expires 09-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. M O D 9 8 1 5 0 6 6 1 1 Manifest Document No. 9 2 1 7 1 4

2. Page 1 of 2

Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Tipton Environmental Technology, Inc.
1 Mile East Highway 50
Tipton, MO 65081 ATTN: Kent J. Moon
4. Generator's Phone (816) 433-5585 (24 hour emergency number)

A. State Manifest Document Number 00264753

B. State Generator's ID 99929

5. Transporter 1 Company Name: Custom Environmental Transport
6. US EPA ID Number: D E D 9 8 0 9 1 8 8 5 8

C. State Transporter's ID 40756

D. Transporter's Phone 713-930-4500

7. Transporter 2 Company Name
8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Rollins Environmental Services (TX), Inc.
2027 Battleground Road
Deer Park, TX 77536
10. US EPA ID Number: T X D 0 5 5 1 4 1 3 7 8

G. State Facility's ID 50089

H. Facility's Phone 713-930-2300

11A HM	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
	a. RQ Hazardous Substance Liquid N.O.S. ORME NA 9188 (Polychlorinated Biphenyls)	1	T.T	21038	K	M004 118370
	b.					
	c.					
	d.					

J. Additional Descriptions for Materials Listed Above
11A. HO-43605-38 PCB Oil > 500

K. Handling Codes for Wastes Listed Above
T06

15. Special Handling Instructions and Additional Information
PCB MANIFEST
SEE ATTACHED CONTINUATION SHEET 11a. PCB2
FOR ADDITIONAL REQUIRED INFORMATION

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR

Printed/Typed Name: James S. Sidebottom
Signature: James S. Sidebottom
Month 06 Day 15 Year 92

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DAVID L LONG
Signature
Date: Month 06 Day 15 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Red (TX)
Printed/Typed Name: L. JEPSEN
Signature: L. Jepsen
Date: Month 06 Day 16 Year 92

TWC 2311 Rev. 01 89

White - original Pink-TSD Facility Yellow-Transporter Green-Generator's first copy

CONTINUATION SHEET FOR LIQUID OR SOLID CONTENTS

PAGE 2 OF 2
MANIFEST # 92174 / 264 753

ENERATOR	WORK ORDER	UNIQUE IDENTIFICATION NUMBER	DATE OF REMOVAL FROM SERVICE FOR DISPOSAL	TYPE OF PCB WASTE	KG	HO#	TX#	MO WASTE # EPA WASTE
nison	283	Bulk	6-2-92	PCB Oil >500	760	43605-38	118370	PCB-2 M004
FNSR	275	↓	5-19-92	↓	8752	↓	↓	↓
D Myers	298	↓	1-1-92	↓	11,526	↓	↓	↓

TOTAL KG 21,038

DATE 6-15-92

SIGNATURE [illegible]

PROGRAM-ID: PTR1722C ROLLINS ENVIRONMENTAL SERVICES (TX) INC
RUN DATE : 7/10/92 CERTIFICATE OF DISPOSAL
RUN TIME : 7:37 AM PAGE: 1

Certificate of Disposal Name and Address	Stream Number	Order Number	Manifest Number	Received Date	Final Disposal
	043605	144158	DU00264753	06/16/92	07/03/92

INC.

92174

JUL 14 1992

TIPTON, MO

TIPTON ENVIRONMENTAL TECHNOLOG
1 MILE E HWY 50
TIPTON MO 65081
Attn: KENT J. MOON

Inventory Cntrl Nbr	Customer's Unique Serial Number	CONTAINER Type	CONTAINER Contents	Prod Code	SHP TO	Disposal Mthd	Disposal Date
000144158		GAL	LIQUID	38		I	07/03/92

Total Containers : 1

This completes the Certificates of Destruction per Manifest Number DU00264753.

Disposal Methods :	
	'I' - Waste that was incinerated.
	'L' - Waste that was landfilled.
Disposal Facility :	ROLLINS ENVIRONMENTAL SERVICES (TX) INC
(Incinerated Waste)	PO BOX 609
	DEER PARK TX 77536
EPA ID:	TXD055141378

Under civil and criminal penalties of law for making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Please call (713) 930-2317 if there are any questions concerning the information on this Certificate of Disposal.

Authorized Agent
ROLLINS ENVIRONMENTAL SERVICES (TX) INC

TEXAS WATER COMMISSION
P.O. Box 13087, Capitol Station
Austin, Texas 78711-3087

T. E. T., INC.

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) JUN 06 1992 Form approved. OMB No. 2050-0039, expires 09-30-9

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. M O D 9 8 1 5 0 6 6 1 1 | Manifest Document No. 22123 TIPTON MO | 2. Page 1 of 2 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Tipton Environmental Technology, Inc.
1 Mile East Highway 50
Tipton, MO 65081 ATTN: Kent J. Moon
4. Generator's Phone (816) 433-5585 (24 hour emergency number)

A. State Manifest Document Number 00264755
B. State Generator's ID 99929

5. Transporter 1 Company Name: Custom Environmental Transport
6. US EPA ID Number: D E D 9 8 0 9 1 8 8 5 8
C. State Transporter's ID 40756
D. Transporter's Phone 713-930-4500

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Rollins Environmental Services (TX), Inc.
2027 Battleground Road
Deer Park, TX 77536
10. US EPA ID Number: T X D 0 5 5 1 4 1 3 7 8
G. State Facility's ID 50089
H. Facility's Phone 713-930-2300

11A. HM	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
	a. RQ Hazardous Substnace Liquid N.O.S. ORM-E NA 9188 (Polychlorinated Biphenyls)	1	T T	2 1 6 7 3	K	M004 118370
	b.					
	c.					
	d.					

J. Additional Descriptions for Materials Listed Above
11A. HO-43605-38 PCB Oil >500

K. Handling Codes for Wastes Listed Above
T06

15. Special Handling Instructions and Additional Information
PCB MANIFEST 11A. PBC2
SEE ATTACHED CONTINUATION SHEET
FOR ADDITIONAL REQUIRED INFORMATION

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations.
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GENERATOR

Printed/Typed Name: Kent J. Moon | Signature: Kent J Moon | Month Day Year: 0 6 1 7 9 2

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials | Date
Printed/Typed Name: R. Thomas | Signature: R. Thomas | Month Day Year: 06 17 92

18. Transporter 2 Acknowledgement of Receipt of Materials | Date
Printed/Typed Name | Signature | Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Rev (TX) | Date
Printed/Typed Name: L. JEPSEN | Signature: L. Jepsen | Month Day Year: 6 18 92

TWC 0311 Rev. 01 01 89 White - original Pink-TSD Facility Yellow-Transporter Green-Generator's first copy

PAGE 1 OF 1
MANIFEST # 92175/264755

ENERATOR	WORK ORDER	UNIQUE IDENTIF-ICATION NUMBER	DATE OF RE-MOVAL FROM SERVICE FOR DISPOSAL	TYPE OF PCB WASTE	KG	BO#	TX#	MO WASTE EPA WAST
SD MEYER	298	BULK	1-1-92	BULK PCB OIL >500	8441	43605-38	118370	MOD4 PCB 2
UNISON	299	↓	1-23-92	↓	13232	↓	↓	↓

TOTAL KG 21673 KGS

DATE 6-17-92

SIGNATURE [illegible]

PROGRAM-ID: PTR1722C ROLLINS ENVIRONMENTAL SERVICES (TX) INC
RUN DATE : 7/10/92 CERTIFICATE OF DISPOSAL
RUN TIME : 7:37 AM PAGE: 1

Certificate of Disposal Name and Address	Stream Number	Order Number	Manifest Number	Received Date	Final Disposal
	043605	144160	DU00264755	06/18/92	06/30/92

T. E. T. INC. 92/75
JUL 15 1992
TIPTON, MO

TIPTON ENVIRONMENTAL TECHNOLOGY INC
1 MILE E HWY 50
TIPTON MO 65081
Attn: KENT J. MOON

Inventory Cntrl Nbr	Customer's Unique Serial Number	CONTAINER Type	CONTAINER Contents	Prod Code	SHP TO	Disposal Mthd	Disposal Date
000144160		GAL	LIQUID	38		I	06/30/92

Total Containers : 1

This completes the Certificates of Destruction per Manifest Number DU00264755.

Disposal Methods :	
	'I' - Waste that was incinerated.
	'L' - Waste that was landfilled.
Disposal Facility :	ROLLINS ENVIRONMENTAL SERVICES (TX) INC
(Incinerated Waste)	PO BOX 609
	DEER PARK TX 77536
EPA ID:	TXD055141378

Under civil and criminal penalties of law for making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Please call (713) 930-2317 if there are any questions concerning the information on this Certificate of Disposal.

Authorized Agent
ROLLINS ENVIRONMENTAL SERVICES (TX) INC

MAY 13 1987

Westinghouse
Electric Corporation

16750 Chicago Avenue
Lansing Illinois 60438
(312) 895 7721

May 11, 1987

Wesco
3443 Gembrit Circle
Kalmazoo, MI 49001

Re: Destruction Certificate
Your P.O. # DS3250-861215
Our Job # DTE-S388

Gentlemen:

Enclosed please find the Certificate of Destruction certifying that all PCB materials picked up at Michigan Paper Board on Manifest Number 2825M have been properly destroyed.

The original of the Certificate, that is attached, should be forwarded to your customer as soon as possible.

If you have any questions, please contact me at (312) 895-7721.

Very truly yours,

WESTINGHOUSE ELECTRIC CORPORATION

Ann Benge

Ann Benge
Administrator
Great Lakes Zone

AB:dk
enclosure

cc: Job File
Bob Braun - DTE OC Mgr.

NATIONAL ELECTRIC INC.

21400 Hamburg Ave., P O Box 820, Lakeville MN 55044 (612) 469-3475
Highway 169 North, P O Box 935, Coffeyville KS 67337 (316) 251-6380

№ 5334

DATE: March 4, 1987

EPA ID # MND980791321
KSD980964993

Certificate of Destruction

THIS IS TO CERTIFY THAT THE HAZARDOUS WASTE MANIFESTED TO **NATIONAL ELECTRIC, INC.** ON DOCUMENT # 2825M WAS DESTROYED IN ACCORDANCE WITH 40 CFR 761 AS OF 02/27/87

NATIONAL ELECTRIC, INC.
LAKEVILLE, MN · COFFEYVILLE, KS

GENERATOR Michigan Paper Board

ADDRESS 79 East Fountain St.

Battle Creek, MI 49017

NATIONAL ELECTRIC, INC.

BY Judy Noble
PCB

TITLE Document Administrator

SIGNATURE Judy Noble

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No. 2050-0039. Expires 9-30-88

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: K S D 9 8 0 9 6 4 9 9 3
Manifest Document No.: C 3 4 9 9

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
National Electric, Inc.
P.O. Box 935 - Hwy 169 N.
Coffeyville, KS 67337

4. Generator's Phone (316) 251-6380

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: National Electric, Inc.

6. US EPA ID Number: M N D 9 8 0 7 9 1 3 2 1

C. State Transporter's ID

D. Transporter's Phone: 612-469-3475

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Pyrochem
P.O. Box 907
Coffeyville, KS 67337

10. US EPA ID Number: K S D 9 8 1 5 0 6 0 2 5

G. State Facility's ID

H. Facility's Phone: 316-251-4782

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.		10/4.54 Waste Polychlorinated Biphenyls-ORM-E UN2315 RQ	01	TT	2,633	G	
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
a. askarel

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Includes Manifest #'s: 2711B, 2810L, 2825M, 2978H, 40473, D1873, E2386

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Carol Lundy
Signature: Carol Lundy
Month Day Year: 02 04 87

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: CHRIS LOGELEN
Signature: Chris Logelen
Month Day Year: 2 04 87

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

FACILITY

19. Discrepancy Indication Space
Received 2629 gallons. DP.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: GREG DOTY
Signature: Greg Doty
Month Day Ye: 2 4 8

Style F15REV-6 Labelmaster, Div. of American Labelmark Co. Inc. 60646

EPA Form 8700-22 (Rev. 9/86) Previous editions are obsolete.

Westinghouse
Electric Corporation

24700 W Eleven Mile Road
Box 700
Southfield Michigan 48037
(313) 357-7343

July 8, 1991

Michigan Paperboard Corporation
79 E. Fountain Street
Battle Creek, Michigan 49017

Attention: Don Royster

Subject: Westinghouse Job #DTEB-411

Dear Mr. Royster:

Attached please find Manifest Document #DT084 certifying that all the materials listed were received at the PCB disposal facility on 5/15/91 and the corresponding Certificate of Destruction #014325-1 shows material destruction on 5/28/91.

You may want to file these documents behind Tab 4 of the final report binder.

If you have any questions, please call.

Thank you,

Holly Blossom

Holly Blossom
Business Coordinator
(313)357-7347

HB/taa
Attachment

DNR

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

Emergency Phone No.: Chemtrec 1-800-424-9300

Please print or type.

DO NOT WRITE IN THIS SPACE

ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

1969

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Form Approved. OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. M I D 9 8 1 0 0 0 3 5 9 — Manifest Document No. D E U 8 4

2. Page 1 of 3

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Michigan Paperboard Corporation
79 E. Fountain Street
Battle Creek, MI 49017

A. State Manifest Document Number MI 2188390

B. State Generator's ID

4. Generator's Phone (616) 963-4004

5. Transporter 1 Company Name: S D Myers

6. US EPA ID Number: O H D 0 5 3 5 7 6 2 9 4

C. State Transporter's ID

D. Transporter's Phone (216)633-2666

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
S D Myers
180 South Avenue
Tallmadge, Ohio 44278

10. US EPA ID Number: O H D 0 5 3 5 7 6 2 9 4

G. State Facility's ID

H. Facility's Phone (216)633-2666

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	RQ Waste Hazardous Substance, Liquid, N.O.S., ORM-E, NA9188 (Polychlorinated Biphenyls)	008	DM	Est. 02285	K	PCB2	
b.	RQ Waste Hazardous Substance, Solid, N.O.S., ORM-E, NA9188 (Polychlorinated Biphenyls)	001	CM	Est. 03461	K	PCB1	
c.	RQ Waste Hazardous Substance, Solid, N.O.S., ORM-E, NA9188 (Polychlorinated Biphenyls)	001	DM	Est. 00068	K	PCB2	
d.							

J. Additional Descriptions for Materials Listed Above
A. Drums of Inerteen
B. Transformer Drained - Serial #YBR-93912
C. Drum of Debris Including H.V. Switch

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information SD Myers to send receipted manifest and invoice to: Westinghouse ESD, 24700 W. Eleven Mile, Southfield, MI 48034 (W) Job #DTEB411-02

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR — Printed/Typed Name: JACK H. CRABTREE — Signature — Date (Month Day Year): 05 14 91

TRANSPORTER — 17. Transporter 1 Acknowledgement of Receipt of Materials — Printed/Typed Name: Larry G Wenn — Signature — Date (Month Day Year): 05 14 91

18. Transporter 2 Acknowledgement or Receipt of Materials — Printed/Typed Name — Signature — Date (Month Day Year)

FACILITY — 19. Discrepancy Indication Space
13.A. 3769 Kg. 13.B 2133 Kg 13.C. 63 Kg.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: DIANA L. JACKSON — Signature — Date (Month Day Year): 05 15 91

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)

PR 5110 Rev. 4/9

TSDF COPY

ACTS 412

SD MYERS
THE TRANSFORMER CONSULTANTS

CERTIFICATE OF DESTRUCTION

S.D. Myers Inc. 180 South Ave Tallmadge, Ohio 44278 Phone - 216-633-2666

Document # - 014325 - 1
EPA ID# - D053576294
Date - 7/02/91
P.O. Number- DTEB-411-02

This document is to certify that S.D. MYERS, INC. has completed the disposal of your transformer by utilizing our RESOURCE RECOVERY PROCESS.

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C.2615). I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company offical having supervisory responsibility for the persons who, acting under my direct instruction, made the verificaton that this information is true, accurate, and complete.

Generator:	80130	WESTINGHOUSE	Generator:	MICHIGAN PAPERBOARD CORP.	
Owner:		P O BOX 700	Owner:	79 E. FOUNTAIN ST.	
Customer:		SOUTHFIELD MI	Customer:	BATTLE CREEK MI 49017	
		313/357-7348		963-4004	

R-No.	Serial Number	Cust Ref No.	WT in Kg.	PPM	Liq	Incoming Manifest	Date Out of Service	Date Destroyed
0014462	YBR93912		3,799	PURE	Y	DT084	05/14/91	05/28/91

Audited By: Sheree Butcher
Sheree Butcher
Contract Coordinator

Approved By: D.

The Disposition of Liquid is per attached detailed description sheet.

Don - Sorry the Cert. of Dest. got dragged in the Xerox.

Holly Blossom

RR_100 RESOURCE RECOVERY PRINTED 7/01/91

********** CUST 80130 WESTINGHOUSE
* R 14462 *
****
P O BOX 700
SOUTHFIELD MI 48034
313/357-7348

OWNER: MICHIGAN PAPERBOARD CORP.
79 E. FOUNTAIN ST.
BATTLE CREEK MI 49017
616-963-4004

SALES ORDER NO. 1-4325
INCOMING MANIFEST- DT084
CERTIFICATE OF DESTRUCTION R-4325

MATERIAL ALUMINUM
AROCLOR- ASKAREL
PPM- PCB

WT- 8,375 LBS HEIGHT 107
GAL 341 WIDTH 117
KVA 1860 LENGTH 82

MFG WESTINGHOUSE
SERIAL YBR93912

DATE OUT OF SERVICE 5/14/91
DATE RECEIVED 5/15/91

TRANSFORMER COMPONENT	METHOD OF DESTRUCTION	DATE CLEANED	CERTIFICATE DESTRUCTION	WEIGHT	ug/100 SQ. CM.	SHIP DATE	OUTGOING MANIFEST	CONTAINER
CARCASS	RR	5/23/91		2770	4.0			
STR/STEEL	RR	5/23/91		1055	4.0			
BUSHINGS	RR	5/23/91		313	4.0			
LAMINATION		5/22/91		2900	3.3			
COILS	RR	5/28/91		864	.1			
WOOD/PAPER	IN			409		6/03/91	91125	X- 915660
WOOD/PAPER	IN					6/03/91	91125	X- 915674
WOOD/PAPER	IN					6/03/91	91125	X- 915673
WOOD/PAPER	IN					6/03/91	91125	X- 915675
LIQUID	IN							916191
LIQUID/RESIDUAL	IN			64				
			TOTAL WT	8,375				

APPROVED
BY MB 7-1-91 DATE

ACTS 412

SD MYERS

THE TRANSFORMER CONSULTANTS

CERTIFICATE OF DESTRUCTION

S.D. Myers Inc. 180 South Ave Tallmadge, Ohio 44278 Phone - 216-633-2666

Document # - 014325 - 1
EPA ID# - D053576294
Date - 7/02/91
P.O. Number- DTEB-411-02

This document is to certify that S.D. MYERS, INC. has completed the disposal of your transformer by utilizing our RESOURCE RECOVERY PROCESS.

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C.2615). I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company offical having supervisory responsibility for the persons who, acting under my direct instruction, made the verificaton that this information is true, accurate, and complete.

Generator:	80130	WESTINGHOUSE	Generator:	MICHIGAN PAPERBOARD CORP.	
Owner:		P O BOX 700	Owner:	79 E. FOUNTAIN ST.	
Customer:		SOUTHFIELD MI	Customer:	BATTLE CREEK	MI 49017
		313/357-7348		963-4004	

R-No.	Serial Number	Cust Ref No.	WT in Kg.	PPM	Liq	Incoming Manifest	Date Out of Service	Date Destroyed
0014462	YBR93912		3,799	PURE	Y	DT084	05/14/91	05/28/91

Audited By: Sheree Butcher
Contract Coordinator

Approved By:

The Disposition of Liquid is per attached detailed description sheet.

********** CUST 80130 WESTINGHOUSE
* R 14462 *
****
P O BOX 700
SOUTHFIELD MI 48034
313/357-7348

OWNER: MICHIGAN PAPERBOARD CORP.
79 E. FOUNTAIN ST.
BATTLE CREEK MI 49017
616-963-4004

SALES ORDER NO. 1-4325
INCOMING MANIFEST- DT084
CERTIFICATE OF DESTRUCTION R-432

MFG WESTINGHOUSE
SERIAL YBR93912

DATE OUT OF SERVICE 5/14/91
DATE RECEIVED 5/15/91

MATERIAL ALUMINUM
AROCLOR- ASKAREL
PPM- PCB

WT- 8,375 LBS
GAL 341
KVA 1860

HEIGHT 107
WIDTH 117
LENGTH 82

TRANSFORMER COMPONENT	METHOD OF DESTRUCTION	DATE CLEANED	CERTIFICATE DESTRUCTION	WEIGHT	ug/100 SQ. CM.	SHIP DATE	OUTGOING MANIFEST	CONTAINER
CARCASS	RR	5/23/91		2770	4.0			
STR/STEEL	RR	5/23/91		1055	4.0			
BUSHINGS	RR	5/23/91		313	4.0			
LAMINATION		5/22/91		2900	3.3			
COILS	RR	5/28/91		864	.1			
WOOD/PAPER	IN			409		6/03/91	91125	X- 915660
WOOD/PAPER	IN					6/03/91	91125	X- 915674
WOOD/PAPER	IN					6/03/91	91125	X- 915673
WOOD/PAPER	IN					6/03/91	91125	X- 915675
LIQUID	IN							916191
LIQUID/RESIDUAL	IN			64				
			TOTAL WT	8,375				

MB 7-1-91