APPENDIX C

ANALYTICAL LABORATORY REPORTS

FREE-COL LABORATORIES, INC.

P.O. BOX 557,COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

5815 AIRPORT ROAD
ROANOKE, VIRGINIA 24012
PHONE: (703) 265-2544
FAX: (703) 362-1663

09/26/95

TO:

DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094

P.O. # HH48888

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER	SAMPLE ID :	MW-1 09/19/95	MW-2 09/19/95	MW-3 09/19/95	MW-4 09/19/95
	LAB ID	50920412	50920413	50920414	50920415
	DATE RECEIVED:	09/20/95	09/20/95	09/20/95	09/20/95
VOLATILE COMPOUNDS	UNITS = MG/L				
CHLOROMETHANE		<1.0 D	<1.0 D	<1.0 D	<1.0 D
BROMOMETHANE		<1.0 D	<1.0 D	<1.0 D	<1.0 D
VINYL CHLORIDE		<1.0 D	3.5	1.1	<1.0 D
CHLOROETHANE		<1.0 D	<1.0 D	<1.0 D	<1.0 D
METHYLENE CHLORIDE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
ACETONE		<10 D	<10 D	<10 D	<10 D
CARBON DISULFIDE		<0.5 D	<0.5 D	<0.05 D	<0.5 D
1,1,-DICHLOROETHENE		<0.5 D	<0.5 D	<0.05 D	<0.5 D
1,1,-DICHLOROETHANE		<0.5 D	<0.5 D	<0.05 D	<0.5 D
1,2-DICHLORO***		11	93	160	170
CHLOROFORM		<0.5 D	<0.5 D	<0.5 D	<0.5 D
1,2-DICHLOROETHANE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
2-BUTANONE		<10 D	<10 D	<10 D	<0.5 D
1,1,1-TRICHLOROETHA*		<0.5 D	<0.5 D	<0.5 D	<0.5 D
CARBON TETRACHLORIDE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
VINYL ACETATE		<5.0 D	<5.0 D	<5.0 D	<5.0 D
BROMODICHLOROMETHANE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
1,1,2,2-TETRACHLORO*		<0.5 D	<0.5 D	<0.5 D	<0.5 D
1,2-DICHLOROPROPANE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
TRANS-1,3-DICHLOROP*		<0.5 D	<0.5 D	<0.5 D	<0.5 D
TRICHLOROETHENE		6,500	590	0.6	0.6
DIBROMOCHLOROMETHANE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
1,1,2-TRICHLOROETHA*		<0.5 D	<0.5 D	<0.5 D	<0.5 D
BENZENE		<0.5 D	<0.5 D	2.7	2.7
CIS-1,3-DICHLOROPRO*		<0.5 D	<0.5 D	<0.5 D	<0.5 D

*Some of the above names have been abbreviated. Please reference the enclosed list for their complete names.

FREE-COL LABORATORIES, INC.

P.O. BOX 557,COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

5815 AIRPORT ROAD
ROANOKE, VIRGINIA 24012
PHONE: (703) 265-2544
FAX: (703) 362-1663

09/26/95

TO:

DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094

P.O. # HH48888

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER	SAMPLE ID / LAB ID / DATE RECEIVED:	MW-1 09/19/95 50920412 09/20/95	MW-2 09/19/95 50920413 09/20/95	MW-3 09/19/95 50920414 09/20/95	MW-4 09/19/95 50920415 09/20/95
VOLATILE COMPOUNDS (Cont.)	UNITS = MG/L				
2-CHLOR* VINYL ETHER		<1.0 D	<1.0 D	<1.0 D	<1.0 D
BROMOFORM		<0.5 D	<0.5 D	<0.5 D	<0.5 D
2-HEXANONE		<5.0 D	<5.0 D	<5.0 D	<5.0 D
4-METHYL-2-PENTANONE		<5.0 D	<5.0 D	<5.0 D	<5.0 D
TETRACHLOROETHENE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
TOLUENE		<0.5 D	<0.5 D	2.7	2.6
CHLOROBENZENE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
ETHYL BENZENE		<0.5 D	<0.5 D	1.5	1.5
STYRENE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
TOTAL XYLENES		<0.5 D	<0.5 D	2.6	2.8

Please reference the following page(s) for date and analyst.

*Some of the above names have been abbreviated. Please reference the enclosed list for their complete names.

FREE-COL LABORATORIES, INC.

P.O. BOX 557,COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

5815 AIRPORT ROAD
ROANOKE, VIRGINIA 24012
PHONE: (703) 265-2544
FAX: (703) 362-1663

09/26/95

TO:

DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094

P.O. # HH48888

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

SAMPLE ID : TRIP BLANK

LAB ID 50920416
DATE RECEIVED: 09/20/95

PARAMETER	RESULTS	UNITS	DATE AND ANALYST
VOLATILE COMPOUNDS			
Chloromethane	<0.010	MG/L	09/23/95 MAJOR/
Bromomethane	<0.010		ECKLUND
Vinyl Chloride	<0.010		
Chloroethane	<0.010		
Methylene Chloride	<0.005		
Acetone	<0.10		
Carbon Disulfide	<0.005		
1,1-Dichloroethene	<0.005		
1,1-Dichloroethane	<0.005		
1,2-Dichloroethenes (Total)***	<0.005		
Chloroform	<0.005		
1,2-Dichloroethane	<0.005		
2-Butanone	<0.10		
1,1,1-Trichloroethane	<0.005		
Carbon Tetrachloride	<0.005		
Vinyl Acetate	<0.050		
Bromodichloromethane	<0.005		
1,1,2,2-Tetrachloroethane	<0.005		
1,2-Dichloropropane	<0.005		
trans-1,3-Dichloropropene	<0.005		
Trichloroethene	<0.005		
Dibromochloromethane	<0.005		
1,1,2-Trichloroethane	<0.005		

***EPA Methods 601 and 624 and SW 846 Methods 8010 and 8240 do not differentiate the co-eluting cis and trans-1,2-dichloroethenes. The result reported is the sum of both compounds.

FREE-COL LABORATORIES, INC.

P.O. BOX 557,COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

5815 AIRPORT ROAD
ROANOKE, VIRGINIA 24012
PHONE: (703) 265-2544
FAX: (703) 362-1663

09/26/95

TO:

DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094

P.O. # HH48888

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

SAMPLE ID : TRIP BLANK

LAB ID 50920416
DATE RECEIVED: 09/20/95

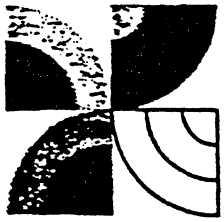
PARAMETER	RESULTS	UNITS	DATE AND ANALYST
VOLATILE COMPOUNDS Continued			
Benzene	<0.005	MG/L	09/23/95 MAJOR/
cis-1,3-Dichloropropene	<0.005		ECKLUND
2-Chloroethylvinyl ether	<0.010		
Bromoform	<0.005		
2-Hexanone	<0.050		
4-Methyl-2-pentanone	<0.050		
Tetrachloroethene	<0.005		
Toluene	<0.005		
Chlorobenzene	<0.005		
Ethylbenzene	<0.005		
Styrene	<0.005		
Total Xylenes	<0.005		

Volatile Compounds - Method 8240A
"Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", SW-846, Third Edition, U.S. Environmental Protection Agency. Revised 1986.

Andrew K. Ecklund
ASST. LABORATORY DIRECTOR

pc: Mr. Steve Blair, GZA

FREE-COL LABORATORIES, INC.
P.O. Box 557, Cotton Road
Meadville, Pennsylvania 16335-0557
Phone: Area Code 814/724-6242
FAX: Area Code 814/333-1466



ENVIRONMENTAL
OCCUPATIONAL HEALTH
FOOD SCIENCE
SPECIALISTS

Unabbreviated Listing of Hazardous Substance List Compounds

VOLATILE COMPOUNDS

Chloromethane
Bromomethane
Vinyl Chloride
Chloroethane
Methylene Chloride
Acetone
Carbon Disulfide
1,1-Dichloroethene
1,1-Dichloroethane
1,2-Dichloroethylenes (Total)***
Chloroform
1,2-Dichloroethane
2-Butanone
1,1,1-Trichloroethane
Carbon Tetrachloride
Vinyl Acetate
Ethyl Benzene
Styrene
Total Xylenes

Bromodichloromethane
1,1,2,2-Tetrachloroethane
1,2-Dichloropropane
trans-1,3-Dichloropropene
Trichloroethene
Dibromochloromethane
1,1,2-Trichloroethane
Benzene
cis-1,3-Dichloropropene
2-Chloroethyl Vinyl Ether
Bromoform
2-Hexanone
4-Methyl-2-pentanone
Tetrachloroethene
Toluene
Chlorobenzene

***EPA Methods 601 and 624 and SW 846 Methods 8010 and 8240 do not differentiate the co-eluting cis and trans-1,2-dichloroethenes. The result reported to you is the sum of both compounds.

FREE-COL LABORATORIES, INC.

P.O. BOX 557,COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

5815 AIRPORT ROAD
ROANOKE, VIRGINIA 24012
PHONE: (703) 265-2544
FAX: (703) 362-1663

TO:

Results expressed as MG/KG or % are calculated on an as received weight basis, with two exceptions: % volatile solids and % fixed solids (% ash) are expressed on a dry weight basis.

ANALYTICAL REPORT FORM

CODE B: This analyte was detected in the associated blank as well as in the sample. It indicates possible/probable contamination. The data user may subtract the blank value from the sample value at his/her discretion.

CODE D: Detection limit change due to a dilution.

CODE R: The percent recovery on the spiked sample associated with this sample was not within the acceptance limits of 75% - 125%

CODE S: This result was obtained by Method of Standard Additions.

CODE NA: Not Applicable

CODE ND: Not Detectable

PRC: Preparation Reference Control

VOID: The sample plus spike concentration exceeded the linear range of the standard curve.

CODE Q: Values for parameters quantified in this sample have been adjusted for recoveries of the analytical matrix spike. The adjustments have been based on the matrix recoveries from this sample. Adjusted values are not given where sample values were less than the detection limit or where spike recoveries are equal to 100%

CODE J: This result is an estimated value. It indicates that the compound meets the mass spectral data identification criteria. The result is less than the quantitation limit but greater than zero.

Limits in effect as of May 18, 1995

FREE-COL LABORATORIES, INC.
VOA REPEAT CONTROL INFORMATION
(CLP - DUPLICATE SAMPLE LIMITS)

Date 9-21-95 Analyst MAJOR / ECKLUND
Samples associated with this repeat control:
509-20-424

509-20-408 ⇒ 411

Sample used as repeat control: 909-18-069
AD = Absolute Difference RPD = Relative Percent Difference

Parameter Units = ug/L	Samp. Value	Repeat Value	Accept AD	Accept RPD	Assayd AD/RPD	File
Chloromethane	<10	<10			0	820
Bromomethane	↓	↓			↓	819
Vinyl chloride				27		828
Chloroethane						807
Methylene chloride	<5	<5		17		821
Acrolein	-	-				800
Acrylonitrile	-	-				801
1,1-Dichloroethene	<5	<5			0	813
1,1-Dichloroethane				41		811
~~trans~~-1,2-Dichloroethenes (total)				28		814
Chloroform				14		809
1,2-Dichloroethane						812
1,1,1-Trichloroethane				27		825
Carbon tetrachloride						804
Bromodichloromethane				79		810
1,2-Dichloropropane						815
trans-1,3-Dichloropropene						817
Trichloroethene	↓	↓		32	↓	827
Benzene	2	2		49	0	802
Dibromochloromethane	<5	<5		70	0	806
1,1,2-Trichloroethane	↓	↓				826
cis-1,3-Dichloropropene						816
2-Chloroethyl vinyl ether	<10	<10				808
Bromoform	<5	<5				803
Tetrachloroethene	<5			33		823
1,1,2,2-Tetrachloroethane						822
Toluene				38		824
Chlorobenzene				24		805
Ethyl benzene				5		818
1,3-Dichlorobenzene						830
1,2-Dichlorobenzene						829
1,4-Dichlorobenzene	↓	↓		36		831
Acetone	<100	<100		26	↓	836

Limits in effect as of May 18, 1995

FREE-COL LABORATORIES, INC.
VOA REPEAT CONTROL INFORMATION
(CLP - DUPLICATE SAMPLE LIMITS)

Date 9-21-95 Analyst Ecklund / MAJOR
Samples associated with this repeat control:
509-20-424

509-20-468 → 411

Sample used as repeat control: ● 909-18-069
AD = Absolute Difference RPD = Relative Percent Difference

Parameter	Samp. Value	Repeat Value	Accept AD	Accept RPD	Assayd AD/RPD	File
Units = ug/L						
3-Chloro-1-propene						
Dichlorodifluoromethane						
Methyl Ethyl Ketone	<100	<100			0	
MIBK	<50	<50			0	
1,1,1,2-Tetrachloroethane						
Trichlorofluoromethane						
1,2,3-Trichloropropane						
1,2-Dibromomethane						
Cis-1.2-Dichloroethane						
Xylene	41	38			7.8 %	
vinyl Acetate	<50	<50			0	
carbon disulfide	<5	<5			↓	
Styrene	<5	<5				
methyl Butyl Ketone	<50	<50				

Free-Col Laboratories, Inc.
Surrogate Spike Information
Method 8260

Date: 9.21.95 Analyst: Ecklund/Major

Units: % Recovery

Type: W = Low/Medium Water
S = Low/Medium Soil/Sediment

	Dibromofluoromethane	Toluene-d_8	4-Bromofluoro-benzene
Limits:			
Water	86-118	88-110	86-115
Soil/Sediment	80-120	81-117	74-121

Type (S/W)	Free-Col I.D.			
S	509-20-408	89	104	94
S	509-20-409	92	104	99
S	509-20-410	95	102	96
S	509-20-411	92	104	96
S	509-20-424	98	103	95

Limits in effect as of May 18, 1995

FREE-COL LABORATORIES, INC.
VOA REFERENCE CONTROL INFORMATION
(CLP - CALIBRATION VERIFICATION LIMITS)

Date 9-21-95 Analyst Ecklund \ Major
Samples associated with this reference control:
509-20-424

509-20-408 → 411

Parameter	Target Value ug/L	Acceptance Limits ug/L	Assayed Value ug/L	File#
Chloromethane	20	5.4-34.5	23.4	223
Bromomethane	20	8.1-39.8	19.4	222
Vinyl chloride	20	1.3-42.4	16.6	232
Chloroethane	20	4.0-36.9	19.9	209
Methylene chloride	20	11.5-31.4	18.3	224
Acrolein	62	4.2-105.4	—	201
Acrylonitrile	58	13.2-116.0	—	202
1,1-Dichloroethene	20	10.9-32.4	17.7	216
1,1-Dichloroethane	20	15.3-28.0	16.8	214
total ~~trans~~-1,2-Dichloroethene	20	13.6-28.3	17.2	217
Chloroform	20	15.5-26.2	18.1	211
1,2-Dichloroethane	20	7.5-34.5	22.4	215
1,1,1-Trichloroethane	20	13.6-29.8	20.5	228
Carbon tetrachloride	20	7.7-28.1	20.5	206
Bromodichloromethane	20	9.7-30.1	21.7	212
1,2-Dichloropropane	20	15.2-28.0	25.2	218
trans-1,3-Dichloropropene	20	12.7-25.6	18.9	220
Trichloroethene	20	14.0-27.3	23.4	230
Benzene	20	14.2-28.1	21.4	203
Dibromochloromethane	20	4.1-29.5	20.0	208
1,1,2-Trichloroethane	20	14.2-28.5	21.4	229
cis-1,3-Dichloropropene	20	10.1-27.2	19.0	219
2-Chloroethyl vinyl ether	20	9.9-32.5	25.2	210
Bromoform	20	2.3-31.1	20.6	205
Tetrachloroethene	20	13.0-28.7	22.3	226
1,1,2,2-Tetrachloroethane	20	14.7-26.1	19.6	225
Toluene	20	15.1-25.7	21.6	227
Chlorobenzene	20	11.1-28.9	21.1	207
Ethyl benzene	20	13.2-27.7	22.1	221
1,3-Dichlorobenzene	26	18.2-36.9	26.0	234
1,2-Dichlorobenzene	26	11.0-42.2	27.4	233
1,4-Dichlorobenzene	20	3.0-36.1	20.9	235
Diethyl Benzene	44	25.9-62.9	—	237
Ethyl Ether	35	26.9-49.4	—	236
Xylenes	44	21.0-66.7	49.1	238
MEK	20	9.1-39.4	21.2	240
Acetone	20	9.6-38.0	14.5	242

Limits in effect as of May 18, 1995

FREE-COL LABORATORIES, INC.
VOA REFERENCE CONTROL INFORMATION
(CLP - CALIBRATION VERIFICATION LIMITS)

Date 9-21-95 Analyst Ecklund/Major

Samples associated with this reference control:
509-20-424

509-20-408 > 411

Parameter	Target Value ug/L	Acceptance Limits ug/L	Assayed Value ug/L	File#
MIBK	20	14.0-29.7	20.8	243
Tetrahydrofuran	45	34.8-60.3	—	244
Carbondisulfide	20	11.0-30.4	16.4	245
Styrene	20	12.4-30.0	19.5	246
Vinyl Acetate	20	11.0-27.5	16.0	247
Amyl Acetate	44	14.7-64.6	—	248
Methyl Butyl Ketone	20	10.3-33.9	20.2	249

FREE-COL LABORATORIES, INC.
VOA BLANK INFORMATION
(CLP - CALIBRATION BLANK LIMITS)

Date 9-21-95 Analyst Ecklund/Major

Samples associated with this blank:
509-20-424

509-20-408→411

Parameter	Blank Value
Units = ug/L	
Chloromethane	<10
Bromomethane	
Vinyl chloride	
Chloroethane	
Methylene chloride	<5
Acrolein	—
Acrylonitrile	—
1,1-Dichloroethene	<5
1,1-Dichloroethane	
total ~~trans~~-1,2-Dichloroethene	
Chloroform	
1,2-Dichloroethane	
1,1,1-Trichloroethane	
Carbon tetrachloride	
Bromodichloromethane	
1,2-Dichloropropane	
trans-1,3-Dichloropropene	
Trichloroethene	
Benzene	
Dibromochloromethane	
1,1,2-Trichloroethane	
cis-1,3-Dichloropropene	
2-Chloroethyl vinyl ether	<10
Bromoform	<5
Tetrachloroethene	
1,1,2,2-Tetrachloroethane	
Toluene	
Chlorobenzene	
Ethyl benzene	
1,3-Dichlorobenzene	
1,2-Dichlorobenzene	
1,4-Dichlorobenzene	
Xylene	
2-Butanone - MEK	<100
4-Methyl-2-pentanone	<50
Acetone	<100
Syrene	<5

FREE-COL LABORATORIES, INC.
VOA BLANK INFORMATION
(CLP - CALIBRATION BLANK LIMITS)

Date 9-21-95 Analyst Ecklund/Major

Samples associated with this blank:

509-20-424

509-20-408 > 411

Parameter	Blank Value
Units = ug/L	
Carbon Disulfide	<5
Vinyl Acetate	<50
2-Hexanone - MBK	<50
Dichlorofluoromethane	
1,1,1,2-Tetrachloroethane	
Trichlorofluoromethane	
1,2,3-Trichloropropane	
3-Chloro-1-propene	
1,2-Dibrmomethane	
cis,1,2-Dichloroethene	

Limits in effect as of May 18, 1995

FREE-COL LABORATORIES, INC.
VOA SPIKED CONTROL INFORMATION
(CLP - ANALYTICAL SPIKED SAMPLE LIMITS)

Date 9-21-95 Analyst Echlund/Major

Samples associated with this spiked control:
509-20-408 → 411
509-20-424

Sample used as spiked control: 509-18-069

PARAMETER	SPIKE ADDED UG/L	SPIKED RESULT UG/L	SAMPLE RESULT UG/L	ACCEPT. LIMITS % REC.	ASSYD % REC.	FILE
Chloromethane	20	24	<10	28-189	120	520
Bromomethane	20	21		31-212	105	519
Vinyl chloride	20	18		22-185	90	528
Chloroethane	20	26		52-170	130	507
Methylene chloride	20	22	<5	63-148	110	521
Acrolein	62	—	-	22-185	-	500
Acrylonitrile	58	—	-	53-187	-	501
1,1-Dichloroethene	20	19	<5	50-158	95	513
1,1-Dichloroethane	20	16		73-141	80	511
~~trans~~-1,2-Dichloroethene	20	16		63-151	80	514
Chloroform	20	17		68-141	85	509
1,2-Dichloroethane	20	24		52-157	120	512
1,1,1-Trichloroethane	20	20		58-155	100	525
Carbon tetrachloride	20	26		40-141	130	504
Bromodichloromethane	20	24		46-150	120	510
1,2-Dichloropropane	20	23		67-145	115	515
trans-1,3-Dichloropropene	20	21		56-141	105	517
Trichloroethene	20	25		64-129	125	527
Benzene	20	22		70-144	110	502
Dibromochloromethane	20	21		27-158	105	506
1,1,2-Trichloroethane	20	22		59-149	110	526
cis-1,3-Dichloropropene	20	20		46-151	100	516
2-Chloroethyl vinyl ether	20	19	<10	4-186	95	508
Bromoform	20	22	<5	6-150	110	503
Tetrachloroethene	20	21		48-163	105	523
1,1,2,2-Tetrachloroethane	20	19		46-164	95	522
Toluene	20	22		72-131	110	524
Chlorobenzene	20	21		70-131	105	505
Ethyl benzene	20	20		61-140	100	518
1,3-Dichlorobenzene	26	22		58-163	110	530
1,2-Dichlorobenzene	26	24		42-159	92	529
1,4-Dichlorobenzene	20	18		33-177	90	531
Diethyl Benzene	44	—	—	71-137	-	533
Ethyl Ether	35	—	—	62-160	-	532
Xylenes	44	84	41	72-130	98	534
MEK	20	17	<100	63-179	85	536

Limits in effect as of May 18, 1995

FREE-COL LABORATORIES, INC.
VOA SPIKED CONTROL INFORMATION
(CLP - ANALYTICAL SPIKED SAMPLE LIMITS)

Date 9-21-95 Analyst Ecklund/Major

Samples associated with this spiked control:
509-20-408→411
509-20-424

Sample used as spiked control: 509-18-069

PARAMETER	SPIKE ADDED UG/L	SPIKED RESULT UG/L	SAMPLE RESULT UG/L	ACCEPT. LIMITS % REC.	ASSYD % REC.	FILE
Acetone	20	16	<100	51-175	80	538
MIBK	20	24	<50	53-160	120	539
Ethyl Acetate	45	—	—	71-140	—	535
Tetrahydrofuran	45	—	—		—	
Carbondisulfide	20	16	<5		80	
Styrene	20	19	<5		95	
Vinyl Acetate	20	12	<50		60	
Amyl Acetate	44	—	—		—	
Methyl Butyl Ketone	20	19	<50		95	

Free-Col Laboratories, Inc.
Surrogate Spike Information
Method 8260

Date: 9-23-95 Analyst: Ecklund

Units: % Recovery

Type: W = Low/Medium Water
S = Low/Medium Soil/Sediment

	Dibromofluoromethane	Toluene-d_8	4-Bromofluoro-benzene
Limits:			
Water	86-118	88-110	86-115
Soil/Sediment	80-120	81-117	74-121

Type (S/W)	Free-Col I.D.			
W	509-20-412	91	98	93
W	509-20-413	91	107	98
W	509-20-414	98	102	98
W	509-20-415	91	98	97
W	509-20-416	90	104	106
S	509-20-429	91	101	97
S	509-20-430	95	103	99
S	509-20-431	100	100	93
S	509-20-432	104	100	88

Limits in effect as of May 18, 1995

FREE-COL LABORATORIES, INC.
VOA REFERENCE CONTROL INFORMATION
(CLP - CALIBRATION VERIFICATION LIMITS)

Date 9.23.95 Analyst Ecklund

Samples associated with this reference control:
509-20-406/407
509-21-400→407
509-20-412→416
509-20 429→432

Parameter	Target Value ug/L	Acceptance Limits ug/L	Assayed Value ug/L	File#
Chloromethane	20	5.4-34.5	19.8	223
Bromomethane	20	8.1-39.8	20.5	222
Vinyl chloride	20	1.3-42.4	17.7	232
Chloroethane	20	4.0-36.9	22.6	209
Methylene chloride	20	11.5-31.4	17.2	224
Acrolein	62	4.2-105.4	—	201
Acrylonitrile	58	13.2-116.0	—	202
1,1-Dichloroethene	20	10.9-32.4	17.4	216
1,1-Dichloroethane	20	15.3-28.0	19.6	214
total ~~trans~~-1,2-Dichloroethenes	20	13.6-28.3	17.0	217
Chloroform	20	15.5-26.2	19.6	211
1,2-Dichloroethane	20	7.5-34.5	22.2	215
1,1,1-Trichloroethane	20	13.6-29.8	19.7	228
Carbon tetrachloride	20	7.7-28.1	23.3	206
Bromodichloromethane	20	9.7-30.1	23.6	212
1,2-Dichloropropane	20	15.2-28.0	21.7	218
trans-1,3-Dichloropropene	20	12.7-25.6	20.5	220
Trichloroethene	20	14.0-27.3	22.9	230
Benzene	20	14.2-28.1	20.1	203
Dibromochloromethane	20	4.1-29.5	22.3	208
1,1,2-Trichloroethane	20	14.2-28.5	21.2	229
cis-1,3-Dichloropropene	20	10.1-27.2	20.4	219
2-Chloroethyl vinyl ether	20	9.9-32.5	22.4	210
Bromoform	20	2.3-31.1	23.4	205
Tetrachloroethene	20	13.0-28.7	23.7	226
1,1,2,2-Tetrachloroethane	20	14.7-26.1	17.4	225
Toluene	20	15.1-25.7	20.9	227
Chlorobenzene	20	11.1-28.9	20.6	207
Ethyl benzene	20	13.2-27.7	21.0	221
1,3-Dichlorobenzene	26	18.2-36.9	26.9	234
1,2-Dichlorobenzene	26	11.0-42.2	26.7	233
1,4-Dichlorobenzene	20	3.0-36.1	21.1	235
Diethyl Benzene	44	25.9-62.9	—	237
Ethyl Ether	35	26.9-49.4	—	236
Xylenes	44	21.0-66.7	46.6	238
MEK	20	9.1-39.4	17.9	240
Acetone	20	9.6-38.0	16.0	242

Limits in effect as of May 18, 1995

FREE-COL LABORATORIES, INC.
VOA REFERENCE CONTROL INFORMATION
(CLP - CALIBRATION VERIFICATION LIMITS)

Date 9-23-95 Analyst Ecklund

Samples associated with this reference control:
509-20-406/407
509-21-400 → 407
509-20-412 → 416
509-20-429 → 432

Parameter	Target Value ug/L	Acceptance Limits ug/L	Assayed Value ug/L	File#
MIBK	20	14.0-29.7	17.6	243
Tetrahydrofuran	45	34.8-60.3	—	244
Carbondisulfide	20	11.0-30.4	20.9	245
Styrene	20	12.4-30.0	19.1	246
Vinyl Acetate	20	11.0-27.5	16.8	247
Amyl Acetate	44	14.7-64.6	—	248
Methyl Butyl Ketone	20	10.3-33.9	17.3	249
Dichlorodifluoromethane	20		16.8	
Trichlorofluoromethane	20		18.7	
Freon-113	31		32.2	

FREE-COL LABORATORIES, INC.
VOA BLANK INFORMATION
(CLP - CALIBRATION BLANK LIMITS)

Date 9-23-95 Analyst Echlund

Samples associated with this blank:

509-20-412 → 446

Parameter	Blank Value
Units = ug/L	
Chloromethane	<10
Bromomethane	
Vinyl chloride	
Chloroethane	
Methylene chloride	<5
Acrolein	-
Acrylonitrile	-
1,1-Dichloroethene	<5
1,1-Dichloroethane	
~~trans~~-1,2-Dichloroethene (total)	
Chloroform	
1,2-Dichloroethane	
1,1,1-Trichloroethane	
Carbon tetrachloride	
Bromodichloromethane	
1,2-Dichloropropane	
trans-1,3-Dichloropropene	
Trichloroethene	
Benzene	
Dibromochloromethane	
1,1,2-Trichloroethane	
cis-1,3-Dichloropropene	
2-Chloroethyl vinyl ether	<10
Bromoform	<5
Tetrachloroethene	
1,1,2,2-Tetrachloroethane	
Toluene	
Chlorobenzene	
Ethyl benzene	
1,3-Dichlorobenzene	
1,2-Dichlorobenzene	
1,4-Dichlorobenzene	
Xylene	
2-Butanone - MEK	<100
4-Methyl-2-pentanone	<50
Acetone	<100
Syrene	<5

FREE-COL LABORATORIES, INC.
VOA BLANK INFORMATION
(CLP - CALIBRATION BLANK LIMITS)

Date 9-23-95 Analyst Ecklund

Samples associated with this blank:
509-20-412→416

Parameter	Blank Value
Units = ug/L	
Carbon Disulfide	<5
Vinyl Acetate	<50
2-Hexanone - MBK	<50
Dichlorofluoromethane	<2
1,1,1,2-Tetrachloroethane	
Trichlorofluoromethane	
1,2,3-Trichloropropane	
3-Chloro-1-propene	
1,2-Dibrmomethane	
cis,1,2-Dichloroethene	

Limits in effect as of May 18, 1995

FREE-COL LABORATORIES, INC.
VOA SPIKED CONTROL INFORMATION
(CLP - ANALYTICAL SPIKED SAMPLE LIMITS)

Date 9-23-95 Analyst Eriland Mark

Samples associated with this spiked control:
SC9-20-406/407
SC9-20-429 → 432
SC9-20-412 → 416
SC9-21-400 → 407

Sample used as spiked control: SC9-21-403

PARAMETER	SPIKE ADDED UG/L	SPIKED RESULT UG/L	SAMPLE RESULT UG/L	ACCEPT. LIMITS % REC.	ASSYD % REC.	FILE
Chloromethane	20	15	<10	28-189	75	520
Bromomethane	20	20		31-212	100	519
Vinyl chloride	20	18		22-185	90	528
Chloroethane	20	19		52-170	95	507
Methylene chloride	20	16	<5	63-148	80	521
Acrolein	62	-	—	22-185	-	500
Acrylonitrile	58	-	—	53-187	-	501
1,1-Dichloroethene	20	16	<5	50-158	80	513
1,1-Dichloroethane	20	15		73-141	75	511
total ~~trans~~-1,2-Dichloroethene	20	15		63-151	75	514
Chloroform	20	16		68-141	80	509
1,2-Dichloroethane	20	22		52-157	110	512
1,1,1-Trichloroethane	20	25		58-155	125	525
Carbon tetrachloride	20	20		40-141	100	504
Bromodichloromethane	20	22		46-150	110	510
1,2-Dichloropropane	20	22		67-145	110	515
trans-1,3-Dichloropropene	20	17		56-141	85	517
Trichloroethene	20	30	6	64-129	120	527
Benzene	20	20	<5	70-144	100	502
Dibromochloromethane	20	18		27-158	90	506
1,1,2-Trichloroethane	20	20		59-149	100	526
cis-1,3-Dichloropropene	20	17		46-151	85	516
2-Chloroethyl vinyl ether	20	24	<10	4-186	120	508
Bromoform	20	17	<5	6-150	85	503
Tetrachloroethene	20	32	12	48-163	100	523
1,1,2,2-Tetrachloroethane	20	16	<5	46-164	80	522
Toluene	20	21		72-131	105	524
Chlorobenzene	20	20		70-131	100	505
Ethyl benzene	20	21		61-140	105	518
1,3-Dichlorobenzene	26	24		58-163	92 ~~120~~ pm	530
1,2-Dichlorobenzene	26	24		42-159	92	529
1,4-Dichlorobenzene	20	19		33-177	95	531
Diethyl Benzene	44	—	—	71-137	-	533
Ethyl Ether	35	—	—	62-160	-	532
Xylenes	44	47	<10	72-130	107	534
MEK	20	16	<100	63-179	80	536

D-73

Limits in effect as of May 18, 1995

FREE-COL LABORATORIES, INC.
VOA SPIKED CONTROL INFORMATION
(CLP - ANALYTICAL SPIKED SAMPLE LIMITS)

Date 9-23-95 Analyst Ecklund/Major
Samples associated with this spiked control:
509-20-406/407
509-21-400→407

Sample used as spiked control: 509-21-403

PARAMETER	SPIKE ADDED UG/L	SPIKED RESULT UG/L	SAMPLE RESULT UG/L	ACCEPT. LIMITS % REC.	ASSYD % REC.	FILE
Acetone	20			51-175		538
MIBK	20			53-160		539
Ethyl Acetate	45			71-140		535
Tetrahydrofuran	45					
Carbondisulfide	20					
Styrene	20					
Vinyl Acetate	20					
Amyl Acetate	44					
Methyl Butyl Ketone	20					
Dichlorodifluoromethane	20	26	<2		130	
Trichlorofluoromethane	20	15	<2		75	
Freon-113	31	142	118		77	

Limits in effect as of May 18, 1995

FREE-COL LABORATORIES, INC.
VOA REPEAT CONTROL INFORMATION
(CLP - DUPLICATE SAMPLE LIMITS)

Date 9/23/95 Analyst MAJOR
Samples associated with this repeat control:
509-20-412 ⇒ 416
509-20-424 ⇒ 432

Sample used as repeat control: 509-21-405
AD = Absolute Difference RPD = Relative Percent Difference

Units = µg/L

Parameter	Samp. Value	Repeat Value	Accept AD	Accept RPD	Assayd AD/RPD	File
Chloromethane	<10	<10			0	820
Bromomethane	↓	↓			↓	819
Vinyl chloride				27		828
Chloroethane	↓	↓				807
Methylene chloride	<5	<5		17	↓	821
Acrolein	-	-				800
Acrylonitrile	-	-				801
1,1-Dichloroethene	<5	<5			0	813
1,1-Dichloroethane				41		811
trans-1,2-Dichloroethene				28		814
Chloroform				14		809
1,2-Dichloroethane						812
1,1,1-Trichloroethane				27		825
Carbon tetrachloride						804
Bromodichloromethane				79		810
1,2-Dichloropropane						815
trans-1,3-Dichloropropene						817
Trichloroethene				32		827
Benzene				49		802
Dibromochloromethane				70		806
1,1,2-Trichloroethane						826
cis-1,3-Dichloropropene	↓	↓				816
2-Chloroethyl vinyl ether	<10	<10				808
Bromoform	<5	<5				803
Tetrachloroethene				33		823
1,1,2,2-Tetrachloroethane						822
Toluene				38		824
Chlorobenzene				24		805
Ethyl benzene				5		818
1,3-Dichlorobenzene						830
1,2-Dichlorobenzene						829
1,4-Dichlorobenzene	↓	↓		36	↓	831
Acetone	<100	<100		26	0	836

Limits in effect as of May 18, 1995

FREE-COL LABORATORIES, INC.
VOA REPEAT CONTROL INFORMATION
(CLP - DUPLICATE SAMPLE LIMITS)

Date 9/23/95 Analyst MAJOR
Samples associated with this repeat control:

509-20-412 → 416

509-20-429 → 432

Sample used as repeat control: 509-21-405
AD = Absolute Difference RPD = Relative Percent Difference

Parameter Units = ug/L	Samp. Value	Repeat Value	Accept AD	Accept RPD	Assayd AD/RPD	File
3-Chloro-1-propene						
Dichlorodifluoromethane						
Methyl Ethyl Ketone	<100	<100			0	
MIBK	<50	<50			0	
1,1,1,2-Tetrachloroethane						
Trichlorofluoromethane						
1,2,3-Trichloropropane						
1,2-Dibromomethane						
Cis-1.2-Dichloroethane						
Xylene	<5	<5			0	
Carbon disulfide	<5	<5			↓	
Vinyl acetate	<50	<50				
Methyl Butyl Ketone	<50	<50				
Styrene	<5	<5				

FIGURE E2

ENVIRONMENTAL SAMPLE DESCRIPTION AND CHAIN OF CUSTODY RECORD

ATTACHMENT #2

LED: 9/8 and 9/14/95

RESULTS REQUIRED BY: _____

VERBAL RESULTS NEEDED? _____

LABORATORY: Free - Col Labs

HARRISON DIVISION, GMC
200 UPPER MOUNTAIN ROAD
LOCKPORT, NEW YORK 14094
PHONE: (716) ~~439~~ 685-2300
CONTACT: Steve Blair

LE TYPE: (CIRCLE) 1) WASTEWATER 2) DRINKING WATER 3) MONITORING WELL (4) SOIL
5) SLUDGE 6) SOLID WASTE 7) OIL 8) INDUSTRIAL HYGIENE
9) OTHER _____

LE DESCRIPTION: Soil - Please note holding time. Samples should be tested as needed to meet holding times

AMPLE #	LOCATION	TIME	PARAMETERS	SAMPLE BOTTLE LOT # (OPTIONAL)
9/8/95	AP-11 2-3	3^00 pm	SW 846 Method 8240	
9/14/95	AP-11 5.5-6	2^00 pm	↓	
9/14/95	AP-12 6-6.5	2^30 pm	↓	
9/14/95	AP-13 7-8	3^00 pm	SW 846 Method 8240	
9/19/95	MW-1	11^00 am	SW 846 Method 8240	
"	MW-2	11^15 am	↓	
"	MW-3	11^20 am	↓	
"	MW-4	11^30 am	↓	
	Trip Blank		↓	

IUM DETECTION LEVELS REQUIRED? _____

S BLE INTERFERENCES: _____

ATION FOR TEST (COMPARISON OF AREAS, BACKGROUND, ETC.) _____

TTLES RECEIVED BY: (DATE/TIME) [HRD PERSONNEL]

BOTTLES RELINQUISHED BY: (DATE/TIME) [HRD PERSONNEL]

TTLES RELINQUISHED BY: (DATE/TIME) [HRD PERSONNEL]

BOTTLES RECEIVED BY: (DATE/TIME) [LAB PERSONNEL]
William F Slats 9-20-95 11:40

SAMPLE COLLECTED BY:
Gary Klaminski GZA

RECEIVED BY: [DATE, TIME, LAB SIGNATURE]
Joni Watt 9-20-95

FREE-COL LABORATORIES, INC.

P.O. BOX 557,COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-8242
FAX: (814) 333-1466

5815 AIRPORT ROAD
ROANOKE, VIRGINIA 24012
PHONE: (703) 265-2544
FAX: (703) 362-1663

10/19/95

TO:
DELPHI HARRISON THRM.SYS
ATTN: MS. CATHY VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094

P.O. # HH48888

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER	SAMPLE ID :	MW-3	MW-4	MW-2
		10/11/95	10/11/95	10/11/95
	LAB ID	51011524	51011525	51011526
	DATE RECEIVED:	10/11/95	10/11/95	10/11/95
VOLATILE COMPOUNDS	UNITS = MG/L			
CHLOROMETHANE		<1.0 D	<1.0 D	<1.0 D
BROMOMETHANE		<1.0 D	<1.0 D	<1.0 D
VINYL CHLORIDE		1.4	1.7	2.2
CHLOROETHANE		<1.0 D	<1.0 D	<1.0 D
METHYLENE CHLORIDE		<0.5 D	<0.5 D	<0.5 D
ACETONE		<10 D	<10 D	<10 D
CARBON DISULFIDE		<0.5 D	<0.5 D	<0.05 D
1,1,-DICHLOROETHENE		0.5	<0.5 D	<0.05 D
1,1,-DICHLOROETHANE		<0.5 D	<0.5 D	<0.05 D
1,2-DICHLORO***		230	220	77
CHLOROFORM		<0.5 D	<0.5 D	<0.5 D
1,2-DICHLOROETHANE		<0.5 D	<0.5 D	<0.5 D
2-BUTANONE		<10 D	<10 D	<10 D
1,1,1-TRICHLOROETHA*		<0.5 D	<0.5 D	<0.5 D
CARBON TETRACHLORIDE		<0.5 D	<0.5 D	<0.5 D
VINYL ACETATE		<5.0 D	<5.0 D	<5.0 D
BROMODICHLOROMETHANE		<0.5 D	<0.5 D	<0.5 D
1,1,2,2-TETRACHLORO*		<0.5 D	<0.5 D	<0.5 D
1,2-DICHLOROPROPANE		<0.5 D	<0.5 D	<0.5 D
TRANS-1,3-DICHLOROP*		<0.5 D	<0.5 D	<0.5 D
TRICHLOROETHENE		0.7	0.7	450
DIBROMOCHLOROMETHANE		<0.5 D	<0.5 D	<0.5 D
1,1,2-TRICHLOROETHA*		<0.5 D	<0.5 D	<0.5 D
BENZENE		3.2	3.2	<0.5 D
CIS-1,3-DICHLOROPRO*		<0.5 D	<0.5 D	<0.5 D

*Some of the above names have been abbreviated. Please reference the enclosed list for their complete names.

KEY: <=LESS THAN >=GREATER THAN w.f.=WILL FOLLOW

FREE-COL LABORATORIES, INC.

P.O. BOX 657,COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

5815 AIRPORT ROAD
ROANOKE, VIRGINIA 24012
PHONE: (703) 265-2544
FAX: (703) 362-1663

10/19/95

TO:
DELPHI HARRISON THRM.SYS
ATTN: MS. CATHY VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094

P.O. # HH48888

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER	SAMPLE ID :	MW-3	MW-4	MW-2
		10/11/95	10/11/95	10/11/95
	LAB ID	51011524	51011525	51011526
	DATE RECEIVED:	10/11/95	10/11/95	10/11/95
VOLATILE COMPOUNDS (Cont.)	UNITS =	MG/L		
2-CHLOR* VINYL ETHER		<1.0 D	<1.0 D	<1.0 D
BROMOFORM		<0.5 D	<0.5 D	<0.5 D
2-HEXANONE		<5.0 D	<5.0 D	<5.0 D
4-METHYL-2-PENTANONE		<5.0 D	<5.0 D	<5.0 D
TETRACHLOROETHENE		<0.5 D	<0.5 D	<0.5 D
TOLUENE		3.0	3.0	<0.5 D
CHLOROBENZENE		<0.5 D	<0.5 D	<0.5 D
ETHYL BENZENE		1.6	1.7	<0.5 D
STYRENE		<0.5 D	<0.5 D	<0.5 D
TOTAL XYLENES		2.9	2.9	<0.5 D

Please reference the following page(s) for date and analyst.

*Some of the above names have been abbreviated. Please reference the enclosed list for their complete names.

FREE-COL LABORATORIES, INC.

P.O. BOX 567,COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1486

5815 AIRPORT ROAD
ROANOKE, VIRGINIA 24012
PHONE: (703) 265-2544
FAX: (703) 362-1063

10/19/95

TO:
DELPHI HARRISON THRM.SYS
ATTN: MS. CATHY VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094

P.O. # HH48888

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER	SAMPLE ID :	MW-5	MW-6	MW-1
		10/11/95	10/11/95	10/11/95
	LAB ID	51011527	51011528	51011529
	DATE RECEIVED:	10/11/95	10/11/95	10/11/95
VOLATILE COMPOUNDS	UNITS = MG/L			
CHLOROMETHANE		<1.0 D	<1.0 D	<1.0 D
BROMOMETHANE		<1.0 D	<1.0 D	<1.0 D
VINYL CHLORIDE		1.7	1.0	<1.0 D
CHLOROETHANE		<1.0 D	<1.0 D	<1.0 D
METHYLENE CHLORIDE		<0.5 D	<0.5 D	<0.5 D
ACETONE		<10 D	<10 D	<10 D
CARBON DISULFIDE		<0.5 D	<0.5 D	<0.5 D
1,1,-DICHLOROETHENE		<0.5 D	<0.5 D	<0.5 D
1,1,-DICHLOROETHANE		<0.5 D	<0.5 D	<0.5 D
1,2-DICHLORO***		77	21	19
CHLOROFORM		<0.5 D	<0.5 D	<0.5 D
1,2-DICHLOROETHANE		<0.5 D	<0.5 D	<0.5 D
2-BUTANONE		<10 D	<10 D	<10 D
1,1,1-TRICHLOROETHA*		<0.5 D	<0.5 D	<0.5 D
CARBON TETRACHLORIDE		<0.5 D	<0.5 D	<0.5 D
VINYL ACETATE		<5.0 D	<5.0 D	<5.0 D
BROMODICHLOROMETHANE		<0.5 D	<0.5 D	<0.5 D
1,1,2,2-TETRACHLORO*		<0.5 D	<0.5 D	<0.5 D
1,2-DICHLOROPROPANE		<0.5 D	<0.5 D	<0.5 D
TRANS-1,3-DICHLOROP*		<0.5 D	<0.5 D	<0.5 D
TRICHLOROETHENE		470	900	870
DIBROMOCHLOROMETHANE		<0.5 D	<0.5 D	<0.5 D
1,1,2-TRICHLOROETHA*		<0.5 D	<0.5 D	<0.5 D
BENZENE		<0.5 D	<0.5 D	<0.5 D
CIS-1,3-DICHLOROPRO*		<0.5 D	<0.5 D	<0.5 D

*Some of the above names have been abbreviated. Please reference the enclosed list for their complete names.

FREE-COL LABORATORIES, INC.

P.O. BOX 557,COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-8242
FAX: (814) 333-1468

5815 AIRPORT ROAD
ROANOKE, VIRGINIA 24012
PHONE: (703) 265-2544
FAX: (703) 362-1863

10/19/95

TO:

DELPHI HARRISON THRM.SYS
ATTN: MS. CATHY VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094

P.O. # HH48888

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER	SAMPLE ID / LAB ID / DATE RECEIVED:	MW-5 10/11/95 51011527 10/11/95	MW-6 10/11/95 51011528 10/11/95	MW-1 10/11/95 51011529 10/11/95
VOLATILE COMPOUNDS (Cont.)	UNITS = MG/L			
2-CHLOR* VINYL ETHER		<1.0 D	<1.0 D	<1.0 D
BROMOFORM		<0.5 D	<0.5 D	<0.5 D
2-HEXANONE		<5.0 D	<5.0 D	<5.0 D
4-METHYL-2-PENTANONE		<5.0 D	<5.0 D	<5.0 D
TETRACHLOROETHENE		<0.5 D	<0.5 D	<0.5 D
TOLUENE		<0.5 D	<0.5 D	<0.5 D
CHLOROBENZENE		<0.5 D	<0.5 D	<0.5 D
ETHYL BENZENE		<0.5 D	<0.5 D	<0.5 D
STYRENE		<0.5 D	<0.5 D	<0.5 D
TOTAL XYLENES		<0.5 D	<0.5 D	<0.5 D

Please reference the following page(s) for date and analyst.

*Some of the above names have been abbreviated. Please reference the enclosed list for their complete names.

FREE-COL LABORATORIES, INC.

P.O. BOX 557,COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

5815 AIRPORT ROAD
ROANOKE, VIRGINIA 24012
PHONE: (703) 265-2544
FAX: (703) 362-1663

10/19/95

TO:
DELPHI HARRISON THRM.SYS
ATTN: MS. CATHY VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094

P.O. # HH48888

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

SAMPLE ID : TRIP BLANK
10/11/95

LAB ID 51011530
DATE RECEIVED: 10/11/95

PARAMETER	RESULTS	UNITS	DATE AND ANALYST
VOLATILE COMPOUNDS			
Chloromethane	<0.010	MG/L	10/17/95 ECKLUND/
Bromomethane	<0.010		MAJOR
Vinyl Chloride	<0.010		
Chloroethane	<0.010		
Methylene Chloride	<0.005		
Acetone	<0.10		
Carbon Disulfide	<0.005		
1,1-Dichloroethene	<0.005		
1,1-Dichloroethane	<0.005		
1,2-Dichloroethenes (Total)***	<0.005		
Chloroform	<0.005		
1,2-Dichloroethane	<0.005		
2-Butanone	<0.10		
1,1,1-Trichloroethane	<0.005		
Carbon Tetrachloride	<0.005		
Vinyl Acetate	<0.050		
Bromodichloromethane	<0.005		
1,1,2,2-Tetrachloroethane	<0.005		
1,2-Dichloropropane	<0.005		
trans-1,3-Dichloropropene	<0.005		
Trichloroethene	<0.005		
Dibromochloromethane	<0.005		
1,1,2-Trichloroethane	<0.005		

FREE-COL LABORATORIES, INC.
P.O. BOX 867,COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-8242
FAX: (814) 333-1466

5815 AIRPORT ROAD
ROANOKE, VIRGINIA 24012
PHONE: (703) 265-2544
FAX: (703) 362-1663

10/19/95

TO:
DELPHI HARRISON THRM.SYS
ATTN: MS. CATHY VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094

P.O. # HH48888

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

SAMPLE ID : TRIP BLANK
10/11/95

LAB ID 51011530
DATE RECEIVED: 10/11/95

PARAMETER	RESULTS	UNITS	DATE AND ANALYST
VOLATILE COMPOUNDS Continued			
Benzene	<0.005	MG/L	10/17/95 ECKLUND/
cis-1,3-Dichloropropene	<0.005		MAJOR
2-Chloroethylvinyl ether	<0.010		
Bromoform	<0.005		
2-Hexanone	<0.050		
4-Methyl-2-pentanone	<0.050		
Tetrachloroethene	<0.005		
Toluene	<0.005		
Chlorobenzene	<0.005		
Ethylbenzene	<0.005		
Styrene	<0.005		
Total Xylenes	<0.005		

***EPA Methods 601 and 624 and SW 846 Methods 8010 and 8240 do not differentiate the co-eluting cis and trans-1,2-dichloroethenes. The result reported is the sum of both compounds.

Volatile Compounds - Method 8240A
"Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", SW-846, Third Edition, U.S. Environmental Protection Agency. Revised 1986.

FREE-COL LABORATORIES, INC.
P.O. Box 357, Cotton Road
Meadville, Pennsylvania 16335-0557
Phone: Area Code 814/724-8242
FAX: Area Code 814/333-1486

ENVIRONMENTAL
OCCUPATIONAL HEALTH
FOOD SCIENCE
SPECIALISTS

Unabbreviated Listing of Hazardous Substance List Compounds

VOLATILE COMPOUNDS

Chloromethane
Bromomethane
Vinyl Chloride
Chloroethane
Methylene Chloride
Acetone
Carbon Disulfide
1,1-Dichloroethene
1,1-Dichloroethane
1,2-Dichloroethylenes (Total)***
Chloroform
1,2-Dichloroethane
2-Butanone
1,1,1-Trichloroethane
Carbon Tetrachloride
Vinyl Acetate
Ethyl Benzene
Styrene
Total Xylenes

Bromodichloromethane
1,1,2,2-Tetrachloroethane
1,2-Dichloropropane
trans-1,3-Dichloropropene
Trichloroethene
Dibromochloromethane
1,1,2-Trichloroethane
Benzene
cis-1,3-Dichloropropene
2-Chloroethyl Vinyl Ether
Bromoform
2-Hexanone
4-Methyl-2-pentanone
Tetrachloroethene
Toluene
Chlorobenzene

***EPA Methods 601 and 624 and SW 846 Methods 8010 and 8240 do not differentiate the co-eluting cis and trans-1,2-dichloroethenes. The result reported to you is the sum of both compounds.

FREE-COL LABORATORIES, INC.

P.O. BOX 857,COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-8242
FAX: (814) 333-1468

5815 AIRPORT ROAD
ROANOKE, VIRGINIA 24012
PHONE: (703) 265-2544
FAX: (703) 362-1663

TO:

ANALYTICAL REPORT FORM

CODE B: This analyte was detected in the associated blank as well as in the sample. It indicates possible/probable contamination. The data user may subtract the blank value at his/her discretion.

CODE D: Detection limit change due to a dilution.

CODE R: The percent recovery on the spiked sample associated with this sample was not within the acceptance limits of 75% - 125%

CODE S: This result was obtained by Method of Standard Additions.

CODE NA: Not Applicable

CODE ND: Not Detectable

PRC: Preparation Reference Control

VOID: The sample plus spike concentration exceeded the linear range of the standard curve.

CODE Q: Values for parameters quantified in this sample have been adjusted for recoveries of the analytical matrix spike. The adjustments have been based on the matrix recoveries from this sample. Adjusted values are not given where sample values were less than the detection limit or where spike recoveries are equal to 100%

CODE J: This result is an estimated value. It indicates that the compound meets the mass spectral data identification criteria. The result is less than the quantitation limit.

ENVIRONMENTAL SAMPLE DESCRIPTION AND CHAIN OF CUSTODY RECORD

ATTACHMENT #2

DATE: 10/11/95

RESULTS REQUIRED BY: _____

VERBAL RESULTS NEEDED? _____

LABORATORY: Free-Col Labs

HARRISON DIVISION, GMC
200 UPPER MOUNTAIN ROAD
LOCKPORT, NEW YORK 14094
PHONE: (716) ~~439~~ 685-2300
CONTACT: Steve Blair

TYPE: 1) WASTEWATER 2) DRINKING WATER (3) MONITORING WELL 4) SOIL
CLB) 5) SLUDGE 6) SOLID WASTE 7) OIL 8) INDUSTRIAL HYGIENE
9) OTHER _____

DESCRIPTION: Note: Please test samples in the following order:
B MW-3, MW-4, MW-2, MW-5, MW-6 then [redacted] MW-1

IPLE #	LOCATION	TIME	PARAMETERS	SAMPLE BOTTLE LOT # (OPTIONAL)
10/11/95	MW-3	8:20	SW846 Method 8240	3
	MW-4	8:25		3
	MW-2	8:30		3
	MW-5	8:35		3
	MW-6	8:40		3
	MW-1 [redacted]	8:45		3
	Trip Blank			2

UM DETECTION LEVELS REQUIRED? _____

IBLE INTERFERENCES: _____

ON FOR TEST (COMPARISON OF AREAS, BACKGROUND, ETC.) _____

TLES RECEIVED BY: (DATE/TIME) [HRD PERSONNEL] Stephen Blair 10/11/95

BOTTLES RELINQUISHED BY: (DATE/TIME) [HRD PERSONNEL]

TLES RELINQUISHED BY: (DATE/TIME) [HRD PERSONNEL] Stephen Blair 10/11/95

BOTTLES RECEIVED BY: (DATE/TIME) [LAB PERSONNEL] Thomas J. Mullyon

SAMPLE COLLECTED BY: Stephen Blair 10/11/95

RECEIVED BY: [DATE, TIME, LAB SIGNATURE] Darlene K. Swoggen 10/11/95 14:25

FREE-COL LABORATORIES, INC.
P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

01/19/96

TO:
DELPHI HARRISON THRM.SYS
ATTN: MS. CATHY VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094-1896

P.O. # HH48938

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER	SAMPLE ID :	MW-3D 01/16/96	TRIP BLANK 01/15/96
	LAB ID	60117049	60117050
	DATE RECEIVED:	01/17/96	01/17/96
VOLATILE COMPOUNDS	UNITS = MG/L		
CHLOROMETHANE		<0.010	<0.010
BROMOMETHANE		<0.010	<0.010
VINYL CHLORIDE		<0.010	<0.010
CHLOROETHANE		<0.010	<0.010
METHYLENE CHLORIDE		<0.005	<0.005
ACETONE		<0.10	<0.10
CARBON DISULFIDE		<0.005	<0.005
1,1,-DICHLOROETHENE		<0.005	<0.005
1,1,-DICHLOROETHANE		<0.005	<0.005
1,2-DICHLORO***		<0.005	<0.005
CHLOROFORM		<0.005	0.023
1,2-DICHLOROETHANE		<0.005	<0.005
2-BUTANONE		<0.10	<0.10
1,1,1-TRICHLOROETHA*		<0.005	<0.005
CARBON TETRACHLORIDE		<0.005	<0.005
VINYL ACETATE		<0.050	<0.050
BROMODICHLOROMETHANE		<0.005	0.011
1,1,2,2-TETRACHLORO*		<0.005	<0.005
1,2-DICHLOROPROPANE		<0.005	<0.005
TRANS-1,3-DICHLOROP*		<0.005	<0.005
TRICHLOROETHENE		<0.005	<0.005
DIBROMOCHLOROMETHANE		<0.005	<0.005
1,1,2-TRICHLOROETHA*		<0.005	<0.005
BENZENE		<0.005	<0.005
CIS-1,3-DICHLOROPRO*		<0.005	<0.005

*Some of the above names have been abbreviated. Please reference the enclosed list for their complete names.

FREE-COL LABORATORIES, INC.
P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

01/19/96

TO:

DELPHI HARRISON THRM.SYS
ATTN: MS. CATHY VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094-1896

P.O. # HH48938

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER	SAMPLE ID :	MW-3D	TRIP BLANK
		01/16/96	01/15/96
	LAB ID	60117049	60117050
	DATE RECEIVED:	01/17/96	01/17/96
VOLATILE COMPOUNDS (Cont.)	UNITS = MG/L		
2-CHLOR* VINYL ETHER		<0.010	<0.010
BROMOFORM		<0.005	<0.005
2-HEXANONE		<0.050	<0.050
4-METHYL-2-PENTANONE		<0.050	<0.050
TETRACHLOROETHENE		<0.005	<0.005
TOLUENE		<0.005	<0.005
CHLOROBENZENE		<0.005	<0.005
ETHYL BENZENE		<0.005	<0.005
STYRENE		<0.005	<0.005
TOTAL XYLENES		<0.005	<0.005

DATE AND ANALYST
01/18/96 ECKLUND/MAJOR

*Some of the above names have been abbreviated. Please reference the enclosed list for their complete names.

FREE-COL LABORATORIES, INC.
P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

01/19/96

TO:
DELPHI HARRISON THRM.SYS
ATTN: MS. CATHY VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094-1896

P.O. # HH48938

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

SAMPLE ID : MW-3D
01/16/96

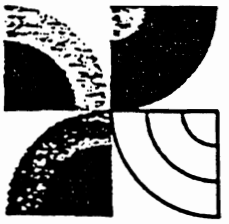
LAB ID 60117049
DATE RECEIVED: 01/17/96

PARAMETER	RESULTS	UNITS	DATE AND ANALYST
Specific Conductance	13,800	UMHOS/CM	01/19/96 ARNETT

pc: GZA GEOENVIRONMENTAL
STEVE BLAIR

Andrew K. Ecklund
ASST. LABORATORY DIRECTOR

FREE-COL LABORATORIES, INC.
P.O. Box 557, Cotton Road
Meadville, Pennsylvania 16335-0557
Phone: Area Code 814/724-6242
FAX: Area Code 814/333-1466



ENVIRONMENTAL
OCCUPATIONAL HEALTH
FOOD SCIENCE
SPECIALISTS

Unabbreviated Listing of Hazardous Substance List Compounds

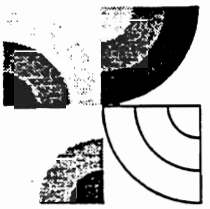
VOLATILE COMPOUNDS

Chloromethane
Bromomethane
Vinyl Chloride
Chloroethane
Methylene Chloride
Acetone
Carbon Disulfide
1,1-Dichloroethene
1,1-Dichloroethane
1,2-Dichloroethylenes (Total)***
Chloroform
1,2-Dichloroethane
2-Butanone
1,1,1-Trichloroethane
Carbon Tetrachloride
Vinyl Acetate
Ethyl Benzene
Styrene
Total Xylenes

Bromodichloromethane
1,1,2,2-Tetrachloroethane
1,2-Dichloropropane
trans-1,3-Dichloropropene
Trichloroethene
Dibromochloromethane
1,1,2-Trichloroethane
Benzene
cis-1,3-Dichloropropene
2-Chloroethyl Vinyl Ether
Bromoform
2-Hexanone
4-Methyl-2-pentanone
Tetrachloroethene
Toluene
Chlorobenzene

***EPA Methods 601 and 624 and SW 846 Methods 8010 and 8240 do not differentiate the co-eluting cis and trans-1,2-dichloroethenes. The result reported to you is the sum of both compounds.

FREE-COL LABORATORIES, INC.
P.O. Box 557, Cotton Road
Meadville, Pennsylvania 16335-0557
Phone: Area Code 814/724-6242
FAX: Area Code 814/333-1466



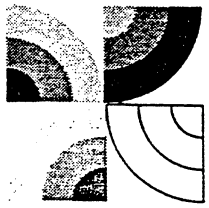
ENVIRONMENTAL
OCCUPATIONAL HEALTH
FOOD SCIENCE
SPECIALISTS

QUALITY CONTROL INFORMATION

Free-Col Laboratories analyzes control samples at specified frequencies during the analyses for the purpose of evaluating and documenting the precision and accuracy of the results. The attached quality control data, prepared at the time of analysis, reflect the results obtained for the various types of controls from the batch of samples described as follows:

General Motors Sample Identification	Free-Col ID
MW-3D 01/16/96	60117049
TRIP BLANK 01/15/96	60117050

FREE-COL LABORATORIES, INC.
P.O. Box 557, Cotton Road
Meadville, Pennsylvania 16335-0557
Phone: Area Code 814/724-6242
FAX: Area Code 814/333-1466



ENVIRONMENTAL
OCCUPATIONAL HEALTH
FOOD SCIENCE
SPECIALISTS

DELPHI HARRISON THRM. SYS.
GENERAL MOTORS CORPORATION

MW-3D

SAMPLE DATE: 01/30/96
P.O.# HH48938

FREE-COL LABORATORIES, INC.

P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

02/05/96

TO:

DELPHI HARRISON THRM.SYS
ATTN: MS. CATHY VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094-1896

P.O. # HH48938

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER	SAMPLE ID :	MW-3D	TRIP BLANK
		01/30/96	01/15/96
	LAB ID	60131409	60131410
	DATE RECEIVED:	01/31/96	01/31/96
VOLATILE COMPOUNDS	UNITS = MG/L		
CHLOROMETHANE		<0.010	<0.010
BROMOMETHANE		<0.010	<0.010
VINYL CHLORIDE		<0.010	<0.010
CHLOROETHANE		<0.010	<0.010
METHYLENE CHLORIDE		<0.005	<0.005
ACETONE		<0.10	<0.10
CARBON DISULFIDE		<0.005	<0.005
1,1,-DICHLOROETHENE		<0.005	<0.005
1,1,-DICHLOROETHANE		<0.005	<0.005
1,2-DICHLORO***		<0.005	<0.005
CHLOROFORM		<0.005	0.025
1,2-DICHLOROETHANE		<0.005	<0.005
2-BUTANONE		<0.10	<0.10
1,1,1-TRICHLOROETHA*		<0.005	<0.005
CARBON TETRACHLORIDE		<0.005	<0.005
VINYL ACETATE		<0.050	<0.050
BROMODICHLOROMETHANE		<0.005	0.010
1,1,2,2-TETRACHLORO*		<0.005	<0.005
1,2-DICHLOROPROPANE		<0.005	<0.005
TRANS-1,3-DICHLOROP*		<0.005	<0.005
TRICHLOROETHENE		<0.005	<0.005
DIBROMOCHLOROMETHANE		<0.005	<0.005
1,1,2-TRICHLOROETHA*		<0.005	<0.005
BENZENE		<0.005	<0.005
CIS-1,3-DICHLOROPRO*		<0.005	<0.005

*Some of the above names have been abbreviated. Please reference the enclosed list for their complete names.

FREE-COL LABORATORIES, INC.
P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

02/05/96

TO:
DELPHI HARRISON THRM.SYS
ATTN: MS. CATHY VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094-1896

P.O. # HH48938

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER	SAMPLE ID :	MW-3D	TRIP BLANK
		01/30/96	01/15/96
	LAB ID	60131409	60131410
	DATE RECEIVED:	01/31/96	01/31/96
VOLATILE COMPOUNDS (Cont.)	UNITS = MG/L		
2-CHLOR* VINYL ETHER		<0.010	<0.010
BROMOFORM		<0.005	<0.005
2-HEXANONE		<0.050	<0.050
4-METHYL-2-PENTANONE		<0.050	<0.050
TETRACHLOROETHENE		<0.005	<0.005
TOLUENE		<0.005	<0.005
CHLOROBENZENE		<0.005	<0.005
ETHYL BENZENE		<0.005	<0.005
STYRENE		<0.005	<0.005
TOTAL XYLENES		<0.005	<0.005

Volatile Compounds - Method 8240A
"Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", SW-846, Third Edition, U.S. Environmental Protection Agency. Revised 1986.

DATE AND ANALYST
02/01/96 MAJOR

Andrew K. Ecklund
ASST. LABORATORY DIRECTOR

*Some of the above names have been abbreviated. Please reference the enclosed list for their complete names.

pc: Mr. Steve Blair, GZA

CHAIN OF CUSTODY RECORD

FREE-COL LABORATORIES, INC.

P.O. BOX 557 — 800 836 - 4130
COTTON ROAD — 814 724 - 6242
MEADVILLE, PA — 814 333 - 1466 Fax
16335-0557

1 CLIENT INFORMATION			
COMPANY	GZA GeoEnvironmental		
CONTACT	Steve Blair		
ADDRESS	364 Nagel Drive		
CITY	Buffalo		
STATE	NY	ZIP CODE	14225
PHONE	(716)685-2300	FAX	(716)685-3629
PURCHASE ORDER NUMBER			
CLIENT NUMBER			

2 TYPE	MISC.
Wastewater	TCLP SPIKE YES NO
Monitoring Well X	
Drinking Water	SPIKE YES NO
PWS #	
NPDES / SPDES	METHODS YES NO
Solid Waste	
I. H.	QA/QC YES NO
Other	

3 PROJECT NAME / NUMBER	
DELPHI THERMAL	
4 SAMPLER'S NAME / DATE	
BART A. KLETTKE	1-30-96

5 SAMPLE INFORMATION

	DATE	TIME	SAMPLE ID	TYPE	GRAB/COMP	ANALYSIS REQUESTED / COMMENTS
1	1/30/96	09:45	MW-3D	Water	Grab	Volatiles 8240 ; 2-40 mil Vials
2	/ /96	:	Trip Blank	DI Water		Trip Blank
3	/ /96	:				
4	/ /96	:				
5	/ /96	:				
6	/ /96	:	* Please Test ASAP			
7	/ /96	:				
8	/ /96	:				
9	/ /96	:				
10	/ /96	:				
11	/ /96	:				
12	/ /96	:				
13	/ /96	:				
14	/ /96	:				

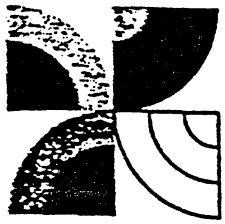
6 SAMPLE TRACABILITY

	Received	SIGNATURE	ORGANIZATION	Relinquished
1	1/30/96	Bart A. Klettke	GZA	1/30/96
2	1/30/96	Thomas J. Mullaghern	Free-Col	1/31/96
3	1/31/96	William F. Slattery	Free Col	1/31/96
4	1/31/96	Jeni Watt	Free Col	1/31/96
5	/ /96	Andrew Eckblad	Fnelol	2/6/96
6	/ /96			/ /96
7	/ /96			/ /96

USE BY LABORATORY ONLY

	Date	Time
Samples rec. at lab	1/31/96	17:15
Means of del. to lab	Tech Service	
Sample cooler temp. upon receipt	5 (deg. C)	
Sample check in started	1-31-96	
Sample check in completed	2	
Samples refrigerated upon receipt at lab	(Yes)	No
Samples refrigerated upon receipt from client	(Yes)	No

FREE-COL LABORATORIES, INC.
P.O. Box 557, Cotton Road
Meadville, Pennsylvania 16335-0557
Phone: Area Code 814/724-6242
FAX: Area Code 814/333-1466



ENVIRONMENTAL
OCCUPATIONAL HEALTH
FOOD SCIENCE
SPECIALISTS

Unabbreviated Listing of Hazardous Substance List Compounds

VOLATILE COMPOUNDS

Chloromethane

Bromomethane

Vinyl Chloride

Chloroethane

Methylene Chloride

Acetone

Carbon Disulfide

1,1-Dichloroethene

1,1-Dichloroethane

1,2-Dichloroethylenes (Total)***

Chloroform

1,2-Dichloroethane

2-Butanone

1,1,1-Trichloroethane

Carbon Tetrachloride

Vinyl Acetate

Ethyl Benzene

Styrene

Total Xylenes

Bromodichloromethane

1,1,2,2-Tetrachloroethane

1,2-Dichloropropane

trans-1,3-Dichloropropene

Trichloroethene

Dibromochloromethane

1,1,2-Trichloroethane

Benzene

cis-1,3-Dichloropropene

2-Chloroethyl Vinyl Ether

Bromoform

2-Hexanone

4-Methyl-2-pentanone

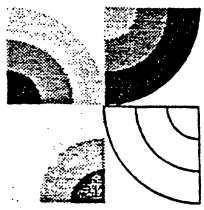
Tetrachloroethene

Toluene

Chlorobenzene

***EPA Methods 601 and 624 and SW 846 Methods 8010 and 8240 do not differentiate the co-eluting cis and trans-1,2-dichloroethenes. The result reported to you is the sum of both compounds.

FREE-COL LABORATORIES, INC.
P.O. Box 557, Cotton Road
Meadville, Pennsylvania 16335-0557
Phone: Area Code 814/724-6242
FAX: Area Code 814/333-1466



ENVIRONMENTAL
OCCUPATIONAL HEALTH
FOOD SCIENCE
SPECIALISTS

QUALITY CONTROL INFORMATION

Free-Col Laboratories analyzes control samples at specified freguencies during the analyses for the purpose of evaluating and documenting the precision and accuracy of the results. The attached quality control data, prepared at the time of analysis, reflect the results obtained for the various types of controls from the batch of samples described as follows:

General Motors Sample Identification	Free-Col ID
MW-3D 01/30/96	60131409
TRIP BLANK 01/15/96	60131410

Limits in effect as of May 18, 1995

FREE-COL LABORATORIES, INC.
VOA SPIKED CONTROL INFORMATION
(CLP - ANALYTICAL SPIKED SAMPLE LIMITS)

Date 2-1-96 Analyst Eklund / Majer

Samples associated with this spiked control:
602-01-400
601-31-409/410
601-31-074

Sample used as spiked control: 601-31-409

PARAMETER	SPIKE ADDED UG/L	SPIKED RESULT UG/L	SAMPLE RESULT UG/L	ACCEPT. LIMITS % REC.	ASSYD % REC.	FILE
Chloromethane	20	16.1	<10	28-189	80	520
Bromomethane	20	15.4		31-212	77	519
Vinyl chloride	20	14.0		22-185	70	528
Chloroethane	20	17.0		52-170	85	507
Methylene chloride	20	27.0	<5	63-148	135	521
Acrolein	62	—	—	22-185	—	500
Acrylonitrile	58	—	—	53-187	—	501
1,1-Dichloroethene	20	16.2	<5	50-158	81	513
1,1-Dichloroethane	20	17.9		73-141	90	511
~~trans~~-1,2-Dichloroethene	20	18.8		63-151	94	514
Chloroform	20	19.4		68-141	97	509
1,2-Dichloroethane	20	20.0		52-157	100	512
1,1,1-Trichloroethane	20	18.9		58-155	94	525
Carbon tetrachloride	20	21.3		40-141	106	504
Bromodichloromethane	20	18.9		46-150	94	510
1,2-Dichloropropane	20	19.2		67-145	96	515
trans-1,3-Dichloropropene	20	17.4		56-141	87	517
Trichloroethene	20	19.7		64-129	98	527
Benzene	20	21.3		70-144	106	502
Dibromochloromethane	20	17.3		27-158	86	506
1,1,2-Trichloroethane	20	19.4		59-149	97	526
cis-1,3-Dichloropropene	20	18.0		46-151	90	516
2-Chloroethyl vinyl ether	20	16.6	<10	4-186	83	508
Bromoform	20	16.4	<5	6-150	82	503
Tetrachloroethene	20	18.6		48-163	93	523
1,1,2,2-Tetrachloroethane	20	17.4		46-164	87	522
Toluene	20	19.4		72-131	97	524
Chlorobenzene	20	18.9		70-131	94	505
Ethyl benzene	20	18.5		61-140	92	518
1,3-Dichlorobenzene	26	—	—	58-163	—	530
1,2-Dichlorobenzene	26	—	—	42-159	—	529
1,4-Dichlorobenzene	20	—	—	33-177	—	531
Diethyl Benzene	44	—	—	71-137	—	533
Ethyl Ether	35	—	—	62-160	—	532
Xylenes	44	39.8	<5	72-130	90	534
MEK	20	18.9	<100	63-179	94	536

Limits in effect as of May 18, 1993

FREE-COL LABORATORIES, INC.
VOA SPIKED CONTROL INFORMATION
(CLP - ANALYTICAL SPIKED SAMPLE LIMITS)

Date 2-1-91 Analyst Eckland/Major

Samples associated with this spiked control:
602-01-400
601-31-409/410
601-31-074

Sample used as spiked control: 601-31-409

PARAMETER	SPIKE ADDED UG/L	SPIKED RESULT UG/L	SAMPLE RESULT UG/L	ACCEPT. LIMITS % REC.	ASSYD % REC.	FILE
Acetone	20	23.8	<100	51-175	119	538
MIBK	20	16.9	<50	53-160	84	539
Ethyl Acetate	45	—	—	71-140	—	535
Tetrahydrofuran	45	—	—		—	
Carbondisulfide	20	18.1	<5		90	
Styrene	20	18.8	<5		94	
Vinyl Acetate	20	20.0	<50		100	
Amyl Acetate	44	—	—		—	
Methyl Butyl Ketone	20	17.0	<50		85	

FREE-COL LABORATORIES, INC.
VOA BLANK INFORMATION
(CLP - CALIBRATION BLANK LIMITS)

Date 2-1-96 Analyst Ecklund/Major

Samples associated with this blank:
602-01-400
601-31-409/410
601-31-074

Parameter	Blank Value
Units = ug/L	
Chloromethane	<10
Bromomethane	↓
Vinyl chloride	↓
Chloroethane	↓
Methylene chloride	<5
Acrolein	—
Acrylonitrile	—
1,1-Dichloroethene	<5
1,1-Dichloroethane	↓
~~trans~~-1,2-Dichloroethenes	↓
Chloroform	↓
1,2-Dichloroethane	↓
1,1,1-Trichloroethane	↓
Carbon tetrachloride	↓
Bromodichloromethane	↓
1,2-Dichloropropane	↓
trans-1,3-Dichloropropene	↓
Trichloroethene	↓
Benzene	↓
Dibromochloromethane	↓
1,1,2-Trichloroethane	↓
cis-1,3-Dichloropropene	↓
2-Chloroethyl vinyl ether	<10
Bromoform	<5
Tetrachloroethene	↓
1,1,2,2-Tetrachloroethane	↓
Toluene	↓
Chlorobenzene	↓
Ethyl benzene	↓
1,3-Dichlorobenzene	—
1,2-Dichlorobenzene	—
1,4-Dichlorobenzene	—
Xylene	<5
2-Butanone - MEK	<100
4-Methyl-2-pentanone	<50
Acetone	<100
Syrene	<5

FREE-COL LABORATORIES, INC.
VOA BLANK INFORMATION
(CLP - CALIBRATION BLANK LIMITS)

Date 2-1-96 Analyst Ecklund/Majer

Samples associated with this blank:
6002-01-400
6001-31-409/410

Parameter	Blank Value
Units = ug/L	
Carbon Disulfide	<5
Vinyl Acetate	<50
2-Hexanone - MBK	<50
Dichlorofluoromethane	
1,1,1,2-Tetrachloroethane	
Trichlorofluoromethane	
1,2,3-Trichloropropane	
3-Chloro-1-propene	
1,2-Dibrmomethane	
cis,1,2-Dichloroethene	

Limits in effect as of May 18, 1995

FREE-COL LABORATORIES, INC.
VOA REPEAT CONTROL INFORMATION
(CLP - DUPLICATE SAMPLE LIMITS)

Date 2-1-96 Analyst Eklund / Major

Samples associated with this repeat control:
602-01-400
601-31-409/410
601-31-074

Sample used as repeat control: 601-31-409

AD = Absolute Difference RPD = Relative Percent Difference

Units = ug/L

Parameter	Samp. Value	Repeat Value	Accept AD	Accept RPD	Assayd AD/RPD	File
Chloromethane	<10	<10			Ø	820
Bromomethane						819
Vinyl chloride				27		828
Chloroethane						807
Methylene chloride	<5	<5		17		821
Acrolein	—	—			—	800
Acrylonitrile	—	—			—	801
1,1-Dichloroethene	<5	<5			Ø	813
1,1-Dichloroethane				41		811
~~trans~~-1,2-Dichloroethenes				28		814
Chloroform				14		809
1,2-Dichloroethane						812
1,1,1-Trichloroethane				27		825
Carbon tetrachloride						804
Bromodichloromethane				79		810
1,2-Dichloropropane						815
trans-1,3-Dichloropropene						817
Trichloroethene				32		827
Benzene				49		802
Dibromochloromethane				70		806
1,1,2-Trichloroethane						826
cis-1,3-Dichloropropene						816
2-Chloroethyl vinyl ether	<10	<10				808
Bromoform	<5	<5				803
Tetrachloroethene				33		823
1,1,2,2-Tetrachloroethane						822
Toluene				38		824
Chlorobenzene				24		805
Ethyl benzene				5		818
1,3-Dichlorobenzene	—	—			—	830
1,2-Dichlorobenzene	—	—			—	829
1,4-Dichlorobenzene	—	—		36	—	831
Acetone	<100	<100		26	Ø	836

Limits in effect as of May 18, 1995

FREE-COL LABORATORIES, INC.
VOA REPEAT CONTROL INFORMATION
(CLP - DUPLICATE SAMPLE LIMITS)

Date 2-1-96 Analyst Echlund / Majer

Samples associated with this repeat control:
602-01-400
601-31-409/410

Sample used as repeat control: 601-31-409

AD = Absolute Difference RPD = Relative Percent Difference

Parameter	Samp. Value	Repeat Value	Accept AD	Accept RPD	Assayd AD/RPD	File
Units = ug/L						
3-Chloro-1-propene						
Dichlorodifluoromethane						
Methyl Ethyl Ketone	<100	<100			Ø	
MIBK	<50	<50			Ø	
1,1,1,2-Tetrachloroethane						
Trichlorofluoromethane						
1,2,3-Trichloropropane						
1,2-Dibromomethane						
Cis-1,2-Dichloroethane						
Xylene	<5	<5			Ø	
Styrene	<5	<5				
Carbon Disulfide	<5	<5				
Methyl Butyl Ketone	<50	<50				
Vinyl Acetate	<50	<50				

Limits in effect as of May 18, 1995

FREE-COL LABORATORIES, INC.
VOA REFERENCE CONTROL INFORMATION
(CLP - CALIBRATION VERIFICATION LIMITS)

Date 2-1-96 Analyst Ecklund/Major
Samples associated with this reference control:

601-31-409/410
601-31-074
602-01-400

Parameter	Target Value ug/L	Acceptance Limits ug/L	Assayed Value ug/L*	File#
Chloromethane	20	5.4-34.5	22.8	223
Bromomethane	20	8.1-39.8	17.7	222
Vinyl chloride	20	1.3-42.4	16.6	232
Chloroethane	20	4.0-36.9	16.3	209
Methylene chloride	20	11.5-31.4	18.6	224
Acrolein	62	4.2-105.4	-	201
Acrylonitrile	58	13.2-116.0	-	202
1,1-Dichloroethene	20	10.9-32.4	19.6	216
1,1-Dichloroethane	20	15.3-28.0	19.5	214
~~trans~~-1,2-Dichloroethenes	20	13.6-28.3	21.2	217
Chloroform	20	15.5-26.2	20.2	211
1,2-Dichloroethane	20	7.5-34.5	17.1	215
1,1,1-Trichloroethane	20	13.6-29.8	20.9	228
Carbon tetrachloride	20	7.7-28.1	20.3	206
Bromodichloromethane	20	9.7-30.1	18.6	212
1,2-Dichloropropane	20	15.2-28.0	19.9	218
trans-1,3-Dichloropropene	20	12.7-25.6	16.6	220
Trichloroethene	20	14.0-27.3	20.6	230
Benzene	20	14.2-28.1	17.0	203
Dibromochloromethane	20	4.1-29.5	17.2	208
1,1,2-Trichloroethane	20	14.2-28.5	19.4	229
cis-1,3-Dichloropropene	20	10.1-27.2	18.4	219
2-Chloroethyl vinyl ether	20	9.9-32.5	20.2	210
Bromoform	20	2.3-31.1	15.3	205
Tetrachloroethene	20	13.0-28.7	20.6	226
1,1,2,2-Tetrachloroethane	20	14.7-26.1	17.0	225
Toluene	20	15.1-25.7	20.3	227
Chlorobenzene	20	11.1-28.9	19.6	207
Ethyl benzene	20	13.2-27.7	20.2	221
1,3-Dichlorobenzene	26	18.2-36.9	-	234
1,2-Dichlorobenzene	26	11.0-42.2	-	233
1,4-Dichlorobenzene	20	3.0-36.1	-	235
Diethyl Benzene	44	25.9-62.9	-	237
Ethyl Ether	35	26.9-49.4	-	236
Xylenes	44	21.0-66.7	41.5	238
MEK	20	9.1-39.4	15.2	240
Acetone	20	9.6-38.0	13.9	242

Limits in effect as of May 18, 1995

FREE-COL LABORATORIES, INC.
VOA REFERENCE CONTROL INFORMATION
(CLP - CALIBRATION VERIFICATION LIMITS)

Date 2-1-96 Analyst Ecklund/Mejia

Samples associated with this reference control:

601-31-409/410
602-01-400

Parameter	Target Value ug/L	Acceptance Limits ug/L	Assayed Value ug/L	File#
MIBK	20	14.0-29.7	17.1	243
Tetrahydrofuran	45	34.8-60.3	—	244
Carbondisulfide	20	11.0-30.4	20.8	245
Styrene	20	12.4-30.0	19.6	246
Vinyl Acetate	20	11.0-27.5	20.1	247
Amyl Acetate	44	14.7-64.6	—	248
Methyl Butyl Ketone	20	10.3-33.9	15.5	249

Free-Col Laboratories, Inc.
Surrogate Spike Information
Method 8260

...te: 2-1-96 Analyst: Ecklund / Major

...its: % Recovery

...ype: W = Low/Medium Water
S = Low/Medium Soil/Sediment

	Dibromofluoromethane	Toluene-d8	4-Bromofluoro-benzene
Limits:			
Water	86-118	88-110	86-115
Soil/Sediment	80-129	81-117	74-121

...ype (S/W)	Free-Col I.D.	Dibromofluoromethane	Toluene-d8	4-Bromofluoro-benzene
W	601-31-409	104	99	88
W	601-31-410	97	99	88
S	601-31-074	103	98	84
S	602-01-400	108	92	85

FREE-COL LABORATORIES, INC.
P.O. Box 557, Cotton Road
Meadville, Pennsylvania 16335-0557
Phone: Area Code 814/724-6242
FAX: Area Code 814/333-1466

ENVIRONMENTAL
OCCUPATIONAL HEALTH
FOOD SCIENCE
SPECIALISTS

DELPHI HARRISON THRM. SYS.
GENERAL MOTORS CORPORATION

MONITORING WELLS #3-8

SAMPLE DATES: 04/30/96
P.O.# HH48938

FREE-COL LABORATORIES, INC.
P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-8242
FAX: (814) 333-1466

05/13/96

TO:

DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094-1896

P.O. # HH48938

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER	SAMPLE ID :	MW-4	MW-5	MW-6	MW-3
		04/30/96	04/30/96	04/30/96	04/30/96
	LAB ID	60501416	60501417	60501418	60501419
	DATE RECEIVED:	05/01/96	05/01/96	05/01/96	05/01/96
VOLATILE COMPOUNDS	UNITS = MG/L				
CHLOROMETHANE		<1 D	<1 D	<1 D	<1 D
BROMOMETHANE		<1 D	<1 D	<1 D	<1 D
VINYL CHLORIDE		40	<1 D	3.4	2.6
CHLOROETHANE		<1 D	<1 D	<1 D	<1 D
METHYLENE CHLORIDE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
ACETONE		<10 D	<10 D	<10 D	<10 D
CARBON DISULFIDE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
1,1,-DICHLOROETHENE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
1,1,-DICHLOROETHANE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
1,2-DICHLORO***		170	0.7	5.3	310
CHLOROFORM		<0.5 D	<0.5 D	<0.5 D	<0.5 D
1,2-DICHLOROETHANE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
2-BUTANONE		<10 D	<10 D	<10 D	<10 D
1,1,1-TRICHLOROETHA*		<0.5 D	<0.5 D	<0.5 D	<0.5 D
CARBON TETRACHLORIDE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
VINYL ACETATE		<5 D	<5 D	<5 D	<5 D
BROMODICHLOROMETHANE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
1,1,2,2-TETRACHLORO*		<0.5 D	<0.5 D	<0.5 D	<0.5 D
1,2-DICHLOROPROPANE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
TRANS-1,3-DICHLOROP*		<0.5 D	<0.5 D	<0.5 D	<0.5 D
TRICHLOROETHENE		32	33	6.9	0.6
DIBROMOCHLOROMETHANE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
1,1,2-TRICHLOROETHA*		<0.5 D	<0.5 D	<0.5 D	<0.5 D
BENZENE		<0.5 D	<0.5 D	<0.5 D	3.4
CIS-1,3-DICHLOROPRO*		<0.5 D	<0.5 D	<0.5 D	<0.5 D

*Some of the above names have been abbreviated. Please reference the enclosed list for their complete names.

FREE-COL LABORATORIES, INC.
P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

05/13/96

TO:

DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094-1896

P.O. # HH48938

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER	SAMPLE ID :	MW-4	MW-5	MW-6	MW-3
		04/30/96	04/30/96	04/30/96	04/30/96
	LAB ID	60501416	60501417	60501418	60501419
	DATE RECEIVED:	05/01/96	05/01/96	05/01/96	05/01/96
VOLATILE COMPOUNDS (Cont.)	UNITS = MG/L				
2-CHLOR* VINYL ETHER		<1 D	<1 D	<1 D	<1 D
BROMOFORM		<0.5 D	<0.5 D	<0.5 D	<0.5 D
2-HEXANONE		<5 D	<5 D	<5 D	<5 D
4-METHYL-2-PENTANONE		<5 D	<5 D	<5 D	<5 D
TETRACHLOROETHENE		<0.5 D	27	57	<0.5 D
TOLUENE		<0.5 D	<0.5 D	<0.5 D	3.7
CHLOROBENZENE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
ETHYL BENZENE		<0.5 D	<0.5 D	<0.5 D	1.8
STYRENE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
TOTAL XYLENES		<0.5 D	<0.5 D	<0.5 D	3.4

Please reference the following page(s) for date and analyst.

*Some of the above names have been abbreviated. Please reference the enclosed list for their complete names.

FREE-COL LABORATORIES, INC.

P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

05/13/96

TO:

DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094-1896

P.O. # HH48938

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER	SAMPLE ID :	MW-7 04/30/96	MW-8 04/30/96	TRIP BLANK
	LAB ID	60501420	60501421	60501422
	DATE RECEIVED:	05/01/96	05/01/96	05/01/96
VOLATILE COMPOUNDS	UNITS = MG/L			
CHLOROMETHANE		<1 D	<1 D	<0.010
BROMOMETHANE		<1 D	<1 D	<0.010
VINYL CHLORIDE		1.8	2.1	<0.010
CHLOROETHANE		<1 D	<1 D	<0.010
METHYLENE CHLORIDE		<0.5 D	<0.5 D	<0.005
ACETONE		<10 D	<10 D	<0.10
CARBON DISULFIDE		<0.5 D	<0.5 D	<0.005
1,1,-DICHLOROETHENE		<0.5 D	<0.5 D	<0.005
1,1,-DICHLOROETHANE		<0.5 D	<0.5 D	<0.005
1,2-DICHLORO***		37	5.8	<0.005
CHLOROFORM		<0.5 D	<0.5 D	<0.005
1,2-DICHLOROETHANE		<0.5 D	<0.5 D	<0.005
2-BUTANONE		<10 D	<10 D	<0.10
1,1,1-TRICHLOROETHA*		<0.5 D	<0.5 D	<0.005
CARBON TETRACHLORIDE		<0.5 D	<0.5 D	<0.005
VINYL ACETATE		<5 D	<5 D	<0.050
BROMODICHLOROMETHANE		<0.5 D	<0.5 D	<0.005
1,1,2,2-TETRACHLORO*		<0.5 D	<0.5 D	<0.005
1,2-DICHLOROPROPANE		<0.5 D	<0.5 D	<0.005
TRANS-1,3-DICHLOROP*		<0.5 D	<0.5 D	<0.005
TRICHLOROETHENE		1,300	5.6	<0.005
DIBROMOCHLOROMETHANE		<0.5 D	<0.5 D	<0.005
1,1,2-TRICHLOROETHA*		<0.5 D	<0.5 D	<0.005
BENZENE		<0.5 D	<0.5 D	<0.005
CIS-1,3-DICHLOROPRO*		<0.5 D	<0.5 D	<0.005

*Some of the above names have been abbreviated. Please reference the enclosed list for their complete names.

FREE-COL LABORATORIES, INC.
P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-8242
FAX: (814) 333-1466

05/13/96

TO:
DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094-1896

P.O. # HH48938

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER	SAMPLE ID :	MW-7 04/30/96	MW-8 04/30/96	TRIP BLANK
	LAB ID	60501420	60501421	60501422
	DATE RECEIVED:	05/01/96	05/01/96	05/01/96
VOLATILE COMPOUNDS (Cont.)	UNITS = MG/L			
2-CHLOR* VINYL ETHER		<1 D	<1 D	<0.010
BROMOFORM		<0.5 D	<0.5 D	<0.005
2-HEXANONE		<5 D	<5 D	<0.050
4-METHYL-2-PENTANONE		<5 D	<5 D	<0.050
TETRACHLOROETHENE		<0.5 D	48	<0.005
TOLUENE		<0.5 D	<0.5 D	<0.005
CHLOROBENZENE		<0.5 D	<0.5 D	<0.005
ETHYL BENZENE		<0.5 D	<0.5 D	<0.005
STYRENE		<0.5 D	<0.5 D	<0.005
TOTAL XYLENES		<0.5 D	<0.5 D	<0.005

Volatile Compounds - Method 8240A
"Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", SW-846, Third Edition, U.S. Environmental Protection Agency. Revised 1986.

DATE AND ANALYST
05/08/96 ECKLUND/MAJOR

Andrew K. Ecklund
ASST. LABORATORY DIRECTOR

*Some of the above names have been abbreviated. Please reference the enclosed list for their complete names.

pc: Mr. Steve Blair, GZA

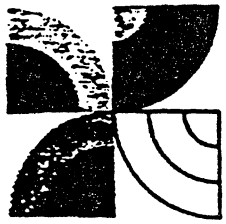
FREE-COL LABORATORIES, INC.
P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

TO:

ANALYTICAL REPORT FORM

CODE B:	This analyte was detected in the associated blank as well as in the sample. It indicates possible/probable contamination. The data user may subtract the blank value at his/her discretion.
CODE D:	Detection limit change due to a dilution.
CODE R:	The percent recovery on the spiked sample associated with this sample was not within the acceptance limits of 75% - 125%
CODE S:	This result was obtained by Method of Standard Additions.
CODE NA:	Not Applicable
CODE ND:	Not Detectable
PRC:	Preparation Reference Control
VOID:	The sample plus spike concentration exceeded the linear range of the standard curve.
CODE Q:	Values for parameters quantified in this sample have been adjusted for recoveries of the analytical matrix spike. The adjustments have been based on the matrix recoveries from this sample. Adjusted values are not given where sample values were less than the detection limit or where spike recoveries are equal to 100%
CODE J:	This result is an estimated value. It indicates that the compound meets the mass spectral data identification criteria. The result is less than the quantitation limit.

FREE-COL LABORATORIES, INC.
P.O. Box 557, Cotton Road
Meadville, Pennsylvania 16335-0557
Phone: Area Code 814/724-8242
FAX: Area Code 814/333-1466



ENVIRONMENTAL
OCCUPATIONAL HEALTH
FOOD SCIENCE
SPECIALISTS

Unabbreviated Listing of Hazardous Substance List Compounds

VOLATILE COMPOUNDS

Chloromethane

Bromomethane

Vinyl Chloride

Chloroethane

Methylene Chloride

Acetone

Carbon Disulfide

1,1-Dichloroethene

1,1-Dichloroethane

1,2-Dichloroethylenes (Total)***

Chloroform

1,2-Dichloroethane

2-Butanone

1,1,1-Trichloroethane

Carbon Tetrachloride

Vinyl Acetate

Bromodichloromethane

1,1,2,2-Tetrachloroethane

1,2-Dichloropropane

trans-1,3-Dichloropropene

Trichloroethene

Dibromochloromethane

1,1,2-Trichloroethane

Benzene

cis-1,3-Dichloropropene

2-Chloroethyl Vinyl Ether

Bromoform

2-Hexanone

4-Methyl-2-pentanone

Tetrachloroethene

Toluene

Chlorobenzene

Ethyl Benzene

Styrene

Total Xylenes

***EPA Methods 601 and 624 and SW 846 Methods 8010 and 8240 do not differentiate the co-eluting cis and trans-1,2-dichloroethenes. The result reported to you is the sum of both compounds.

FREE-COL LABORATORIES, INC.
P.O. Box 557, Cotton Road
Meadville, Pennsylvania 16335-0557
Phone: Area Code 814/724-8242
FAX: Area Code 814/333-1466

ENVIRONMENTAL
OCCUPATIONAL HEALTH
FOOD SCIENCE
SPECIALISTS

QUALITY CONTROL INFORMATION

Free-Col Laboratories analyzes control samples at specified frequencies during the analyses for the purpose of evaluating and documenting the precision and accuracy of the results. The attached quality control data, prepared at the time of analysis, reflect the results obtained for the various types of controls from the batch of samples described as follows:

General Motors Sample Identification	Free-Col ID
MW-4 04/30/96	60501416
MW-5 04/30/96	60501417
MW-6 04/30/96	60501418
MW-3 04/30/96	60501419
MW-7 04/30/96	60501420
MW-8 04/30/96	60501421
TRIP BLANK	60501422

Free-Col Laboratories, Inc.
Surrogate Spike Information
Method 8260

: 5/8/96
5/9/96

Analyst: Ecklund

s: % Recovery

e: W = Low/Medium Water
S = Low/Medium Soil/Sediment

	Dibromofluoromethane	Toluene-d_8	4-Bromofluoro-benzene
Limits:			
Water	86-118	88-110	86-115
Soil/Sediment	80-120	81-117	74-121

e (W)	Free-Col I.D.			
W	605-01-430	94	100	112
W	605-01-416	109	110	92
W	605-01-417	114	109	90
W	605-01-418	110	106	94
W	605-01-419	109	106	89
W	605-01-420	97	104	92
W	605-01-421	104	104	94
W	605-01-422	97	103	96

Limits in effect as of May 18, 1995

FREE-COL LABORATORIES, INC.
VOA SPIKED CONTROL INFORMATION
(CLP - ANALYTICAL SPIKED SAMPLE LIMITS)

Date 5-10-96 Analyst T. Lata / Eckland

Samples associated with this spiked control:

605-01-430 605-01-406/407
605-01-416 → 422
605-02-406/407

Sample used as spiked control: 605-02-040

PARAMETER	SPIKE ADDED UG/L	SPIKED RESULT UG/L	SAMPLE RESULT UG/L	ACCEPT. LIMITS % REC.	ASSYD % REC.	FILE
Chloromethane	20	16.5	<2	28-189	82 %	520
Bromomethane	20	22.9		31-212	114	519
Vinyl chloride	20	16.7		22-185	84	528
Chloroethane	20	18.3		52-170	92	507
Methylene chloride	20	24.4	↓	63-148	122	521
Acrolein	62	—	<10	22-185	—	500
Acrylonitrile	58	48.5	<10	53-187	84	501
1,1-Dichloroethene	20	16.2	<2	50-158	81	513
1,1-Dichloroethane	20	20.7		73-141	104	511
trans-1,2-Dichloroethene	20	18.4		63-151	92	514
Chloroform	20	23.6		68-141	118	509
1,2-Dichloroethane	20	23.2		52-157	116	512
1,1,1-Trichloroethane	20	19.9		58-155	100	525
Carbon tetrachloride	20	20.2		40-141	101	504
Bromodichloromethane	20	22.9		46-150	114	510
1,2-Dichloropropane	20	23.7		67-145	118	515
trans-1,3-Dichloropropene	20	21.4		56-141	107	517
Trichloroethene	20	23.9		64-129	120	527
Benzene	20	23.5		70-144	118	502
Dibromochloromethane	20	19.8		27-158	99	506
1,1,2-Trichloroethane	20	21.7		59-149	108	526
cis-1,3-Dichloropropene	20	21.6		46-151	108	516
2-Chloroethyl vinyl ether	20	23.0		4-186	115	508
Bromoform	20	18.6		6-150	93	503
Tetrachloroethene	20	19.1		48-163	96	523
1,1,2,2-Tetrachloroethane	20	24.2		46-164	121	522
Toluene	20	22.6		72-131	113	524
Chlorobenzene	20	21.3		70-131	106	505
Ethyl benzene	20	23.3		61-140	116	518
1,3-Dichlorobenzene	26	28.1		58-163	108	530
1,2-Dichlorobenzene	26	27.7		42-159	106	529
1,4-Dichlorobenzene	20	21.7	↓	33-177	108	531
Diethyl Benzene	44	—	—	71-137	—	533
Ethyl Ether	35	—	—	62-160	—	532
Xylenes	44	51.7	<2	72-130	118	534
MEK	20	23.1	<10	63-179	116	536

Limits in effect as of May 18, 1995

FREE-COL LABORATORIES, INC.
VOA REFERENCE CONTROL INFORMATION
(CLP - CALIBRATION VERIFICATION LIMITS)

Date 5-8-96 Analyst T. Latq / Eckelund

Samples associated with this reference control:

605-06-033 605-01-406/407
605-01-430
605-08-406/407 605-01-416 → 422

Parameter	Target Value ug/L	Acceptance Limits ug/L	Assayed Value ug/L	File#
Chloromethane	20	5.4-34.5	18.1	223
Bromomethane	20	8.1-39.8	21.6	222
Vinyl chloride	20	1.3-42.4	19.2	232
Chloroethane	20	4.0-36.9	19.8	209
Methylene chloride	20	11.5-31.4	20.8	224
Acrolein	62	4.2-105.4	55.3	201
Acrylonitrile	58	13.2-116.0	61.9	202
1,1-Dichloroethene	20	10.9-32.4	20.2	216
1,1-Dichloroethane	20	15.3-28.0	19.8	214
trans-1,2-Dichloroethene	20	13.6-28.3	20.4	217
Chloroform	20	15.5-26.2	20.3	211
1,2-Dichloroethane	20	7.5-34.5	20.3	215
1,1,1-Trichloroethane	20	13.6-29.8	20.9	228
Carbon tetrachloride	20	7.7-28.1	19.4	206
Bromodichloromethane	20	9.7-30.1	19.9	212
1,2-Dichloropropane	20	15.2-28.0	20.6	218
trans-1,3-Dichloropropene	20	12.7-25.6	19.8	220
Trichloroethene	20	14.0-27.3	20.4	230
Benzene	20	14.2-28.1	20.9	203
Dibromochloromethane	20	4.1-29.5	19.8	208
1,1,2-Trichloroethane	20	14.2-28.5	20.3	229
cis-1,3-Dichloropropene	20	10.1-27.2	19.6	219
2-Chloroethyl vinyl ether	20	9.9-32.5	20.4	210
Bromoform	20	2.3-31.1	19.4	205
Tetrachloroethene	20	13.0-28.7	19.9	226
1,1,2,2-Tetrachloroethane	20	14.7-26.1	21.5	225
Toluene	20	15.1-25.7	20.7	227
Chlorobenzene	20	11.1-28.9	20.3	207
Ethyl benzene	20	13.2-27.7	20.0	221
1,3-Dichlorobenzene	26	18.2-36.9	26.1	234
1,2-Dichlorobenzene	26	11.0-42.2	26.2	233
1,4-Dichlorobenzene	20	3.0-36.1	20.2	235
Diethyl Benzene	44	25.9-62.9	—	237
Ethyl Ether	35	26.9-49.4	—	236
Xylene	44	21.0-66.7	44.7	238
MEK	20	9.1-39.4	20.8	240
Acetone	20	9.6-38.0	20.9	242

Limits in effect as of May 18, 1995

FREE-COL LABORATORIES, INC.
VOA REFERENCE CONTROL INFORMATION
(CLP - CALIBRATION VERIFICATION LIMITS)

Date 5-8-96 Analyst T. Lotz / Eckelund

Samples associated with this reference control:

Parameter	Target Value ug/L	Acceptance Limits ug/L	Assayed Value ug/L	File#
MIBK	20	14.0-29.7	21.0	243
Tetrahydrofuran	45	34.8-60.3	—	244
Carbondisulfide	20	11.0-30.4	16.9	245
Styrene	20	12.4-30.0	20.0	246
Vinyl Acetate	20	11.0-27.5	17.6	247
Amyl Acetate	44	14.7-64.6	—	248
Methyl Butyl Ketone	20	10.3-33.9	21.2	249
Freon 113			29.6	
Dichlorofluoromethane			20.9	
Trichlorofluoromethane			20.3	

FREE-COL LABORATORIES, INC.
VOA BLANK INFORMATION
(CLP - CALIBRATION BLANK LIMITS)

Date 5/8/96 Analyst Ecklund

Samples associated with this blank:

605-06-033	605-01-406/407
605-01-416 → 422	605-01-430
605-01-406/1407	

Parameter	Blank Value
Units = ug/L	
Chloromethane	<2
Bromomethane	↓
Vinyl chloride	↓
Chloroethane	↓
Methylene chloride	↓
Acrolein	<10
Acrylonitrile	<10
1,1-Dichloroethene	<2
1,1-Dichloroethane	↓
trans-1,2-Dichloroethene	↓
Chloroform	↓
1,2-Dichloroethane	↓
1,1,1-Trichloroethane	↓
Carbon tetrachloride	↓
Bromodichloromethane	↓
1,2-Dichloropropane	↓
trans-1,3-Dichloropropene	↓
Trichloroethene	↓
Benzene	↓
Dibromochloromethane	↓
1,1,2-Trichloroethane	↓
cis-1,3-Dichloropropene	↓
2-Chloroethyl vinyl ether	↓
Bromoform	↓
Tetrachloroethene	↓
1,1,2,2-Tetrachloroethane	↓
Toluene	↓
Chlorobenzene	↓
Ethyl benzene	↓
1,3-Dichlorobenzene	↓
1,2-Dichlorobenzene	↓
1,4-Dichlorobenzene	↓
Xylene	<2
2-Butanone - MEK	<100
4-Methyl-2-pentanone	<50
Acetone	<100
Syrene	<2

FREE-COL LABORATORIES, INC.
VOA BLANK INFORMATION
(CLP - CALIBRATION BLANK LIMITS)

Date 5/8/96 Analyst Ecklund

Samples associated with this blank:

Parameter	Blank Value
Units = ug/L	
Carbon Disulfide	<5
Vinyl Acetate	<50
2-Hexanone - MBK	<50
Dichlorofluoromethane	—
1,1,1,2-Tetrachloroethane	—
Trichlorofluoromethane	<2
1,2,3-Trichloropropane	—
3-Chloro-1-propene	—
1,2-Dibrmomethane	—
cis,1,2-Dichloroethene	<2
Dichlorodifluoromethane	<2
Freon-113	<5

Limits in effect as of May 18, 1995

FREE-COL LABORATORIES, INC.
VOA REPEAT CONTROL INFORMATION
(CLP - DUPLICATE SAMPLE LIMITS)

Date 5/8/96 Analyst Ecklund

Samples associated with this repeat control:

605-06-033
605-01-406/407
605-01-416 → 422
605-01-430
605-08-406/407

Sample used as repeat control: 605-01-430

AD = Absolute Difference RPD = Relative Percent Difference

Units = mg/L

Parameter	Samp. Value	Repeat Value	Accept AD	Accept RPD	Assayd AD/RPD	File
Chloromethane	<0.02	<0.02			0%	820
Bromomethane						819
Vinyl chloride				27		828
Chloroethane						807
Methylene chloride				17		821
Acrolein	<0.1	<0.1				800
Acrylonitrile	<0.1	<0.1				801
1,1-Dichloroethene	<0.02	<0.02				813
1,1-Dichloroethane				41		811
trans-1,2-Dichloroethene				28		814
Chloroform				14		809
1,2-Dichloroethane						812
1,1,1-Trichloroethane	0.06	0.06		27	0%	825
Carbon tetrachloride	<0.02	<0.02			0%	804
Bromodichloromethane				79		810
1,2-Dichloropropane						815
trans-1,3-Dichloropropene						817
Trichloroethene				32		827
Benzene	0.03	0.03		49	0%	802
Dibromochloromethane	<0.02	<0.02		70	0%	806
1,1,2-Trichloroethane						826
cis-1,3-Dichloropropene						816
2-Chloroethyl vinyl ether						808
Bromoform						803
Tetrachloroethene				33		823
1,1,2,2-Tetrachloroethane						822
Toluene	0.22	0.21		38	4.6%	824
Chlorobenzene	<0.02	<0.02		24	0%	805
Ethyl benzene	0.02	0.02		5	0%	818
1,3-Dichlorobenzene	<0.02	<0.02			0%	830
1,2-Dichlorobenzene						829
1,4-Dichlorobenzene				36		831
Acetone	<0.1	<0.1		26		836

Limits in effect as of May 18, 1995

FREE-COL LABORATORIES, INC.
VOA REPEAT CONTROL INFORMATION
(CLP - DUPLICATE SAMPLE LIMITS)

Date 5/8/96 Analyst Eeklund
Samples associated with this repeat control:

Sample used as repeat control: 605-01-430
AD = Absolute Difference RPD = Relative Percent Difference

Parameter Units = mg/L	Samp. Value	Repeat Value	Accept AD	Accept RPD	Assayd File AD/RPD
3-Chloro-1-propene	—	—			
Dichlorodifluoromethane	<0.02	<0.02			0%
Methyl Ethyl Ketone	<1.0	<1.0			0%
MIBK	<0.5	<0.5			0%
1,1,1,2-Tetrachloroethane	—	—			
Trichlorofluoromethane	<0.02	<0.02			0%
1,2,3-Trichloropropane	—	—			
1,2-Dibromomethane	—	—			
Cis-1.2-Dichloroethane	<0.02	<0.02			0%
Xylene	0.06	0.07			15%
STYRENE	0.02	0.02			0%
Methyl Butyl Ketone	<0.50	<0.50			0%
Freon-113	<0.50	<0.50			0%

FREE-COL LABORATORIES, INC.
VOA BLANK INFORMATION
(CLP - CALIBRATION BLANK LIMITS)

Date 5/9/96 Analyst T. Lata / A. Ecklund

Samples associated with this blank:

605-01-430	605-01-406/407
605-01-416 → 422	
605-08-406/407	

Parameter	Blank Value
Units = µg/L	
Chloromethane	<2
Bromomethane	
Vinyl chloride	
Chloroethane	
Methylene chloride	
Acrolein	<10
Acrylonitrile	<10
1,1-Dichloroethene	<2
1,1-Dichloroethane	
trans-1,2-Dichloroethene	
Chloroform	
1,2-Dichloroethane	
1,1,1-Trichloroethane	
Carbon tetrachloride	
Bromodichloromethane	
1,2-Dichloropropane	
trans-1,3-Dichloropropene	
Trichloroethene	
Benzene	
Dibromochloromethane	
1,1,2-Trichloroethane	
cis-1,3-Dichloropropene	
2-Chloroethyl vinyl ether	
Bromoform	
Tetrachloroethene	
1,1,2,2-Tetrachloroethane	
Toluene	
Chlorobenzene	
Ethyl benzene	
1,3-Dichlorobenzene	
1,2-Dichlorobenzene	
1,4-Dichlorobenzene	
Xylene	<2
2-Butanone - MEK	<100
4-Methyl-2-pentanone	<50
Acetone	<100
Syrene	<2

FREE-COL LABORATORIES, INC.
VOA BLANK INFORMATION
(CLP - CALIBRATION BLANK LIMITS)

Date Analyst T. Lata / A. Ecklund

Samples associated with this blank:

Parameter	Blank Value
Units = ug/L	
Carbon Disulfide	<5
Vinyl Acetate	<50
2-Hexanone - MBK	<50
Dichlorofluoromethane	—
1,1,1,2-Tetrachloroethane	—
Trichlorofluoromethane	<2
1,2,3-Trichloropropane	—
3-Chloro-1-propene	—
1,2-Dibrmomethane	—
cis,1,2-Dichloroethene	<2
Dichloro difluoromethane	<2
Freon-113	<5

Limits in effect as of May 18, 1995

FREE-COL LABORATORIES, INC.
VOA REFERENCE CONTROL INFORMATION
(CLP - CALIBRATION VERIFICATION LIMITS)

Date 5-9-96 Analyst T. Lata / A. Ecklund

Samples associated with this reference control:

605-01-430 605-01-406/407
605-01-416 + 422
605-08-406/407

Parameter	Target Value ug/L	Acceptance Limits ug/L	Assayed Value ug/L	File#
Chloromethane	20	5.4-34.5	17.8	223
Bromomethane	20	8.1-39.8	19.9	222
Vinyl chloride	20	1.3-42.4	19.2	232
Chloroethane	20	4.0-36.9	17.9	209
Methylene chloride	20	11.5-31.4	18.5	224
Acrolein	62	4.2-105.4	30.7	201
Acrylonitrile	58	13.2-116.0	49.1	202
1,1-Dichloroethene	20	10.9-32.4	16.8	216
1,1-Dichloroethane	20	15.3-28.0	18.8	214
trans-1,2-Dichloroethene	20	13.6-28.3	18.1	217
Chloroform	20	15.5-26.2	20.1	211
1,2-Dichloroethane	20	7.5-34.5	21.4	215
1,1,1-Trichloroethane	20	13.6-29.8	17.8	228
Carbon tetrachloride	20	7.7-28.1	20.1	206
Bromodichloromethane	20	9.7-30.1	20.1	212
1,2-Dichloropropane	20	15.2-28.0	21.1	218
trans-1,3-Dichloropropene	20	12.7-25.6	19.7	220
Trichloroethene	20	14.0-27.3	20.3	230
Benzene	20	14.2-28.1	23.4	203
Dibromochloromethane	20	4.1-29.5	19.7	208
1,1,2-Trichloroethane	20	14.2-28.5	18.8	229
cis-1,3-Dichloropropene	20	10.1-27.2	19.2	219
2-Chloroethyl vinyl ether	20	9.9-32.5	21.8	210
Bromoform	20	2.3-31.1	17.1	205
Tetrachloroethene	20	13.0-28.7	18.1	226
1,1,2,2-Tetrachloroethane	20	14.7-26.1	20.9	225
Toluene	20	15.1-25.7	20.5	227
Chlorobenzene	20	11.1-28.9	19.8	207
Ethyl benzene	20	13.2-27.7	21.8	221
1,3-Dichlorobenzene	26	18.2-36.9	25.3	234
1,2-Dichlorobenzene	26	11.0-42.2	25.4	233
1,4-Dichlorobenzene	20	3.0-36.1	19.6	235
Diethyl Benzene	44	25.9-62.9	—	237
Ethyl Ether	35	26.9-49.4	—	236
Xylene	44	21.0-66.7	47.0	238
MEK	20	9.1-39.4	18.6	240
Acetone	20	9.6-38.0	18.0	242

Limits in effect as of May 18, 1995

FREE-COL LABORATORIES, INC.
VOA REFERENCE CONTROL INFORMATION
(CLP - CALIBRATION VERIFICATION LIMITS)

Date 5-6-96 Analyst T. Lata / A. Ecklund

Samples associated with this reference control:

Parameter	Target Value ug/L	Acceptance Limits ug/L	Assayed Value ug/L	File#
MIBK	20	14.0-29.7	19.9	243
Tetrahydrofuran	45	34.8-60.3	—	244
Carbondisulfide	20	11.0-30.4	17.7	245
Styrene	20	12.4-30.0	20.7	246
Vinyl Acetate	20	11.0-27.5	20.8	247
Amyl Acetate	44	14.7-64.6	—	248
Methyl Butyl Ketone	20	10.3-33.9	19.8	249
Freon 113			28.5	
Trichlorofluoromethane			20.8	
Dichlorodifluoromethane			21.3	

FIGURE E2

ENVIRONMENTAL SAMPLE DESCRIPTION AND CHAIN OF CUSTODY RECORD

ATTACHMENT #2

T 4/17/96

RESULTS REQUIRED BY: _____

VERBAL RESULTS NEEDED? _____

LABORATORY: Free - Col Labs

HARRISON DIVISION, GMC
200 UPPER MOUNTAIN ROAD
LOCKPORT, NEW YORK 14094
PHONE: (716) ~~439~~ 685-2300
CONTACT: Steve Blair

PE: 1) WASTEWATER 2) DRINKING WATER (3) MONITORING WELL 4) SOIL
3) 5) SLUDGE 6) SOLID WASTE 7) OIL 8) INDUSTRIAL HYGIENE
9) OTHER _____

ESCRIPTION: _____

LE #	LOCATION	TIME	PARAMETERS	SAMPLE BOTTLE LOT # (OPTIONAL)
4/30/96	MW-4	1:45	SW-846 Method 8240	
	MW-5	2:00		
	MW-6	2:15		
	MW-3	2:25		
	MW-7	2:35		
	MW-8	2:45		
	Trip Blank			

M DETECTION LEVELS REQUIRED? _____

LE INTERFERENCES: _____

N FOR TEST (COMPARISON OF AREAS, BACKGROUND, ETC.) _____

ES RECEIVED BY: (DATE/TIME) [HRD PERSONNEL]

BOTTLES RELINQUISHED BY: (DATE/TIME) [HRD PERSONNEL]
5/1/96 11:30

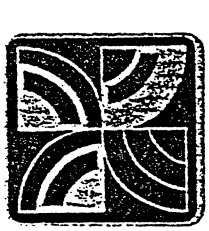
E LINQUISHED BY: (DATE/TIME) [HRD PERSONNEL]

BOTTLES RECEIVED BY: (DATE/TIME) [LAB PERSONNEL]
5-1-96 11:35

MPLE COLLECTED BY:

RECEIVED BY: [DATE, TIME, LAB SIGNATURE]
5-1-96
5-13-96

FREE-COL LABORATORIES, INC.
P.O. Box 557, Cotton Road
Meadville, Pennsylvania 16335-0557
Phone: Area Code 814/724-6242
FAX: Area Code 814/333-1466



ENVIRONMENTAL
OCCUPATIONAL HEALTH
FOOD SCIENCE
SPECIALISTS

DELPHI HARRISON THRM. SYS.
GENERAL MOTORS CORPORATION

MW-6
MW-5
MW-4
MW-3
MW-7
MW-8

SAMPLE DATES: 06/20/96
P.O.# HH48938

FREE-COL LABORATORIES, INC.
P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

06/28/96

TO:

DELPHI HARRISON THRM.SYS

P.O. # HH48938

200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER	SAMPLE ID :	MW-6 06/20/96	MW-5 06/20/96	MW-4 06/20/96	MW-3 06/20/96
	LAB ID	60626434	60626435	60626436	60626437
	DATE RECEIVED:	06/26/96	06/26/96	06/26/96	06/26/96
VOLATILE COMPOUNDS	UNITS = MG/L				
CHLOROMETHANE		<1 D	<1 D	<1 D	<1 D
BROMOMETHANE		<1 D	<1 D	<1 D	<1 D
VINYL CHLORIDE		2.6	<1 D	19	<1 D
CHLOROETHANE		<1 D	<1 D	<1 D	<1 D
METHYLENE CHLORIDE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
ACETONE		<10 D	<10 D	<10 D	<10 D
CARBON DISULFIDE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
1,1,-DICHLOROETHENE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
1,1,-DICHLOROETHANE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
1,2-DICHLORO***		7.9	4.3	110	200
CHLOROFORM		<0.5 D	<0.5 D	<0.5 D	<0.5 D
1,2-DICHLOROETHANE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
2-BUTANONE		<10 D	<10 D	<10 D	<10 D
1,1,1-TRICHLOROETHA*		<0.5 D	<0.5 D	<0.5 D	<0.5 D
CARBON TETRACHLORIDE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
VINYL ACETATE		<5 D	<5 D	<5 D	<5 D
BROMODICHLOROMETHANE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
1,1,2,2-TETRACHLORO*		<0.5 D	<0.5 D	<0.5 D	<0.5 D
1,2-DICHLOROPROPANE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
TRANS-1,3-DICHLOROP*		<0.5 D	<0.5 D	<0.5 D	<0.5 D
TRICHLOROETHENE		8.5	680	19	<0.5 D
DIBROMOCHLOROMETHANE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
1,1,2-TRICHLOROETHA*		<0.5 D	<0.5 D	<0.5 D	<0.5 D
BENZENE		<0.5 D	<0.5 D	<0.5 D	2.0
CIS-1,3-DICHLOROPRO*		<0.5 D	<0.5 D	<0.5 D	<0.5 D

*Some of the above names have been abbreviated. Please reference the enclosed list for their complete names.

FREE-COL LABORATORIES, INC.
P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

06/28/96

TO:

DELPHI HARRISON THRM.SYS

P.O. # HH48938

200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER	SAMPLE ID :	MW-6 06/20/96	MW-5 06/20/96	MW-4 06/20/96	MW-3 06/20/96
	LAB ID	60626434	60626435	60626436	60626437
	DATE RECEIVED:	06/26/96	06/26/96	06/26/96	06/26/96
VOLATILE COMPOUNDS (Cont.)	UNITS = MG/L				
2-CHLOR* VINYL ETHER		<1 D	<1 D	<1 D	<1 D
BROMOFORM		<0.5 D	<0.5 D	<0.5 D	<0.5 D
2-HEXANONE		<5 D	<5 D	<5 D	<5 D
4-METHYL-2-PENTANONE		<5 D	<5 D	<5 D	<5 D
TETRACHLOROETHENE		64	110	<0.5 D	<0.5 D
TOLUENE		<0.5 D	<0.5 D	<0.5 D	1.2
CHLOROBENZENE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
ETHYL BENZENE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
STYRENE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
TOTAL XYLENES		<0.5 D	<0.5 D	<0.5 D	0.7

Please reference the following page(s) for date and analyst.

*Some of the above names have been abbreviated. Please reference the enclosed list for their complete names.

FREE-COL LABORATORIES, INC.
P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

06/28/96

TO:

DELPHI HARRISON THRM.SYS

P.O. # HH48938

200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER	SAMPLE ID : MW-7 06/20/96	MW-8 06/20/96	TRIP BLANK 06/19/96
	LAB ID	60626438	60626439	60626440
	DATE RECEIVED:	06/26/96	06/26/96	06/26/96
VOLATILE COMPOUNDS	UNITS = MG/L		
CHLOROMETHANE	<1 D	<1 D	<0.010
BROMOMETHANE	<1 D	<1 D	<0.010
VINYL CHLORIDE	2.4	20	<0.010
CHLOROETHANE	<1 D	<1 D	<0.010
METHYLENE CHLORIDE	<0.5 D	<0.5 D	<0.005
ACETONE	<10 D	<10 D	<0.10
CARBON DISULFIDE	<0.5 D	<0.5 D	<0.005
1,1,-DICHLOROETHENE	<0.5 D	<0.5 D	<0.005
1,1,-DICHLOROETHANE	<0.5 D	<0.5 D	<0.005
1,2-DICHLORO***	24	120	<0.005
CHLOROFORM	<0.5 D	<0.5 D	<0.005
1,2-DICHLOROETHANE	<0.5 D	<0.5 D	<0.005
2-BUTANONE	<10 D	<10 D	<0.10
1,1,1-TRICHLOROETHA*	<0.5 D	<0.5 D	<0.005
CARBON TETRACHLORIDE	<0.5 D	<0.5 D	<0.005
VINYL ACETATE	<5 D	<5 D	<0.050
BROMODICHLOROMETHANE	<0.5 D	<0.5 D	<0.005
1,1,2,2-TETRACHLORO*	<0.5 D	<0.5 D	<0.005
1,2-DICHLOROPROPANE	<0.5 D	<0.5 D	<0.005
TRANS-1,3-DICHLOROP*	<0.5 D	<0.5 D	<0.005
TRICHLOROETHENE	1,100	19	<0.005
DIBROMOCHLOROMETHANE	<0.5 D	<0.5 D	<0.005
1,1,2-TRICHLOROETHA*	<0.5 D	<0.5 D	<0.005
BENZENE	<0.5 D	<0.5 D	<0.005
CIS-1,3-DICHLOROPRO*	<0.5 D	<0.5 D	<0.005

*Some of the above names have been abbreviated. Please reference the enclosed list for their complete names.

FREE-COL LABORATORIES, INC.
P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

06/28/96

TO:

DELPHI HARRISON THRM.SYS

P.O. # HH48938

200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER	SAMPLE ID :	MW-7	MW-8	TRIP BLANK
		06/20/96	06/20/96	06/19/96
	LAB ID	60626438	60626439	60626440
	DATE RECEIVED:	06/26/96	06/26/96	06/26/96
VOLATILE COMPOUNDS (Cont.)	UNITS =	MG/L		
2-CHLOR* VINYL ETHER		<1 D	<1 D	<0.010
BROMOFORM		<0.5 D	<0.5 D	<0.005
2-HEXANONE		<5 D	<5 D	<0.050
4-METHYL-2-PENTANONE		<5 D	<5 D	<0.050
TETRACHLOROETHENE		<0.5 D	<0.5 D	<0.005
TOLUENE		<0.5 D	<0.5 D	<0.005
CHLOROBENZENE		<0.5 D	<0.5 D	<0.005
ETHYL BENZENE		<0.5 D	<0.5 D	<0.005
STYRENE		<0.5 D	<0.5 D	<0.005
TOTAL XYLENES		<0.5 D	<0.5 D	<0.005

Volatile Compounds - Method 8240A
"Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", SW-846, Third Edition, U.S. Environmental Protection Agency. Revised 1986.

DATE AND ANALYST
06/28/96 ECKLUND

Andrew K. Ecklund
ASST. LABORATORY DIRECTOR

*Some of the above names have been abbreviated. Please reference the enclosed list for their complete names.

pc: Mr. Steve Blair, GZA

FREE-COL LABORATORIES, INC.
P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

TO:

ANALYTICAL REPORT FORM

CODE B: This analyte was detected in the associated blank as well as in the sample. It indicates possible/probable contamination. The data user may subtract the blank value at his/her discretion.

CODE D: Detection limit change due to a dilution.

CODE R: The percent recovery on the spiked sample associated with this sample was not within the acceptance limits of 75% - 125%

CODE S: This result was obtained by Method of Standard Additions.

CODE NA: Not Applicable

CODE ND: Not Detectable

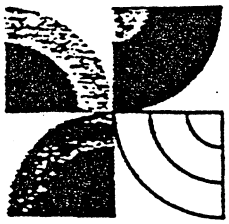
PRC: Preparation Reference Control

VOID: The sample plus spike concentration exceeded the linear range of the standard curve.

CODE Q: Values for parameters quantified in this sample have been adjusted for recoveries of the analytical matrix spike. The adjustments have been based on the matrix recoveries from this sample. Adjusted values are not given where sample values were less than the detection limit or where spike recoveries are equal to 100%

CODE J: This result is an estimated value. It indicates that the compound meets the mass spectral data identification criteria. The result is less than the quantitation limit.

FREE-COL LABORATORIES, INC.
P.O. Box 557, Cotton Road
Meadville, Pennsylvania 16335-0557
Phone: Area Code 814/724-6242
FAX: Area Code 814/333-1466



ENVIRONMENTAL
OCCUPATIONAL HEALTH
FOOD SCIENCE
SPECIALISTS

Unabbreviated Listing of Hazardous Substance List Compounds

VOLATILE COMPOUNDS

Chloromethane
Bromomethane
Vinyl Chloride
Chloroethane
Methylene Chloride
Acetone
Carbon Disulfide
1,1-Dichloroethene
1,1-Dichloroethane
1,2-Dichloroethylenes (Total)***
Chloroform
1,2-Dichloroethane
2-Butanone
1,1,1-Trichloroethane
Carbon Tetrachloride
Vinyl Acetate
Ethyl Benzene
Styrene
Total Xylenes

Bromodichloromethane
1,1,2,2-Tetrachloroethane
1,2-Dichloropropane
trans-1,3-Dichloropropene
Trichloroethene
Dibromochloromethane
1,1,2-Trichloroethane
Benzene
cis-1,3-Dichloropropene
2-Chloroethyl Vinyl Ether
Bromoform
2-Hexanone
4-Methyl-2-pentanone
Tetrachloroethene
Toluene
Chlorobenzene

***EPA Methods 601 and 624 and SW 846 Methods 8010 and 8240 do not differentiate the co-eluting cis and trans-1,2-dichloroethenes. The result reported to you is the sum of both compounds.

FREE-COL LABORATORIES, INC.
P.O. Box 557, Cotton Road
Meadville, Pennsylvania 16335-0557
Phone: Area Code 814/724-8242
FAX: Area Code 814/333-1466

ENVIRONMENTAL
OCCUPATIONAL HEALTH
FOOD SCIENCE
SPECIALISTS

QUALITY CONTROL INFORMATION

Free-Col Laboratories analyzes control samples at specified frequencies during the analyses for the purpose of evaluating and documenting the precision and accuracy of the results. The attached quality control data, prepared at the time of analysis, reflect the results obtained for the various types of controls from the batch of samples described as follows:

General Motors Sample Identification	Free-Col ID
MW-6 06/20/96	60626434
MW-5 06/20/96	60626435
MW-4 06/20/96	60626436
MW-3 06/20/96	60626437
MW-7 06/20/96	60626438
MW-8 06/20/96	60626439
TRIP BLANK 06/19/96	60626440

Free-Col Laboratories, Inc.
Surrogate Spike Information
Method 8240

6/28/96 Analyst: Ecklund

% Recovery

W = Low/Medium Water
S = Low/Medium Soil/Sediment

	1,2-Dichloroethane-d_4	Toluene-d_8	4-Bromofluorobenzene
Limits:			
Water	76-114	88-110	86-115
Soil/Sediment	70-121	81-117	74-121

Free-Col I.D.			
606-26-434	107	98	108
606-26-435	100	108	106
606-26-436	98	102	106
606-26-437	96	98	105
606-26-438	96	99	102
606-26-439	97	102	103
606-26-44C	94	97	96

FREE-COL LABORATORIES, INC.
VOA BLANK INFORMATION
(CLP - CALIBRATION BLANK LIMITS)

Date 6/28/96 Analyst Eklund

Samples associated with this blank:

606-26-434 → 440

Parameter	Blank Value
Units = ug/L	
Chloromethane	<10
Bromomethane	<10
Vinyl chloride	<10
Chloroethane	<10
Methylene chloride	<5
Acrolein	-
Acrylonitrile	-
1,1-Dichloroethene	<5
1,1-Dichloroethane	<5
trans-1,2-Dichloroethene	<5
Chloroform	<5
1,2-Dichloroethane	<5
1,1,1-Trichloroethane	<5
Carbon tetrachloride	<5
Bromodichloromethane	<5
1,2-Dichloropropane	<5
trans-1,3-Dichloropropene	<5
Trichloroethene	<5
Benzene	<5
Dibromochloromethane	<5
1,1,2-Trichloroethane	<5
cis-1,3-Dichloropropene	<5
2-Chloroethyl vinyl ether	<10
Bromoform	<5
Tetrachloroethene	<5
1,1,2,2-Tetrachloroethane	<5
Toluene	<5
Chlorobenzene	<5
Ethyl benzene	<5
1,3-Dichlorobenzene	-
1,2-Dichlorobenzene	-
1,4-Dichlorobenzene	-
Xylene	<5
2-Butanone - MEK	<100
4-Methyl-2-pentanone	<50
Acetone	<100
Styrene	<5

FREE-COL LABORATORIES, INC.
VOA BLANK INFORMATION
(CLP - CALIBRATION BLANK LIMITS)

Date 6/28/96 Analyst Eichlund

Samples associated with this blank:

606-26-434 → 440

Parameter	Blank Value
Units = µg/L	
Carbon Disulfide	<5
Vinyl Acetate	<50
2-Hexanone - MBK	<50
Dichlorofluoromethane	
1,1,1,2-Tetrachloroethane	
Trichlorofluoromethane	
1,2,3-Trichloropropane	
3-Chloro-1-propene	
1,2-Dibrmomethane	
cis,1,2-Dichloroethene	

Limits in effect as of May 18, 1995

FREE-COL LABORATORIES, INC.
VOA REFERENCE CONTROL INFORMATION
(CLP - CALIBRATION VERIFICATION LIMITS)

Date 6/28/96 Analyst Eckland
Samples associated with this reference control:

606-26.434→440

Parameter	Target Value ug/L	Acceptance Limits ug/L	Assayed Value ug/L	File#
Chloromethane	20	5.4-34.5	20.6	223
Bromomethane	20	8.1-39.8	22.4	222
Vinyl chloride	20	1.3-42.4	19.0	232
Chloroethane	20	4.0-36.9	22.5	209
Methylene chloride	20	11.5-31.4	19.6	224
Acrolein	62	4.2-105.4	—	201
Acrylonitrile	58	13.2-116.0	—	202
1,1-Dichloroethene	20	10.9-32.4	20.3	216
1,1-Dichloroethane	20	15.3-28.0	21.5	214
trans-1,2-Dichloroethenes	20	13.6-28.3	20.0	217
Chloroform	20	15.5-26.2	22.8	211
1,2-Dichloroethane	20	7.5-34.5	18.8	215
1,1,1-Trichloroethane	20	13.6-29.8	23.6	228
Carbon tetrachloride	20	7.7-28.1	19.6	206
Bromodichloromethane	20	9.7-30.1	21.0	212
1,2-Dichloropropane	20	15.2-28.0	22.3	218
trans-1,3-Dichloropropene	20	12.7-25.6	18.2	220
Trichloroethene	20	14.0-27.3	21.6	230
Benzene	20	14.2-28.1	20.2	203
Dibromochloromethane	20	4.1-29.5	17.8	208
1,1,2-Trichloroethane	20	14.2-28.5	17.7	229
cis-1,3-Dichloropropene	20	10.1-27.2	17.6	219
2-Chloroethyl vinyl ether	20	9.9-32.5	16.3	210
Bromoform	20	2.3-31.1	21.2	205
Tetrachloroethene	20	13.0-28.7	19.1	226
1,1,2,2-Tetrachloroethane	20	14.7-26.1	21.9	225
Toluene	20	15.1-25.7	17.5	227
Chlorobenzene	20	11.1-28.9	20.0	207
Ethyl benzene	20	13.2-27.7	21.9	221
1,3-Dichlorobenzene	26	18.2-36.9	—	234
1,2-Dichlorobenzene	26	11.0-42.2	—	233
1,4-Dichlorobenzene	20	3.0-36.1	—	235
Diethyl Benzene	44	25.9-62.9	—	237
Ethyl Ether	35	26.9-49.4	—	236
Xylene	44	21.0-66.7	50.8	238
MEK	20	9.1-39.4	22.1	240
Acetone	20	9.6-38.0	21.4	242

Limits in effect as of May 18, 1995

FREE-COL LABORATORIES, INC.
VOA REFERENCE CONTROL INFORMATION
(CLP - CALIBRATION VERIFICATION LIMITS)

Date 6/28/96 Analyst Eckland

Samples associated with this reference control:

606-26-434 ⇒ 440

Parameter	Target Value ug/L	Acceptance Limits ug/L	Assayed Value ug/L	File#
MIBK	20	14.0-29.7	17.8	243
Tetrahydrofuran	45	34.8-60.3	—	244
Carbondisulfide	20	11.0-30.4	20.6	245
Styrene	20	12.4-30.0	19.5	246
Vinyl Acetate	20	11.0-27.5	23.3	247
Amyl Acetate	44	14.7-64.6	—	248
Methyl Butyl Ketone	20	10.3-33.9	18.6	249

Limits in effect as of May 18, 1995

FREE-COL LABORATORIES, INC.
VOA REPEAT CONTROL INFORMATION
(CLP - DUPLICATE SAMPLE LIMITS)

Date 6/28/96 Analyst Ecklund

Samples associated with this repeat control:
606-26-434→440

Sample used as repeat control: 606-28-025

AD = Absolute Difference RPD = Relative Percent Difference

Units = ug/L

Parameter	Samp. Value	Repeat Value	Accept AD	Accept RPD	Assayd AD/RPD	File
Chloromethane	<10	<10			0	820
Bromomethane	↓	↓			↓	819
Vinyl chloride				27		828
Chloroethane	↓	↓				807
Methylene chloride	<5	<5		17	↓	821
Acrolein	-	-			-	800
Acrylonitrile	-	-			-	801
1,1-Dichloroethene	<5	<5			0	813
1,1-Dichloroethane				41		811
trans-1,2-Dichloroethene				28		814
Chloroform				14		809
1,2-Dichloroethane						812
1,1,1-Trichloroethane				27		825
Carbon tetrachloride						804
Bromodichloromethane				79		810
1,2-Dichloropropane						815
trans-1,3-Dichloropropene						817
Trichloroethene				32		827
Benzene				49		802
Dibromochloromethane				70		806
1,1,2-Trichloroethane						826
cis-1,3-Dichloropropene	↓	↓				816
2-Chloroethyl vinyl ether	<10	<10				808
Bromoform	<5	<5				803
Tetrachloroethene				33		823
1,1,2,2-Tetrachloroethane						822
Toluene				38		824
Chlorobenzene				24		805
Ethyl benzene	↓	↓		5	↓	818
1,3-Dichlorobenzene	-	-			-	830
1,2-Dichlorobenzene	-	-			-	829
1,4-Dichlorobenzene	-	-		36	-	831
Acetone	<100	<100		26	0	836

Limits in effect as of May 18, 1995

FREE-COL LABORATORIES, INC.
VOA REPEAT CONTROL INFORMATION
(CLP - DUPLICATE SAMPLE LIMITS)

Date 6/28/96 Analyst Ecklund
Samples associated with this repeat control:

606-26-434 ⇒ 440

Sample used as repeat control: 606-28-025
AD = Absolute Difference RPD = Relative Percent Difference

Parameter Units = ug/L	Samp. Value	Repeat Value	Accept AD	Accept RPD	Assayd AD/RPD	File
3-Chloro-1-propene						
Dichlorodifluoromethane						
Methyl Ethyl Ketone	<100	<100			0	
MIBK	<50	<50			0	
1,1,1,2-Tetrachloroethane						
Trichlorofluoromethane						
1,2,3-Trichloropropane						
1,2-Dibromomethane						
Cis-1.2-Dichloroethane						
Xylene	<5	<5			0	
Vinyl Acetate	<50	<50				
Carbon disulfide	<5	<5				
Methyl Butyl Ketone	<50	<50				
Styrene	<5	<5				

Limits in effect as of May 18, 1995

FREE-COL LABORATORIES, INC.
VOA SPIKED CONTROL INFORMATION
(CLP - ANALYTICAL SPIKED SAMPLE LIMITS)

Date 6/28/96 Analyst Eckhardt

Samples associated with this spiked control:

606-26-434->440

Sample used as spiked control: 606-28027

PARAMETER	SPIKE ADDED UG/L	SPIKED RESULT UG/L	SAMPLE RESULT UG/L	ACCEPT. LIMITS % REC.	ASSYD % REC.	FILE
Chloromethane	20	23	<10	28-189	115	520
Bromomethane	20	19	<10	31-212	95	519
Vinyl chloride	20	22	<10	22-185	110	528
Chloroethane	20	17	<10	52-170	85	507
Methylene chloride	20	24	<5	63-148	120	521
Acrolein	62	-	-	22-185	-	500
Acrylonitrile	58	-	-	53-187	-	501
1,1-Dichloroethene	20	22	<5	50-158	110	513
1,1-Dichloroethane	20	21	<5	73-141	105	511
trans-1,2-Dichloroethene	20	20	<5	63-151	100	514
Chloroform	20	22	<5	68-141	110	509
1,2-Dichloroethane	20	21	<5	52-157	105	512
1,1,1-Trichloroethane	20	21	<5	58-155	105	525
Carbon tetrachloride	20	24	<5	40-141	120	504
Bromodichloromethane	20	18	<5	46-150	90	510
1,2-Dichloropropane	20	17	<5	67-145	85	515
trans-1,3-Dichloropropene	20	16	<5	56-141	80	517
Trichloroethene	20	17	<5	64-129	85	527
Benzene	20	23	<5	70-144	115	502
Dibromochloromethane	20	18	<5	27-158	90	506
1,1,2-Trichloroethane	20	18	<5	59-149	90	526
cis-1,3-Dichloropropene	20	16	<5	46-151	80	516
2-Chloroethyl vinyl ether	20	20	<10	4-186	100	508
Bromoform	20	19	<5	6-150	95	503
Tetrachloroethene	20	20	<5	48-163	100	523
1,1,2,2-Tetrachloroethane	20	20	<5	46-164	100	522
Toluene	20	19	<5	72-131	95	524
Chlorobenzene	20	21	<5	70-131	105	505
Ethyl benzene	20	23	<5	61-140	115	518
1,3-Dichlorobenzene	26	-	-	58-163		530
1,2-Dichlorobenzene	26	-	-	42-159		529
1,4-Dichlorobenzene	20	-	-	33-177		531
Diethyl Benzene	44	-	-	71-137		533
Ethyl Ether	35	-	-	62-160		532
Xylenes	44	50.4	<5	72-130	115	534
MEK	20	18	<100	63-179	90	536

Limits in effect as of May 18, 1995

FREE-COL LABORATORIES, INC.
VOA SPIKED CONTROL INFORMATION
(CLP - ANALYTICAL SPIKED SAMPLE LIMITS)

Date 6/21/96 Analyst Eshlund
Samples associated with this spiked control:

606-26-434 → 440

Sample used as spiked control: 606-28-027

PARAMETER	SPIKE ADDED UG/L	SPIKED RESULT UG/L	SAMPLE RESULT UG/L	ACCEPT. LIMITS % REC.	ASSYD % REC.	FILE
Acetone	20	22	<100	51-175	110	538
MIBK	20	22	<50	53-160	110	539
Ethyl Acetate	45	—	—	71-140	—	535
Tetrahydrofuran	45	—	—		—	
Carbondisulfide	20	22	<5		110	
Styrene	20	20	<5		100	
Vinyl Acetate	20	18	<50		90	
Amyl Acetate	44	—	—		—	
Methyl Butyl Ketone	20	18	<50		90	

FIGURE E2

ENVIRONMENTAL SAMPLE DESCRIPTION AND CHAIN OF CUSTODY RECORD

ATTACHMENT #2

6/20/96

RESULTS REQUIRED BY: _____

VERBAL RESULTS NEEDED? _____

LABORATORY: Free-Col Labs

HARRISON DIVISION, GMC
200 UPPER MOUNTAIN ROAD
LOCKPORT, NEW YORK 14094
PHONE: (716) ~~439~~ 685-2300
CONTACT: Steve Blair

PE: 1) WASTEWATER 2) DRINKING WATER (3) MONITORING WELL 4) SOIL
E) 5) SLUDGE 6) SOLID WASTE 7) OIL 8) INDUSTRIAL HYGIENE
9) OTHER _____

ESCRIPTION: Please test in the following order: MW-6, MW-5, MW-4, MW-3, MW-7, MW-8

LE #	LOCATION	TIME	PARAMETERS	SAMPLE BOTTLE LOT # (OPTIONAL)
	MW-5	6/20/96	SW-846 Method 8240	
15	MW-4		"	
40	MW-6		"	
30	MW-3		"	
5	MW-7		"	
	MW-8		"	
	Trip Blank	V	"	

DETECTION LEVELS REQUIRED? _____

E INTERFERENCES: _____

FOR TEST (COMPARISON OF AREAS, BACKGROUND, ETC.) _____

S RECEIVED BY: (DATE/TIME) [HRD PERSONNEL]

BOTTLES RELINQUISHED BY: (DATE/TIME) [HRD PERSONNEL]

S RELINQUISHED BY: (DATE/TIME) [HRD PERSONNEL]

BOTTLES RECEIVED BY: (DATE/TIME) [LAB PERSONNEL]
6-26-96 1:35

E COLLECTED BY:

RECEIVED BY: (DATE, TIME, LAB SIGNATURE)
Cone Watt 6-26-96

FREE-COL LABORATORIES, INC.
P.O. Box 557, Cotton Road
Meadville, Pennsylvania 16335-0557
Phone: Area Code 814/724-6242
FAX: Area Code 814/333-1466

ENVIRONMENTAL
OCCUPATIONAL HEALTH
FOOD SCIENCE
SPECIALISTS

DELPHI HARRISON THRM. SYS.
GENERAL MOTORS CORPORATION

MONITORING WELLS #'s 10,9,8,6,4,3,7,11

SAMPLE DATES: 10/30/96
P.O.# HH48938

FREE-COL LABORATORIES, INC.
P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-8242
FAX: (814) 333-1466

11/11/96

TO: DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094

P.O. # HH48938

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER	SAMPLE ID :	MW-10 10/30/96	MW-9 10/30/96	MW-8 10/30/96	MW-6 10/30/96
	LAB ID	61101408	61101409	61101410	61101411
	DATE RECEIVED:	11/01/96	11/01/96	11/01/96	11/01/96
VOLATILE COMPOUNDS	UNITS = MG/L				
CHLOROMETHANE		<0.1 D	<0.1 D	<0.010	<0.1 D
BROMOMETHANE		<0.1 D	<0.1 D	<0.010	<0.1 D
VINYL CHLORIDE		0.11	0.1	0.047	1.9
CHLOROETHANE		<0.1 D	<0.1 D	<0.010	<0.1 D
METHYLENE CHLORIDE		<0.05 D	<0.05 D	<0.005	<0.05 D
ACETONE		<1 D	<1 D	<0.10	<1 D
CARBON DISULFIDE		<0.05 D	<0.05 D	<0.005	<0.05 D
1,1,-DICHLOROETHENE		<0.05 D	<0.05 D	<0.005	<0.05 D
1,1,-DICHLOROETHANE		<0.05 D	<0.05 D	<0.005	<0.05 D
1,2-DICHLORO***		1.8	3.3	1.5	3.9
CHLOROFORM		<0.05 D	<0.05 D	<0.005	<0.05 D
1,2-DICHLOROETHANE		<0.05 D	<0.05 D	<0.005	<0.05 D
2-BUTANONE		<1 D	<1 D	<0.10	<1 D
1,1,1-TRICHLOROETHA*		<0.05 D	<0.05 D	<0.005	<0.05 D
CARBON TETRACHLORIDE		<0.05 D	<0.05 D	<0.005	<0.05 D
VINYL ACETATE		<0.5 D	<0.5 D	<0.050	<0.05 D
BROMODICHLOROMETHANE		<0.05 D	<0.05 D	<0.005	<0.05 D
1,1,2,2-TETRACHLORO*		<0.05 D	<0.05 D	<0.005	<0.05 D
1,2-DICHLOROPROPANE		<0.05 D	<0.05 D	<0.005	<0.05 D
TRANS-1,3-DICHLOROP*		<0.05 D	<0.05 D	<0.005	<0.05 D
TRICHLOROETHENE		0.98	2.2	0.20	1.8
DIBROMOCHLOROMETHANE		<0.05 D	<0.05 D	<0.005	<0.05 D
1,1,2-TRICHLOROETHA*		<0.05 D	<0.05 D	<0.005	<0.05 D
BENZENE		<0.05 D	<0.05 D	<0.005	<0.05 D
CIS-1,3-DICHLOROPRO*		<0.05 D	<0.05 D	<0.005	<0.05 D

*Some of the above names have been abbreviated. Please reference the enclosed list for their complete names.

FREE-COL LABORATORIES, INC.
P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

11/11/96

TO: DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094

P.O. # HH48938

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER	SAMPLE ID :	MW-10 10/30/96	MW-9 10/30/96	MW-8 10/30/96	MW-6 10/30/96
	LAB ID	61101408	61101409	61101410	61101411
	DATE RECEIVED:	11/01/96	11/01/96	11/01/96	11/01/96
VOLATILE COMPOUNDS (Cont.)	UNITS = MG/L				
2-CHLOR* VINYL ETHER		<0.1 D	<0.1 D	<0.010	<0.1 D
BROMOFORM		<0.05 D	<0.05 D	<0.005	<0.05 D
2-HEXANONE		<0.5 D	<0.5 D	<0.050	<0.5 D
4-METHYL-2-PENTANONE		<0.5 D	<0.5 D	<0.050	<0.5 D
TETRACHLOROETHENE		0.12	0.21	0.024	8.4
TOLUENE		<0.05 D	<0.05 D	<0.005	<0.05 D
CHLOROBENZENE		<0.05 D	<0.05 D	<0.005	<0.05 D
ETHYL BENZENE		<0.05 D	<0.05 D	<0.005	<0.05 D
STYRENE		<0.05 D	<0.05 D	<0.005	<0.05 D
TOTAL XYLENES		<0.05 D	<0.05 D	<0.005	<0.05 D

Please reference the following page(s) for date and analyst.

*Some of the above names have been abbreviated. Please reference the enclosed list for their complete names.

FREE-COL LABORATORIES, INC.
P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

11/11/96

TO: DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094

P.O. # HH48938

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER	SAMPLE ID :	MW-4 10/30/96	MW-3 10/30/96	MW-7 10/30/96	MW-11 10/30/96
	LAB ID	61101412	61101413	61101414	61101415
	DATE RECEIVED:	11/01/96	11/01/96	11/01/96	11/01/96
VOLATILE COMPOUNDS	UNITS = MG/L				
CHLOROMETHANE		<1 D	<1 D	<1 D	<1 D
BROMOMETHANE		<1 D	<1 D	<1 D	<1 D
VINYL CHLORIDE		14	1.3	2.3	13
CHLOROETHANE		<1 D	<1 D	<1 D	<1 D
METHYLENE CHLORIDE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
ACETONE		<10 D	<10 D	<10 D	<10 D
CARBON DISULFIDE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
1,1,-DICHLOROETHENE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
1,1,-DICHLOROETHANE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
1,2-DICHLORO***		120	210	32	120
CHLOROFORM		<0.5 D	<0.5 D	<0.5 D	<0.5 D
1,2-DICHLOROETHANE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
2-BUTANONE		<10 D	<10 D	<10 D	<10 D
1,1,1-TRICHLOROETHA*		<0.5 D	<0.5 D	<0.5 D	<0.5 D
CARBON TETRACHLORIDE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
VINYL ACETATE		<5 D	<5 D	<5 D	<5 D
BROMODICHLOROMETHANE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
1,1,2,2-TETRACHLORO*		<0.5 D	<0.5 D	<0.5 D	<0.5 D
1,2-DICHLOROPROPANE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
TRANS-1,3-DICHLOROP*		<0.5 D	<0.5 D	<0.5 D	<0.5 D
TRICHLOROETHENE		34	<0.5	790	36
DIBROMOCHLOROMETHANE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
1,1,2-TRICHLOROETHA*		<0.5 D	<0.5 D	<0.5 D	<0.5 D
BENZENE		<0.5 D	2.3	<0.5 D	<0.5 D
CIS-1,3-DICHLOROPRO*		<0.5 D	<0.5 D	<0.5 D	<0.5 D

*Some of the above names have been abbreviated. Please reference the enclosed list for their complete names.

FREE-COL LABORATORIES, INC.
P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

11/11/96

TO: DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094

P.O. # HH48938

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER	SAMPLE ID :	MW-4 10/30/96	MW-3 10/30/96	MW-7 10/30/96	MW-11 10/30/96
	LAB ID	61101412	61101413	61101414	61101415
	DATE RECEIVED:	11/01/96	11/01/96	11/01/96	11/01/96
VOLATILE COMPOUNDS (Cont.)	UNITS = MG/L				
2-CHLOR* VINYL ETHER		<1 D	<1 D	<1 D	<1 D
BROMOFORM		<0.5 D	<0.5 D	<0.5 D	<0.5 D
2-HEXANONE		<5 D	<5 D	<5 D	<5 D
4-METHYL-2-PENTANONE		<5 D	<0.5 D	<5 D	<5 D
TETRACHLOROETHENE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
TOLUENE		<0.5 D	2.3	<0.5 D	<0.5 D
CHLOROBENZENE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
ETHYL BENZENE		<0.5 D	1.5	<0.5 D	<0.5 D
STYRENE		<0.5 D	<0.5 D	<0.5 D	<0.5 D
TOTAL XYLENES		<0.5 D	2.8	<0.5 D	<0.5 D

Please reference the following page(s) for date and analyst.

*Some of the above names have been abbreviated. Please reference the enclosed list for their complete names.

FREE-COL LABORATORIES, INC.
P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

11/11/96

TO: DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094

P.O. # HH48938

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

SAMPLE ID : TRIP BLK.
10/25/96

LAB ID 61101416
DATE RECEIVED: 11/01/96

PARAMETER	RESULTS	UNITS	DATE AND ANALYST
VOLATILE COMPOUNDS			
Chloromethane	<0.010	MG/L	11/07/96 ECKLUND
Bromomethane	<0.010		
Vinyl Chloride	<0.010		
Chloroethane	<0.010		
Methylene Chloride	<0.005		
Acetone	<0.10		
Carbon Disulfide	<0.005		
1,1-Dichloroethene	<0.005		
1,1-Dichloroethane	<0.005		
1,2-Dichloroethenes (Total)***	<0.005		
Chloroform	0.030		
1,2-Dichloroethane	<0.005		
2-Butanone	<0.10		
1,1,1-Trichloroethane	<0.005		
Carbon Tetrachloride	<0.005		
Vinyl Acetate	<0.050		
Bromodichloromethane	0.011		
1,1,2,2-Tetrachloroethane	<0.005		
1,2-Dichloropropane	<0.005		
trans-1,3-Dichloropropene	<0.005		
Trichloroethene	<0.005		
Dibromochloromethane	<0.005		
1,1,2-Trichloroethane	<0.005		

***EPA Methods 601 and 624 and SW 846 Methods 8010 and 8240 do not differentiate the co-eluting cis and trans-1,2-dichloroethenes. The result reported is the sum of both compounds.

FREE-COL LABORATORIES, INC.
P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466
11/11/96

TO: DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094

P.O. # HH48938

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

SAMPLE ID : TRIP BLK.
10/25/96

LAB ID 61101416
DATE RECEIVED: 11/01/96

PARAMETER	RESULTS	UNITS	DATE AND ANALYST
VOLATILE COMPOUNDS Continued			
Benzene	<0.005	MG/L	11/07/96 ECKLUND
cis-1,3-Dichloropropene	<0.005		
2-Chloroethylvinyl ether	<0.010		
Bromoform	<0.005		
2-Hexanone	<0.050		
4-Methyl-2-pentanone	<0.050		
Tetrachloroethene	<0.005		
Toluene	<0.005		
Chlorobenzene	<0.005		
Ethylbenzene	<0.005		
Styrene	<0.005		
Total Xylenes	<0.005		

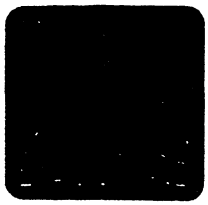
Volatile Compounds - Method 8240A
"Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", SW-846, Third Edition, U.S. Environmental Protection Agency. Revised 1986.

John R Paraska
QUALITY ASSURANCE SUPERVISOR
FREE-COL LABORATORIES

pc: Mr. Steve Blair, GZA

KEY: LESS THAN >-GREATER THAN W/-WILL FOLLOW

FREE-COL LABORATORIES, INC.
P.O. Box 557, Cotton Road
Meadville, Pennsylvania 16335-0557
Phone: Area Code 814/724-8242
FAX: Area Code 814/333-1466



ENVIRONMENTAL
OCCUPATIONAL HEALTH
FOOD SCIENCE
SPECIALISTS

Unabbreviated Listing of Hazardous Substance List Compounds

VOLATILE COMPOUNDS

Chloromethane
Bromomethane
Vinyl Chloride
Chloroethane
Methylene Chloride
Acetone
Carbon Disulfide
1,1-Dichloroethene
1,1-Dichloroethane
1,2-Dichloroethylenes (Total)***
Chloroform
1,2-Dichloroethane
2-Butanone
1,1,1-Trichloroethane
Carbon Tetrachloride
Vinyl Acetate
Ethyl Benzene
Styrene
Total Xylenes

Bromodichloromethane
1,1,2,2-Tetrachloroethane
1,2-Dichloropropane
trans-1,3-Dichloropropene
Trichloroethene
Dibromochloromethane
1,1,2-Trichloroethane
Benzene
cis-1,3-Dichloropropene
2-Chloroethyl Vinyl Ether
Bromoform
2-Hexanone
4-Methyl-2-pentanone
Tetrachloroethene
Toluene
Chlorobenzene

***EPA Methods 601 and 624 and SW 846 Methods 8010 and 8240 do not differentiate the co-eluting cis and trans-1,2-dichloroethenes. The result reported to you is the sum of both compounds.

FREE-COL LABORATORIES, INC.
P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

TO:

ANALYTICAL REPORT FORM

CODE B: This analyte was detected in the associated blank as well as in the sample. It indicates possible/probable contamination. The data user may subtract the blank value at his/her discretion.

CODE D: Detection limit change due to a dilution.

CODE R: The percent recovery on the spiked sample associated with this sample was not within the acceptance limits of 75% - 125%

CODE S: This result was obtained by Method of Standard Additions.

CODE NA: Not Applicable

CODE ND: Not Detectable

PRC: Preparation Reference Control

VOID: The sample plus spike concentration exceeded the linear range of the standard curve.

CODE Q: Values for parameters quantified in this sample have been adjusted for recoveries of the analytical matrix spike. The adjustments have been based on the matrix recoveries from this sample. Adjusted values are not given where sample values were less than the detection limit or where spike recoveries are equal to 100%

CODE J: This result is an estimated value. It indicates that the compound meets the mass spectral data identification criteria. The result is less than the quantitation limit.

FIGURE E2

ENVIRONMENTAL SAMPLE DESCRIPTION AND CHAIN OF CUSTODY RECORD

ATTACHMENT #2

DATE: 10/30/96

RESULTS REQUIRED BY: _____

VERBAL RESULTS NEEDED? _____

LABORATORY: Free - 61

HARRISON DIVISION, GMC
200 UPPER MOUNTAIN ROAD
LOCKPORT, NEW YORK 14094
PHONE: (716) ~~439~~ 695-2300
CONTACT: Steve Blair
C02A

SAMPLE TYPE: (CIRCLE)
1) WASTEWATER 2) DRINKING WATER (3) MONITORING WELL 4) SOIL
5) SLUDGE 6) SOLID WASTE 7) OIL 8) INDUSTRIAL HYGIENE
9) OTHER _____

SAMPLE DESCRIPTION: Please test in the following Order
MW-10, MW-9, MW-8, MW-6, MW-4, MW-3, MW-7, MW-1

SAMPLE #	LOCATION	TIME	PARAMETERS	SAMPLE BOTTLE LOT # (OPTIONAL)
	MW-6	10 30	SW846 - Method 8240	
	MW-7	11 43	"	
	MW-3	11 52	"	
	MW-8	12 49	"	
	MW-9	1 30	"	
	MW-10	2 09	"	
	MW-4	3 15	"	
	MW-11	3 30	"	
	Trip Blank		"	

LOW DETECTION LEVELS REQUIRED? _____

SAMPLE INTERFERENCES: _____

REASON FOR TEST (COMPARISON OF AREAS, BACKGROUND, ETC.) _____

BOTTLES RECEIVED BY: (DATE/TIME) (HRD PERSONNEL)

BOTTLES RELINQUISHED BY: (DATE/TIME) (HRD PERSONNEL)
[signature] 11/1/96

BOTTLES RELINQUISHED BY: (DATE/TIME) (HRD PERSONNEL)

BOTTLES RECEIVED BY: (DATE/TIME) (LAB PERSONNEL)
[signature] 11-1-96 1220

SAMPLE COLLECTED BY:

RECEIVED BY: (DATE, TIME, LAB SIGNATURE)
[signature] 11-1-96

FREE-COL LABORATORIES, INC.
P.O. Box 557, Cotton Road
Meadville, Pennsylvania 16335-0557
Phone: Area Code 814/724-6242
FAX: Area Code 814/333-1466

ENVIRONMENTAL
OCCUPATIONAL HEALTH
FOOD SCIENCE
SPECIALISTS

DELPHI HARRISON THRM. SYS.
GENERAL MOTORS CORPORATION

MW-5

SAMPLE DATES: 10/31/96
P.O.# HH48938

FREE-COL LABORATORIES, INC.

P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

11/14/96

TO: DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094-1896

P.O. # HH48938

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

SAMPLE ID : MW-5
10/31/96

LAB ID 61101417
DATE RECEIVED: 11/01/96

PARAMETER	RESULTS	UNITS	DATE AND ANALYST
VOLATILE COMPOUNDS			
Chloromethane	<1 D	MG/L	11/07/96 ECKLUND
Bromomethane	<1 D		
Vinyl Chloride	<1 D		
Chloroethane	<1 D		
Methylene Chloride	<0.5 D		
Acetone	<10 D		
Carbon Disulfide	<0.5 D		
1,1-Dichloroethene	<0.5 D		
1,1-Dichloroethane	<0.5 D		
1,2-Dichloroethenes (Total)***	3.4		
Chloroform	<0.5 D		
1,2-Dichloroethane	<0.5 D		
2-Butanone	<10 D		
1,1,1-Trichloroethane	<0.5 D		
Carbon Tetrachloride	<0.5 D		
Vinyl Acetate	<5 D		
Bromodichloromethane	<0.5 D		
1,1,2,2-Tetrachloroethane	<0.5 D		
1,2-Dichloropropane	<0.5 D		
trans-1,3-Dichloropropene	<0.5 D		
Trichloroethene	390		
Dibromochloromethane	<0.5 D		
1,1,2-Trichloroethane	<0.5 D		

***EPA Methods 601 and 624 and SW 846 Methods 8010 and 8240 do not differentiate the co-eluting cis and trans-1,2-dichloroethenes. The result reported is the sum of both compounds.

FREE-COL LABORATORIES, INC.
P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1468
11/14/96

TO: DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094-1896

P.O. # HH48938

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

SAMPLE ID : MW-5
10/31/96

LAB ID 61101417
DATE RECEIVED: 11/01/96

PARAMETER	RESULTS	UNITS	DATE AND ANALYST
VOLATILE COMPOUNDS Continued			
Benzene	<0.5 D	MG/L	11/07/96 ECKLUND
cis-1,3-Dichloropropene	<0.5 D		
2-Chloroethylvinyl ether	<1 D		
Bromoform	<0.5 D		
2-Hexanone	<5 D		
4-Methyl-2-pentanone	<5 D		
Tetrachloroethene	89		
Toluene	<0.5 D		
Chlorobenzene	<0.5 D		
Ethylbenzene	<0.5 D		
Styrene	<0.5 D		
Total Xylenes	<0.5 D		

Volatile Compounds - Method 8240A
"Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", SW-846, Third Edition, U.S. Environmental Protection Agency. Revised 1986.

QUALITY ASSURANCE SUPER.
FREE-COL LABORATORIES

pc: Mr. Steve Blair, GZA

FREE-COL LABORATORIES, INC.
P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

TO:

ANALYTICAL REPORT FORM

CODE B: This analyte was detected in the associated blank as well as in the sample. It indicates possible/probable contamination. The data user may subtract the blank value at his/her discretion.

CODE D: Detection limit change due to a dilution.

CODE R: The percent recovery on the spiked sample associated with this sample was not within the acceptance limits of 75% - 125%

CODE S: This result was obtained by Method of Standard Additions.

CODE NA: Not Applicable

CODE ND: Not Detectable

PRC: Preparation Reference Control

VOID: The sample plus spike concentration exceeded the linear range of the standard curve.

CODE Q: Values for parameters quantified in this sample have been adjusted for recoveries of the analytical matrix spike. The adjustments have been based on the matrix recoveries from this sample. Adjusted values are not given where sample values were less than the detection limit or where spike recoveries are equal to 100%

CODE J: This result is an estimated value. It indicates that the compound meets the mass spectral data identification criteria. The result is less than the quantitation limit.

FREE-COL LABORATORIES, INC.
P.O. Box 557, Cotton Road
Meadville, Pennsylvania 16335-0557
Phone: Area Code 814/724-6242
FAX: Area Code 814/333-1466

ENVIRONMENTAL
OCCUPATIONAL HEALTH
FOOD SCIENCE
SPECIALISTS

QUALITY CONTROL INFORMATION

Free-Col Laboratories analyzes control samples at specified frequencies during the analyses for the purpose of evaluating and documenting the precision and accuracy of the results. The attached quality control data, prepared at the time of analysis, reflect the results obtained for the various types of controls from the batch of samples described as follows:

General Motors Sample Identification	Free-Col ID
MW-5 10/31/96	61101417

Free-Col Laboratories, Inc.
Surrogate Spike Information
Method 8260

e: 11-6-96 Analyst: Eckblund
11-7-96

s: % Recovery

: W = Low/Medium Water
S = Low/Medium Soil/Sediment

	Dibromofluoromethane	Toluene-d8	4-Bromofluorobenzene
Limits:			
Water	86-118	88-110	86-115
Soil/Sediment	80-120	81-117	74-121

e S/W	Free-Col I.D.			
W	611-01-408	100	97	104
W	611-01-409	106	92	108
W	611-01-410	105	88	108
W	611-01-411	96	94	102
W	611-01-412	98	97	106
W	611-01-413	97	95	106
W	611-01-414	104	97	104
W	611-01-416	108	92	104
W	611-01-415	103	104	106
W	611-01-417	104	101	110

Limits in effect as of August 5, 1996

FREE-COL LABORATORIES, INC.
VOA REFERENCE CONTROL INFORMATION
(CLP - CALIBRATION VERIFICATION LIMITS)

Date 11-6-96 Analyst Ecklund

Samples associated with this reference control:

611-01-408 → 417

Parameter	Target Value ug/L	Acceptance Limits ug/L	Assayed Value ug/L	File#
Chloromethane	20	5.4-34.5	18.7	223
Bromomethane	20	7.8-39.4	18.8	222
Vinyl chloride	20	1.5-41.7	17.3	232
Chloroethane	20	4.6-36.4	18.1	209
Methylene chloride	20	11.8-31.3	19.6	224
Acrolein	62	4.5-104.4	—	201
Acrylonitrile	58	13.2-115.2	—	202
1,1-Dichloroethene	20	11.3-32.1	19.7	216
1,1-Dichloroethane	20	15.5-27.8	17.7	214
trans-1,2-Dichloroethene	20	13.6-28.3	20.4	217
Chloroform	20	15.7-26.1	17.8	211
1,2-Dichloroethane	20	8.1-34.0	19.6	215
1,1,1-Trichloroethane	20	12.8-30.1	16.8	228
Carbon tetrachloride	20	8.0-27.8	18.9	206
Bromodichloromethane	20	9.8-29.7	19.8	212
1,2-Dichloropropane	20	14.7-28.2	20.8	218
trans-1,3-Dichloropropene	20	12.7-25.6	19.1	220
Trichloroethene	20	14.1-27.1	17.8	230
Benzene	20	14.3-27.8	18.9	203
Dibromochloromethane	20	4.8-29.2	22.7	208
1,1,2-Trichloroethane	20	14.3-28.2	19.5	229
cis-1,3-Dichloropropene	20	10.3-26.8	18.2	219
2-Chloroethyl vinyl ether	20	10.1-32.1	21.7	210
Bromoform	20	3.0-30.6	21.6	205
Tetrachloroethene	20	13.3-28.4	22.7	226
1,1,2,2-Tetrachloroethane	20	14.7-26.1	20.1	225
Toluene	20	15.2-25.6	20.1	227
Chlorobenzene	20	11.5-28.6	19.5	207
Ethyl benzene	20	13.4-27.6	18.3	221
1,3-Dichlorobenzene	26	18.5-36.7	24.9	234
1,2-Dichlorobenzene	26	11.5-41.9	24.4	233
1,4-Dichlorobenzene	20	3.7-35.6	19.3	235
Diethyl Benzene	44	25.9-62.9	—	237
Ethyl Ether	35	26.9-49.5	—	236
Xylene	44	21.0-66.7	40.6	238
MEK	20	9.1-39.4	22.0	240
Acetone	20	9.6-38.0	21.7	242

Limits in effect as of August 5, 1996

FREE-COL LABORATORIES, INC.
VOA REFERENCE CONTROL INFORMATION
(CLP - CALIBRATION VERIFICATION LIMITS)

Date 11-6-96 Analyst Echlund

Samples associated with this reference control:

611-01-408 → 417

Parameter	Target Value ug/L	Acceptance Limits ug/L	Assayed Value ug/L	File#
MIBK	20	14.0-29.7	21.7	243
Tetrahydrofuran	45	34.8-60.3	—	244
Carbondisulfide	20	11.0-30.4	17.6	245
Styrene	20	12.4-30.0	18.8	246
Vinyl Acetate	20	11.0-27.5	22.3	247
Amyl Acetate	44	14.7-64.6	—	248
Methyl Butyl Ketone	20	10.3-33.9	22.0	249

FREE-COL LABORATORIES, INC.
VOA BLANK INFORMATION
(CLP - CALIBRATION BLANK LIMITS)

Date 11-6-96 Analyst Eckland

Samples associated with this blank:

6-11-05
6-11-01-408 → 417

Parameter	Blank Value
Units = ug/L	
Chloromethane	<10
Bromomethane	<10
Vinyl chloride	<10
Chloroethane	<10
Methylene chloride	<5
Acrolein	-
Acrylonitrile	-
1,1-Dichloroethene	<5
1,1-Dichloroethane	↓
trans-1,2-Dichloroethene	
Chloroform	
1,2-Dichloroethane	
1,1,1-Trichloroethane	
Carbon tetrachloride	
Bromodichloromethane	
1,2-Dichloropropane	
trans-1,3-Dichloropropene	
Trichloroethene	
Benzene	
Dibromochloromethane	
1,1,2-Trichloroethane	
cis-1,3-Dichloropropene	↓
2-Chloroethyl vinyl ether	<10
Bromoform	<5
Tetrachloroethene	↓
1,1,2,2-Tetrachloroethane	
Toluene	
Chlorobenzene	
Ethyl benzene	
1,3-Dichlorobenzene	
1,2-Dichlorobenzene	
1,4-Dichlorobenzene	↓
Xylene	<5
2-Butanone - MEK	<100
4-Methyl-2-pentanone	<50
Acetone	<100
Syrene	<5

FREE-COL LABORATORIES, INC.
VOA BLANK INFORMATION
(CLP - CALIBRATION BLANK LIMITS)

Date 11-6-96 Analyst Ecklund

Samples associated with this blank:

611-01-408 → 417

Parameter	Blank Value
Units = ug/L	
Carbon Disulfide	<5
Vinyl Acetate	<50
2-Hexanone - MBK	<50
Dichlorofluoromethane	—
1,1,1,2-Tetrachloroethane	
Trichlorofluoromethane	
1,2,3-Trichloropropane	
3-Chloro-1-propene	
1,2-Dibrmomethane	
cis,1,2-Dichloroethene	

Limits in effect as of August 5, 1996

FREE-COL LABORATORIES, INC.
VOA REFERENCE CONTROL INFORMATION
(CLP - CALIBRATION VERIFICATION LIMITS)

Date 11/7/96 Analyst Eckblund

Samples associated with this reference control:

6-11-01-408 → 417

Parameter	Target Value ug/L	Acceptance Limits ug/L	Assayed Value ug/L	File#
Chloromethane	20	5.4-34.5	17.0	223
Bromomethane	20	7.8-39.4	18.4	222
Vinyl chloride	20	1.5-41.7	17.5	232
Chloroethane	20	4.6-36.4	17.6	209
Methylene chloride	20	11.8-31.3	18.3	224
Acrolein	62	4.5-104.4	—	201
Acrylonitrile	58	13.2-115.2	—	202
1,1-Dichloroethene	20	11.3-32.1	19.4	216
1,1-Dichloroethane	20	15.5-27.8	17.5	214
~~trans~~-1,2-Dichloroethenes	20	13.6-28.3	20.4	217
Chloroform	20	15.7-26.1	18.6	211
1,2-Dichloroethane	20	8.1-34.0	20.4	215
1,1,1-Trichloroethane	20	12.8-30.1	18.2	228
Carbon tetrachloride	20	8.0-27.8	18.6	206
Bromodichloromethane	20	9.8-29.7	19.1	212
1,2-Dichloropropane	20	14.7-28.2	16.5	218
trans-1,3-Dichloropropene	20	12.7-25.6	17.4	220
Trichloroethene	20	14.1-27.1	18.3	230
Benzene	20	14.3-27.8	19.3	203
Dibromochloromethane	20	4.8-29.2	19.6	208
1,1,2-Trichloroethane	20	14.3-28.2	17.2	229
cis-1,3-Dichloropropene	20	10.3-26.8	16.4	219
2-Chloroethyl vinyl ether	20	10.1-32.1	20.1	210
Bromoform	20	3.0-30.6	20.8	205
Tetrachloroethene	20	13.3-28.4	17.0	226
1,1,2,2-Tetrachloroethane	20	14.7-26.1	22.0	225
Toluene	20	15.2-25.6	17.8	227
Chlorobenzene	20	11.5-28.6	19.2	207
Ethyl benzene	20	13.4-27.6	17.8	221
1,3-Dichlorobenzene	26	18.5-36.7	—	234
1,2-Dichlorobenzene	26	11.5-41.9	—	233
1,4-Dichlorobenzene	20	3.7-35.6	—	235
Diethyl Benzene	44	25.9-62.9	—	237
Ethyl Ether	35	26.9-49.5	—	236
Xylene	44	21.0-66.7	41.8	238
MEK	20	9.1-39.4	23.2	240
Acetone	20	9.6-38.0	21.3	242

Limits in effect as of August 5, 1996

FREE-COL LABORATORIES, INC.
VOA REFERENCE CONTROL INFORMATION
(CLP - CALIBRATION VERIFICATION LIMITS)

Date 11/7/96 Analyst Eckelund

Samples associated with this reference control:

611-01-408 ⇒ 417

Parameter	Target Value ug/L	Acceptance Limits ug/L	Assayed Value ug/L	File#
MIBK	20	14.0-29.7	20.1	243
Tetrahydrofuran	45	34.8-60.3	-	244
Carbondisulfide	20	11.0-30.4	17.7	245
Styrene	20	12.4-30.0	18.4	246
Vinyl Acetate	20	11.0-27.5	18.7	247
Amyl Acetate	44	14.7-64.6	—	248
Methyl Butyl Ketone	20	10.3-33.9	22.0	249

FREE-COL LABORATORIES, INC.
VOA BLANK INFORMATION
(CLP - CALIBRATION BLANK LIMITS)

Date 11/7/96 Analyst Eckland

Samples associated with this blank:

611-01-408 ⇒ 417

Units = ug/L

Parameter	Blank Value
Chloromethane	<10
Bromomethane	↓
Vinyl chloride	↓
Chloroethane	↓
Methylene chloride	<5
Acrolein	–
Acrylonitrile	–
1,1-Dichloroethene	<5
1,1-Dichloroethane	↓
trans-1,2-Dichloroethene	↓
Chloroform	↓
1,2-Dichloroethane	↓
1,1,1-Trichloroethane	↓
Carbon tetrachloride	↓
Bromodichloromethane	↓
1,2-Dichloropropane	↓
trans-1,3-Dichloropropene	↓
Trichloroethene	↓
Benzene	↓
Dibromochloromethane	↓
1,1,2-Trichloroethane	↓
cis-1,3-Dichloropropene	↓
2-Chloroethyl vinyl ether	<10
Bromoform	<5
Tetrachloroethene	↓
1,1,2,2-Tetrachloroethane	↓
Toluene	↓
Chlorobenzene	↓
Ethyl benzene	↓
1,3-Dichlorobenzene	↓
1,2-Dichlorobenzene	↓
1,4-Dichlorobenzene	↓
Xylene	↓
2-Butanone - MEK	<10
4-Methyl-2-pentanone	<50
Acetone	<10
Syrene	<5

FREE-COL LABORATORIES, INC.
VOA BLANK INFORMATION
(CLP - CALIBRATION BLANK LIMITS)

Date 11/7/96 Analyst Ecklund

Samples associated with this blank:

611-01-403→417

Parameter	Blank Value
Units = ug/L	
Carbon Disulfide	<5
Vinyl Acetate	<50
2-Hexanone - MBK	<50
Dichlorofluoromethane	
1,1,1,2-Tetrachloroethane	
Trichlorofluoromethane	
1,2,3-Trichloropropane	
3-Chloro-1-propene	
1,2-Dibrmomethane	
cis,1,2-Dichloroethene	

Limits in effect as of August 5, 1996

FREE-COL LABORATORIES, INC.
VOA REPEAT CONTROL INFORMATION
(CLP - DUPLICATE SAMPLE LIMITS)

Date 11/7/96 Analyst Ecklund

Samples associated with this repeat control:

611-01-407 → 417

Sample used as repeat control: 611-05-079

AD = Absolute Difference RPD = Relative Percent Difference

Units = ug/L

Parameter	Samp. Value	Repeat Value	Accept AD	Accept RPD	Assayd AD/RPD	File
Chloromethane	<10	<10			~~0~~	820
Bromomethane	↓	↓			↓	819
Vinyl chloride				27		828
Chloroethane	↓	↓			↓	807
Methylene chloride	<5	<5		17	↓	821
Acrolein	-	-			-	800
Acrylonitrile	-	-			-	801
1,1-Dichloroethene	<5	<5			~~0~~	813
1,1-Dichloroethane	↓	↓		41	↓	811
trans-1,2-Dichloroethene				28		814
Chloroform				14		809
1,2-Dichloroethane						812
1,1,1-Trichloroethane				27		825
Carbon tetrachloride						804
Bromodichloromethane				79		810
1,2-Dichloropropane						815
trans-1,3-Dichloropropene						817
Trichloroethene				32		827
Benzene				49		802
Dibromochloromethane				70		806
1,1,2-Trichloroethane						826
cis-1,3-Dichloropropene	↓	↓				816
2-Chloroethyl vinyl ether	<10	<10				808
Bromoform	<5	<5				803
Tetrachloroethene	↓	↓		33		823
1,1,2,2-Tetrachloroethane						822
Toluene				38		824
Chlorobenzene				24		805
Ethyl benzene				5		818
1,3-Dichlorobenzene						830
1,2-Dichlorobenzene						829
1,4-Dichlorobenzene	↓	↓		36		831
Acetone	<100	<100		26	↓	836

Limits in effect as of August 5, 1996

FREE-COL LABORATORIES, INC.
VOA REPEAT CONTROL INFORMATION
(CLP - DUPLICATE SAMPLE LIMITS)

Date 11/7/96 Analyst Eckelund
Samples associated with this repeat control:

611-01-408 ⇒ 417

Sample used as repeat control: 611-05-079
AD = Absolute Difference RPD = Relative Percent Difference

Units = ug/L

Parameter	Samp. Value	Repeat Value	Accept AD	Accept RPD	Assayd AD/RPD	File
3-Chloro-1-propene						
Dichlorodifluoromethane						
Methyl Ethyl Ketone	<100	<100				e
MIBK	<50	<50				e
1,1,1,2-Tetrachloroethane						
Trichlorofluoromethane						
1,2,3-Trichloropropane						
1,2-Dibromomethane						
Cis-1,2-Dichloroethane						
Xylene	<5	<5				e
METHYL BUTYL KETONE	<50	<50				↓
STYRENE	<5	<5				↓
CARBON DISULFIDE	<5	<5				↓
VINYL ACETATE	<50	<50				↓

Limits in effect as of August 5, 1996

FREE-COL LABORATORIES, INC.
VOA SPIKED CONTROL INFORMATION
(CLP - ANALYTICAL SPIKED SAMPLE LIMITS)

Date 11/7/96 Analyst Ecklund

Samples associated with this spiked control:

611-01-408 → 417

Sample used as spiked control: 611-05-083

PARAMETER	SPIKE ADDED UG/L	SPIKED RESULT UG/L	SAMPLE RESULT UG/L	ACCEPT. LIMITS % REC.	ASSYD % REC.	FILE
Chloromethane	20	18	<10	31-187	90	520
Bromomethane	20	18	|	34-207	90	519
Vinyl chloride	20	16	|	26-183	80	528
Chloroethane	20	17	↓	55-168	85	507
Methylene chloride	20	22	<5	63-151	110	521
Acrolein	62	-	-	23-183	-	500
Acrylonitrile	58	-	-	52-186	-	501
1,1-Dichloroethene	20	20	<5	52-159	100	513
1,1-Dichloroethane	20	17	|	73-144	85	511
trans-1,2-Dichloroethene	20	18	|	64-151	90	514
Chloroform	20	17	|	68-142	85	509
1,2-Dichloroethane	20	20	|	54-155	100	512
1,1,1-Trichloroethane	20	18	|	59-158	90	525
Carbon tetrachloride	20	16	|	39-147	80	504
Bromodichloromethane	20	16	|	47-148	80	510
1,2-Dichloropropane	20	16	|	67-144	80	515
trans-1,3-Dichloropropene	20	19	|	56-141	95	517
Trichloroethene	20	18	|	64-130	90	527
Benzene	20	20	|	71-142	100	502
Dibromochloromethane	20	16	|	29-155	80	506
1,1,2-Trichloroethane	20	16	|	61-146	80	526
cis-1,3-Dichloropropene	20	17	↓	46-149	85	516
2-Chloroethyl vinyl ether	20	16	<10	7-183	80	508
Bromoform	20	16	<5	10-149	80	503
Tetrachloroethene	20	16	|	50-160	80	523
1,1,2,2-Tetrachloroethane	20	22	|	44-163	110	522
Toluene	20	16	|	73-130	80	524
Chlorobenzene	20	18	|	72-131	90	505
Ethyl benzene	20	18	↓	62-139	90	518
1,3-Dichlorobenzene	26	-	-	60-161	-	530
1,2-Dichlorobenzene	26	-	-	45-157	-	529
1,4-Dichlorobenzene	20	-	-	36-174	-	531
Diethyl Benzene	44	-	-	71-137	-	533
Ethyl Ether	35	-	-	62-160	-	532
Xylenes	44	44.1	<5	72-130	93	534
MEK	20	22	<100	63-179	110	536

Limits in effect as of August 5, 1996

FREE-COL LABORATORIES, INC.
VOA SPIKED CONTROL INFORMATION
(CLP - ANALYTICAL SPIKED SAMPLE LIMITS)

Date 11/7/96 Analyst Ecklund

Samples associated with this spiked control:

611-01-408 → 417

Sample used as spiked control: 611-05-083

PARAMETER	SPIKE ADDED UG/L	SPIKED RESULT UG/L	SAMPLE RESULT UG/L	ACCEPT. LIMITS % REC.	ASSYD % REC.	FILE
Acetone	20	23	<100	72-154	115	538
MIBK	20	15	<50	53-160	75	539
Ethyl Acetate	45	-	-	71-140	-	535
Tetrahydrofuran	45	-	-		-	
Carbondisulfide	20	24	<5		120	
Styrene	20	17	<5		85	
Vinyl Acetate	20	18	<50		90	
Amyl Acetate	44	-	-		-	
Methyl Butyl Ketone	20	25	<50		125	

FIGURE E2

ENVIRONMENTAL SAMPLE DESCRIPTION AND CHAIN OF CUSTODY RECORD

ATTACHMENT #2

DATE: 10/31/96

RESULTS REQUIRED BY: ____

VERBAL RESULTS NEEDED? ____

LABORATORY: Free-Col

HARRISON DIVISION, GMC
200 UPPER MOUNTAIN ROAD
LOCKPORT, NEW YORK 14094
PHONE: (716) ~~439~~ 685-2300
CONTACT: Steve Blair

SAMPLE TYPE: (CIRCLE)
1) WASTEWATER 2) DRINKING WATER (3) MONITORING WELL) 4) SOIL
5) SLUDGE 6) SOLID WASTE 7) OIL 8) INDUSTRIAL HYGIENE
9) OTHER ____

SAMPLE DESCRIPTION: Please test these after those collected on 10/30/96
Please call to discuss how to test MW-5P

SAMPLE #	LOCATION	TIME	PARAMETERS	SAMPLE BOTTLE LOT # (OPTIONAL)
	MW-5B		SW-846 - Method 8240	
	MW-5P		SW-846 - Method 8240	

MINIMUM DETECTION LEVELS REQUIRED? ____

SAMPLE INTERFERENCES: ____

REASON FOR TEST (COMPARISON OF AREAS, BACKGROUND, ETC.) ____

BOTTLES ~~RECEIVED~~ Relinquished BY: (DATE/TIME) [HRD PERSONNEL]	BOTTLES ~~RELINQUISHED~~ Received BY: (DATE/TIME) [HRD PERSONNEL]
[signature] 11/1/96	
SAMPLES RELINQUISHED BY: (DATE/TIME) [HRD PERSONNEL]	**BOTTLES RECEIVED BY: (DATE/TIME) [LAB PERSONNEL]**
	Will F Slater 11-1-96 1220
SAMPLE COLLECTED BY:	**RECEIVED BY: [DATE, TIME, LAB SIGNATURE]**
	Tom Watt 11-1-96
	[signature] 11/1/96 – 11/14/96

FREE-COL LABORATORIES, INC.
P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

11/19/96

TO: DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094-1896

P.O. # HH48938

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

SAMPLE ID : MW-5P
10/31/96

LAB ID 61101418
DATE RECEIVED: 11/01/96

PARAMETER	RESULTS	UNITS	DATE AND ANALYST
VOLATILE COMPOUNDS			
Chloromethane	<3,000 D	MG/KG	11/15/96 ECKLUND
Bromomethane	<3,000 D		
Vinyl Chloride	<3,000 D		
Chloroethane	<3,000 D		
Methylene Chloride	<1,500 D		
Acetone	<30,000 D		
Carbon Disulfide	<1,500 D		
1,1-Dichloroethene	<1,500 D		
1,1-Dichloroethane	<1,500 D		
1,2-Dichloroethenes (Total)***	<1,500 D		
Chloroform	<1,500 D		
1,2-Dichloroethane	<1,500 D		
2-Butanone	<30,000 D		
1,1,1-Trichloroethane	<1,500 D		
Carbon Tetrachloride	<1,500 D		
Vinyl Acetate	<15,000 D		
Bromodichloromethane	<1,500 D		
1,1,2,2-Tetrachloroethane	<1,500 D		
1,2-Dichloropropane	<1,500 D		
trans-1,3-Dichloropropene	<1,500 D		
Trichloroethene	430,000		
Dibromochloromethane	<1,500 D		
1,1,2-Trichloroethane	<1,500 D		

***EPA Methods 601 and 624 and SW 846 Methods 8010 and 8240 do not differentiate the co-eluting cis and trans-1,2-dichloroethenes. The result reported is the sum of both compounds.

FREE-COL LABORATORIES, INC.
P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466
11/19/96

TO: DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094-1896

P.O. # HH48938

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

SAMPLE ID : MW-5P
10/31/96

LAB ID 61101418
DATE RECEIVED: 11/01/96

PARAMETER	RESULTS	UNITS	DATE AND ANALYST
VOLATILE COMPOUNDS Continued			
Benzene	<1,500 D	MG/KG	11/15/96 ECKLUND
cis-1,3-Dichloropropene	<1,500 D		
2-Chloroethylvinyl ether	<3,000 D		
Bromoform	<1,500 D		
2-Hexanone	<15,000 D		
4-Methyl-2-pentanone	<15,000 D		
Tetrachloroethene	640,000		
Toluene	<1,500 D		
Chlorobenzene	<1,500 D		
Ethylbenzene	<1,500 D		
Styrene	<1,500 D		
Total Xylenes	<1,500 D		

Volatile Compounds - Method 8240A
"Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", SW-846, Third Edition, U.S. Environmental Protection Agency. Revised 1986.

QUALITY ASSURANCE SUPERVISOR
FREE-COL LABORATORIES

pc: Mr. Steve Blair, GZA

FREE-COL LABORATORIES, INC.
P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

TO:

Results expressed as MG/KG or % are calculated on an as received weight basis, with two exceptions: % volatile solids and % fixed solids (% ash) are expressed on a dry weight basis.

ANALYTICAL REPORT FORM

CODE B: This analyte was detected in the associated blank as well as in the sample. It indicates possible/probable contamination. The data user may subtract the blank value from the sample value at his/her discretion.

CODE D: Detection limit change due to a dilution.

CODE R: The percent recovery on the spiked sample associated with this sample was not within the acceptance limits of 75% - 125%

CODE S: This result was obtained by Method of Standard Additions.

CODE NA: Not Applicable

CODE ND: Not Detectable

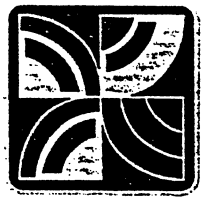
PRC: Preparation Reference Control

VOID: The sample plus spike concentration exceeded the linear range of the standard curve.

CODE Q: Values for parameters quantified in this sample have been adjusted for recoveries of the analytical matrix spike. The adjustments have been based on the matrix recoveries from this sample. Adjusted values are not given where sample values were less than the detection limit or where spike recoveries are equal to 100%

CODE J: This result is an estimated value. It indicates that the compound meets the mass spectral data identification criteria. The result is less than the quantitation limit but greater than zero.

FREE-COL LABORATORIES, INC.
P.O. Box 557, Cotton Road
Meadville, Pennsylvania 16335-0557
Phone: Area Code 814/724-6242
FAX: Area Code 814/333-1468



ENVIRONMENTAL
OCCUPATIONAL HEALTH
FOOD SCIENCE
SPECIALISTS

QUALITY CONTROL INFORMATION

Free-Col Laboratories analyzes control samples at specified frequencies during the analyses for the purpose of evaluating and documenting the precision and accuracy of the results. The attached quality control data, prepared at the time of analysis, reflect the results obtained for the various types of controls from the batch of samples described as follows:

General Motors Sample Identification	Free-Col ID
MW-5P 10/31/96	61101418

Special Notes:

1. The results on the analytical report may be given as mg/kg and related control value results may be given on the quality control data sheet as mg/L. The reason for this difference is that many control values are expressed in terms of the final concentration of the solvent or acid extract of a solid waste or oil sample.

Free-Col Laboratories, Inc.
Surrogate Spike Information
Method 8260

11/15/96 Analyst: Ecklund

Units: % Recovery

Type: W = Low/Medium Water
S = Low/Medium Soil/Sediment

	Dibromofluoromethane	Toluene-d_8	4-Bromofluorobenzene
Limits:			
Water	86-118	88-110	86-115
Soil/Sediment	80-120	81-117	74-121

Type (W/S)	Free-Col I.D.			
	611-13-096	108	99	104
	611-13-112	98	92	102
	611-14-086	94	94	106
	611-13-126	95	94	104
	611-14-118	96	90	105
	611-14-119	96	98	104
	611-14-120	97	91	98
	611-14-121	95	92	97
	611-14-122	95	91	102
	611-08-415	96	96	103
	611-08-416	97	96	104
	611-01-418	103	99	101

Limits in effect as of August 5, 1996

FREE-COL LABORATORIES, INC.
VOA REFERENCE CONTROL INFORMATION
(CLP - CALIBRATION VERIFICATION LIMITS)

Date 11/15/96 Analyst Eckelund

Samples associated with this reference control:

611-08-415/416
611-01-418

Parameter	Target Value ug/L	Acceptance Limits ug/L	Assayed Value ug/L	File#
Chloromethane	20	5.4-34.5	21.4	223
Bromomethane	20	7.8-39.4	20.2	222
Vinyl chloride	20	1.5-41.7	18.0	232
Chloroethane	20	4.6-36.4	16.6	209
Methylene chloride	20	11.8-31.3	18.8	224
Acrolein	62	4.5-104.4	36.0	201
Acrylonitrile	58	13.2-115.2	54.3	202
1,1-Dichloroethene	20	11.3-32.1	17.1	216
1,1-Dichloroethane	20	15.5-27.8	AC ~~36.2~~ 17.0	214
trans-1,2-Dichloroethene	20	13.6-28.3	~~17.~~ 20.2	217
Chloroform	20	15.7-26.1	17.8	211
1,2-Dichloroethane	20	8.1-34.0	20.0	215
1,1,1-Trichloroethane	20	12.8-30.1	18.7	228
Carbon tetrachloride	20	8.0-27.8	19.4	206
Bromodichloromethane	20	9.8-29.7	19.0	212
1,2-Dichloropropane	20	14.7-28.2	18.6	218
trans-1,3-Dichloropropene	20	12.7-25.6	21.4	220
Trichloroethene	20	14.1-27.1	19.3	230
Benzene	20	14.3-27.8	18.7	203
Dibromochloromethane	20	4.8-29.2	20.9	208
1,1,2-Trichloroethane	20	14.3-28.2	21.8	229
cis-1,3-Dichloropropene	20	10.3-26.8	22.5	219
2-Chloroethyl vinyl ether	20	10.1-32.1	20.2	210
Bromoform	20	3.0-30.6	23.0	205
Tetrachloroethene	20	13.3-28.4	22.0	226
1,1,2,2-Tetrachloroethane	20	14.7-26.1	16.2	225
Toluene	20	15.2-25.6	20.9	227
Chlorobenzene	20	11.5-28.6	20.5	207
Ethyl benzene	20	13.4-27.6	18.6	221
1,3-Dichlorobenzene	26	18.5-36.7	25.7	234
1,2-Dichlorobenzene	26	11.5-41.9	25.4	233
1,4-Dichlorobenzene	20	3.7-35.6	19.9	235
Diethyl Benzene	44	25.9-62.9	—	237
Ethyl Ether	35	26.9-49.5	—	236
Xylene	44	21.0-66.7	42.7	238
MEK	20	9.1-39.4	18.1	240
Acetone	20	9.6-38.0	17.6	242

Limits in effect as of August 5, 1996

FREE-COL LABORATORIES, INC.
VOA REPEAT CONTROL INFORMATION
(CLP - DUPLICATE SAMPLE LIMITS)

Date 11/15/96 Analyst E. Eklund

Samples associated with this repeat control:

611-08-415/416

611-01-413

Sample used as repeat control: 611-08-415

AD = Absolute Difference RPD = Relative Percent Difference

Parameter Units = ug/L	Samp. Value	Repeat Value	Accept AD	Accept RPD	Assayd AD/RPD	File
Chloromethane	<5	<5			#	820
Bromomethane						819
Vinyl chloride				27		828
Chloroethane						807
Methylene chloride	<2	<2		17		821
Acrolein	<10	<10				800
Acrylonitrile	<10	<10				801
1,1-Dichloroethene	<2	<2				813
1,1-Dichloroethane				41		811
trans-1,2-Dichloroethene				28		814
Chloroform				14		809
1,2-Dichloroethane						812
1,1,1-Trichloroethane				27		825
Carbon tetrachloride						804
Bromodichloromethane				79		810
1,2-Dichloropropane						815
trans-1,3-Dichloropropene						817
Trichloroethene				32		827
Benzene				49		802
Dibromochloromethane				70		806
1,1,2-Trichloroethane						826
cis-1,3-Dichloropropene						816
2-Chloroethyl vinyl ether	<5	<5				808
Bromoform	<2	<2				803
Tetrachloroethene				33		823
1,1,2,2-Tetrachloroethane						822
Toluene				38		824
Chlorobenzene				24		805
Ethyl benzene				5		818
1,3-Dichlorobenzene						830
1,2-Dichlorobenzene						829
1,4-Dichlorobenzene				36		831
Acetone	<100	<100		26		836

Limits in effect as of August 5, 1996

FREE-COL LABORATORIES, INC.
VOA REPEAT CONTROL INFORMATION
(CLP - DUPLICATE SAMPLE LIMITS)

Date 11/15/96 Analyst Echlerma

Samples associated with this repeat control:

Sample used as repeat control: 611-08-415

AD = Absolute Difference RPD = Relative Percent Difference

Units = ug/L

Parameter	Samp. Value	Repeat Value	Accept AD	Accept RPD	Assayd AD/RPD	File
3-Chloro-1-propene						
Dichlorodifluoromethane						
Methyl Ethyl Ketone	<100	<100			0	
MIBK	<50	<50			0	
1,1,1,2-Tetrachloroethane						
Trichlorofluoromethane						
1,2,3-Trichloropropane						
1,2-Dibromomethane						
Cis-1,2-Dichloroethane	<2	<2			0	
Xylene	<2	<2				
Methyl Butyl Ketone	<50	<50				
Styrene	<2	<2				
Carbon disulfide	<5	<5				
Vinyl Acetate	<50	<50				

FREE-COL LABORATORIES, INC.
VOA BLANK INFORMATION
(CLP - CALIBRATION BLANK LIMITS)

Date 11/15/96 Analyst Eklund

Samples associated with this blank:

611-08-415/416

611-01-418

Parameter	Blank Value
Units = ug/L	
Chloromethane	<5
Bromomethane	↓
Vinyl chloride	↓
Chloroethane	↓
Methylene chloride	<2
Acrolein	<10
Acrylonitrile	<10
1,1-Dichloroethene	<2
1,1-Dichloroethane	↓
trans-1,2-Dichloroethene	↓
Chloroform	↓
1,2-Dichloroethane	↓
1,1,1-Trichloroethane	↓
Carbon tetrachloride	↓
Bromodichloromethane	↓
1,2-Dichloropropane	↓
trans-1,3-Dichloropropene	↓
Trichloroethene	↓
Benzene	↓
Dibromochloromethane	↓
1,1,2-Trichloroethane	↓
cis-1,3-Dichloropropene	↓
2-Chloroethyl vinyl ether	<5
Bromoform	<2
Tetrachloroethene	↓
1,1,2,2-Tetrachloroethane	↓
Toluene	↓
Chlorobenzene	↓
Ethyl benzene	↓
1,3-Dichlorobenzene	↓
1,2-Dichlorobenzene	↓
1,4-Dichlorobenzene	↓
Xylene	↓
2-Butanone - MEK	<10
4-Methyl-2-pentanone	<10
Acetone	<10
Syrene	<2

FREE-COL LABORATORIES, INC.
VOA BLANK INFORMATION
(CLP - CALIBRATION BLANK LIMITS)

Date 11/15/96 Analyst Eckland

Samples associated with this blank:

Parameter	Blank Value
Units = ug/L	
Carbon Disulfide	<5
Vinyl Acetate	<10
2-Hexanone - MBK	<10
Dichlorofluoromethane	-
1,1,1,2-Tetrachloroethane	
Trichlorofluoromethane	
1,2,3-Trichloropropane	<5
3-Chloro-1-propene	-
1,2-Dibrmomethane	<2
cis,1,2-Dichloroethene	<2
THF	<5

Limits in effect as of August 5, 1996

FREE-COL LABORATORIES, INC.
VOA SPIKED CONTROL INFORMATION
(CLP - ANALYTICAL SPIKED SAMPLE LIMITS)

Date 11/15/96 Analyst Eckblund

Samples associated with this spiked control:

611-08-415/416

611-01-418

Sample used as spiked control: 611-08-012

PARAMETER	SPIKE ADDED UG/L	SPIKED RESULT UG/L	SAMPLE RESULT UG/L	ACCEPT. LIMITS % REC.	ASSYD % REC.	FILE
Chloromethane	20	22	<5	31-187	110	520
Bromomethane	20	20		34-207	100	519
Vinyl chloride	20	18		26-183	90	528
Chloroethane	20	18		55-168	90	507
Methylene chloride	20	22	<2	63-151	120	521
Acrolein	62	42	<10	23-183	68	500
Acrylonitrile	58	50	<10	52-186	86	501
1,1-Dichloroethene	20	21	<2	52-159	105	513
1,1-Dichloroethane	20	18		73-144	90	511
trans-1,2-Dichloroethene	20	19		64-151	95	514
Chloroform	20	18		68-142	90	509
1,2-Dichloroethane	20	23		54-155	115	512
1,1,1-Trichloroethane	20	17		59-158	85	525
Carbon tetrachloride	20	22		39-147	110	504
Bromodichloromethane	20	19		47-148	95	510
1,2-Dichloropropane	20	20		67-144	100	515
trans-1,3-Dichloropropene	20	22		56-141	110	517
Trichloroethene	20	122	100	64-130	110	527
Benzene	20	20	<2	71-142	100	502
Dibromochloromethane	20	24		29-155	120	506
1,1,2-Trichloroethane	20	22		61-146	110	526
cis-1,3-Dichloropropene	20	23		46-149	115	516
2-Chloroethyl vinyl ether	20	19	<5	7-183	95	508
Bromoform	20	21	<2	10-149	105	503
Tetrachloroethene	20	22		50-160	110	523
1,1,2,2-Tetrachloroethane	20	18		44-163	90	522
Toluene	20	24		73-130	120	524
Chlorobenzene	20	21		72-131	105	505
Ethyl benzene	20	20		62-139	100	518
1,3-Dichlorobenzene	26	26		60-161	100	530
1,2-Dichlorobenzene	26	26		45-157	100	529
1,4-Dichlorobenzene	20	20		36-174	100	531
Diethyl Benzene	44	-	-	71-137	-	533
Ethyl Ether	35	-	-	62-160	-	532
Xylenes	44	45	<2	72-130	102	534
MEK	20	18	<10	63-179	90	536

Limits in effect as of August 5, 1996

FREE-COL LABORATORIES, INC.
VOA SPIKED CONTROL INFORMATION
(CLP - ANALYTICAL SPIKED SAMPLE LIMITS)

Date 11/15/96 Analyst Eckland

Samples associated with this spiked control:

Sample used as spiked control: 611-08-012

PARAMETER	SPIKE ADDED UG/L	SPIKED RESULT UG/L	SAMPLE RESULT UG/L	ACCEPT. LIMITS % REC.	ASSYD % REC.	FILE
Acetone	20	19	<10	72-154	95	538
MIBK	20	20	<10	53-160	100	539
Ethyl Acetate	45	—	—	71-140	—	535
Tetrahydrofuran	45	—	—		—	
Carbondisulfide	20	20	<5		100	
Styrene	20	20	<2		100	
Vinyl Acetate	20	19	<10		95	
Amyl Acetate	44	—	—		—	
Methyl Butyl Ketone	20	18	<10		90	
cis-1,2-Dichloroethene	20	95	76		95	

Limits in effect as of August 5, 1996

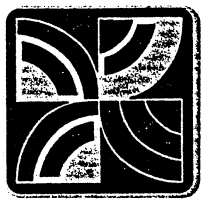
FREE-COL LABORATORIES, INC.
VOA REFERENCE CONTROL INFORMATION
(CLP - CALIBRATION VERIFICATION LIMITS)

Date 11/15/96 Analyst Eckland

Samples associated with this reference control:

Parameter	Target Value ug/L	Acceptance Limits ug/L	Assayed Value ug/L	File#
MIBK	20	14.0-29.7	20.0	243
Tetrahydrofuran	45	34.8-60.3	42.1	244
Carbondisulfide	20	11.0-30.4	21.4	245
Styrene	20	12.4-30.0	19.8	246
Vinyl Acetate	20	11.0-27.5	19.6	247
Amyl Acetate	44	14.7-64.6	—	248
Methyl Butyl Ketone	20	10.3-33.9	16.1	249

FREE-COL LABORATORIES, INC.
P.O. Box 557, Cotton Road
Meadville, Pennsylvania 16335-0557
Phone: Area Code 814/724-6242
FAX: Area Code 814/333-1466



ENVIRONMENTAL
OCCUPATIONAL HEALTH
FOOD SCIENCE
SPECIALISTS

DELPHI HARRISON THRM. SYS.
GENERAL MOTORS CORPORATION

MONITORING WELLS #'S 10,9,8,6,4,3S,7,5,11

SAMPLE DATES: 11/21/96
P.O.# HH48938

FREE-COL LABORATORIES, INC.
P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-8242
FAX: (814) 333-1466

12/03/96

TO: DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094

P.O. # HH48938

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER	SAMPLE ID :	MW 10	MW 9	MW 8
		11/21/96	11/21/96	11/21/96
	LAB ID	61122412	61122413	61122414
	DATE RECEIVED:	11/22/96	11/22/96	11/22/96
VOLATILE COMPOUNDS	UNITS = MG/L			
CHLOROMETHANE		<0.1 D	<0.1 D	<0.010
BROMOMETHANE		<0.1 D	<0.1 D	<0.010
VINYL CHLORIDE		<0.1 D	0.16	0.049
CHLOROETHANE		<0.1 D	<0.1 D	<0.010
METHYLENE CHLORIDE		<0.05 D	<0.05 D	<0.005
ACETONE		<1 D	<1 D	<0.10
CARBON DISULFIDE		<0.05 D	<0.05 D	<0.005
1,1,-DICHLOROETHENE		<0.05 D	<0.05 D	0.005
1,1,-DICHLOROETHANE		<0.05 D	<0.05 D	<0.005
1,2-DICHLORO***		1.7	3.2	2.6
CHLOROFORM		<0.05 D	<0.05 D	<0.005
1,2-DICHLOROETHANE		<0.05 D	<0.05 D	<0.005
2-BUTANONE		<1 D	<1 D	<0.10
1,1,1-TRICHLOROETHA*		<0.05 D	<0.05 D	<0.005
CARBON TETRACHLORIDE		<0.05 D	<0.05 D	<0.005
VINYL ACETATE		<0.5 D	<0.5 D	<0.050
BROMODICHLOROMETHANE		<0.05 D	<0.05 D	<0.005
1,1,2,2-TETRACHLORO*		<0.05 D	<0.05 D	<0.005
1,2-DICHLOROPROPANE		<0.05 D	<0.05 D	<0.005
TRANS-1,3-DICHLOROP*		<0.05 D	<0.05 D	<0.005
TRICHLOROETHENE		0.87	2.0	0.22
DIBROMOCHLOROMETHANE		<0.05 D	<0.05 D	<0.005
1,1,2-TRICHLOROETHA*		<0.05 D	<0.05 D	<0.005
BENZENE		<0.05 D	<0.05 D	<0.005
CIS-1,3-DICHLOROPRO*		<0.05 D	<0.05 D	<0.005

*Some of the above names have been abbreviated. Please reference the enclosed list for their complete names.

Please reference the following page(s) for date and analyst.

FREE-COL LABORATORIES, INC.
P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

12/03/96

TO: DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094

P.O. # HH48938

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER	SAMPLE ID :	MW 10	MW 9	MW 8
		11/21/96	11/21/96	11/21/96
	LAB ID	61122412	61122413	61122414
	DATE RECEIVED:	11/22/96	11/22/96	11/22/96
VOLATILE COMPOUNDS (Cont.)	UNITS =	MG/L		
2-CHLOR* VINYL ETHER		<0.1 D	<0.1 D	<0.010
BROMOFORM		<0.05 D	<0.05 D	<0.005
2-HEXANONE		<0.5 D	<0.5 D	<0.050
4-METHYL-2-PENTANONE		<0.5 D	<0.5 D	<0.050
TETRACHLOROETHENE		0.22	0.06	0.022
TOLUENE		<0.05 D	<0.05 D	<0.005
CHLOROBENZENE		<0.05 D	<0.05 D	<0.005
ETHYL BENZENE		<0.05 D	<0.05 D	<0.005
STYRENE		<0.05 D	<0.05 D	<0.005
TOTAL XYLENES		<0.05 D	<0.05 D	<0.005

Please reference the following page(s) for date and analyst.

*Some of the above names have been abbreviated. Please reference the enclosed list for their complete names.

FREE-COL LABORATORIES, INC.
P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

12/03/96

TO: DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094

P.O. # HH48938

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER		SAMPLE ID : MW 6	MW 4	MW 3S
		11/21/96	11/21/96	11/21/96
	LAB ID	61122415	61122416	61122417
	DATE RECEIVED:	11/22/96	11/22/96	11/22/96
VOLATILE COMPOUNDS	UNITS = MG/L			
CHLOROMETHANE		<0.1 D	<1 D	<1 D
BROMOMETHANE		<0.1 D	<1 D	<1 D
VINYL CHLORIDE		3.1	18	1.6
CHLOROETHANE		<0.1 D	<1 D	<1 D
METHYLENE CHLORIDE		0.05 D	<0.5 D	<0.5 D
ACETONE		<1 D	<10 D	<10 D
CARBON DISULFIDE		<0.05 D	<0.5 D	<0.5 D
1,1,-DICHLOROETHENE		<0.05 D	<0.5 D	<0.5 D
1,1,-DICHLOROETHANE		<0.05 D	<0.5 D	<0.5 D
1,2-DICHLORO***		8.2	120	190
CHLOROFORM		<0.05 D	<0.5 D	<0.5 D
1,2-DICHLOROETHANE		<0.05 D	<0.5 D	<0.5 D
2-BUTANONE		<1 D	<10 D	<10 D
1,1,1-TRICHLOROETHA*		<0.05 D	<0.5 D	<0.5 D
CARBON TETRACHLORIDE		<0.05 D	<0.5 D	<0.5 D
VINYL ACETATE		<0.5 D	<5 D	<5 D
BROMODICHLOROMETHANE		<0.05 D	<0.5 D	<0.5 D
1,1,2,2-TETRACHLORO*		<0.05 D	<0.5 D	<0.5 D
1,2-DICHLOROPROPANE		<0.05 D	<0.5 D	<0.5 D
TRANS-1,3-DICHLOROP*		<0.05 D	<0.5 D	<0.5 D
TRICHLOROETHENE		11	37	<0.5 D
DIBROMOCHLOROMETHANE		<0.05 D	<0.5 D	<0.5 D
1,1,2-TRICHLOROETHA*		<0.05 D	<0.5 D	<0.5 D
BENZENE		<0.05 D	<0.5 D	2.4
CIS-1,3-DICHLOROPRO*		<0.05 D	<0.5 D	<0.5 D

*Some of the above names have been abbreviated. Please reference the enclosed list for their complete names.

Please reference the following page(s) for date and analyst.

FREE-COL LABORATORIES, INC.
P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

12/03/96

TO: DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094

P.O. # HH48938

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER	SAMPLE ID :	MW 6	MW 4	MW 3S
		11/21/96	11/21/96	11/21/96
	LAB ID	61122415	61122416	61122417
	DATE RECEIVED:	11/22/96	11/22/96	11/22/96
VOLATILE COMPOUNDS (Cont.)	UNITS =	MG/L		
2-CHLOR* VINYL ETHER		<0.1 D	<1 D	<1 D
BROMOFORM		<0.05 D	<0.5 D	<0.5 D
2-HEXANONE		<0.5 D	<5 D	<5 D
4-METHYL-2-PENTANONE		<0.5 D	<5 D	<5 D
TETRACHLOROETHENE		57	<0.5 D	<0.5 D
TOLUENE		<0.05 D	<0.5 D	2.3
CHLOROBENZENE		<0.05 D	<0.5 D	<0.5 D
ETHYL BENZENE		<0.05 D	<0.5 D	1.8
STYRENE		<0.05 D	<0.5 D	0.5 D
TOTAL XYLENES		<0.05 D	<0.5 D	3.3

*Some of the above names have been abbreviated. Please reference the enclosed list for their complete names.

Please reference the following page(s) for date and analyst.

FREE-COL LABORATORIES, INC.
P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

12/03/96

TO: DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094

P.O. # HH48938

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER	SAMPLE ID :	MW 7	MW 5	MW 11
		11/21/96	11/21/96	11/21/96
	LAB ID	61122418	61122419	61122420
	DATE RECEIVED:	11/22/96	11/22/96	11/22/96
VOLATILE COMPOUNDS	UNITS = MG/L			
CHLOROMETHANE		<1 D	<1 D	<0.1 D
BROMOMETHANE		<1 D	<1 D	<0.1 D
VINYL CHLORIDE		3.1	<1 D	0.15
CHLOROETHANE		<1 D	<1 D	<0.1 D
METHYLENE CHLORIDE		<0.5 D	<0.5 D	<0.05 D
ACETONE		<10 D	<10 D	<1 D
CARBON DISULFIDE		<0.5 D	<0.5 D	<0.05 D
1,1,-DICHLOROETHENE		<0.5 D	<0.5 D	<0.05 D
1,1,-DICHLOROETHANE		<0.5 D	<0.5 D	<0.05 D
1,2-DICHLORO***		35	1.8	2.9
CHLOROFORM		<0.5 D	<0.5 D	<0.05 D
1,2-DICHLOROETHANE		<0.5 D	<0.5 D	<0.05 D
2-BUTANONE		<10 D	<10 D	<1 D
1,1,1-TRICHLOROETHA*		<0.5 D	<0.5 D	<0.05 D
CARBON TETRACHLORIDE		<0.5 D	<0.5 D	<0.05 D
VINYL ACETATE		<5 D	<5 D	<0.5 D
BROMODICHLOROMETHANE		<0.5 D	<0.5 D	<0.05 D
1,1,2,2-TETRACHLORO*		<0.5 D	<0.5 D	<0.05 D
1,2-DICHLOROPROPANE		<0.5 D	<0.5 D	<0.05 D
TRANS-1,3-DICHLOROP*		<0.5 D	<0.5 D	<0.05 D
TRICHLOROETHENE		850	260	1.9
DIBROMOCHLOROMETHANE		<0.5 D	<0.5 D	<0.05 D
1,1,2-TRICHLOROETHA*		<0.5 D	<0.5 D	<0.05 D
BENZENE		<0.5 D	<0.5 D	<0.05 D
CIS-1,3-DICHLOROPRO*		<0.5 D	<0.5 D	<0.05 D

*Some of the above names have been abbreviated. Please reference the enclosed list for their complete names.

Please reference the following page(s) for date and analyst.

FREE-COL LABORATORIES, INC.
P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

12/03/96

TO: DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094

P.O. # HH48938

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

PARAMETER	SAMPLE ID :	MW 7	MW 5	MW 11
		11/21/96	11/21/96	11/21/96
	LAB ID	61122418	61122419	61122420
	DATE RECEIVED:	11/22/96	11/22/96	11/22/96
VOLATILE COMPOUNDS (Cont.)	UNITS = MG/L			
2-CHLOR* VINYL ETHER		<1 D	<1 D	<0.1 D
BROMOFORM		<0.5 D	<0.5 D	<0.05 D
2-HEXANONE		<5 D	<5 D	<0.5 D
4-METHYL-2-PENTANONE		<5 D	<5 D	<0.5 D
TETRACHLOROETHENE		<0.5 D	120	0.07
TOLUENE		<0.5 D	<0.5 D	<0.05 D
CHLOROBENZENE		<0.5 D	<0.5 D	<0.05 D
ETHYL BENZENE		<0.5 D	<0.5 D	<0.05 D
STYRENE		<0.5 D	<0.5 D	<0.05 D
TOTAL XYLENES		<0.5 D	<0.5 D	<0.05 D

*Some of the above names have been abbreviated. Please reference the enclosed list for their complete names.

Please reference the following page(s) for date and analyst.

FREE-COL LABORATORIES, INC.
P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

12/03/96

TO: DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094

P.O. # HH48938

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

SAMPLE ID : TRIP BLANK
11/21/96

LAB ID 61122421
DATE RECEIVED: 11/22/96

PARAMETER	RESULTS	UNITS	DATE AND ANALYST
VOLATILE COMPOUNDS			
Chloromethane	<0.010	MG/L	11/27/96 ECKLUND
Bromomethane	<0.010		
Vinyl Chloride	<0.010		
Chloroethane	<0.010		
Methylene Chloride	<0.005		
Acetone	<0.1		
Carbon Disulfide	<0.005		
1,1-Dichloroethene	<0.005		
1,1-Dichloroethane	<0.005		
1,2-Dichloroethenes (Total)***	<0.005		
Chloroform	<0.005		
1,2-Dichloroethane	<0.005		
2-Butanone	<0.1		
1,1,1-Trichloroethane	<0.005		
Carbon Tetrachloride	<0.005		
Vinyl Acetate	<0.050		
Bromodichloromethane	<0.005		
1,1,2,2-Tetrachloroethane	<0.005		
1,2-Dichloropropane	<0.005		
trans-1,3-Dichloropropene	<0.005		
Trichloroethene	<0.005		
Dibromochloromethane	<0.005		
1,1,2-Trichloroethane	<0.005		

***EPA Methods 601 and 624 and SW 846 Methods 8010 and 8240 do not differentiate the co-eluting cis and trans-1,2-dichloroethenes. The result reported is the sum of both compounds.

FREE-COL LABORATORIES, INC.
P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466
12/05/96

TO: DELPHI HARRISON THRM.SYS
ATTN: MS. CATHERINE VER
200 UPPER MOUNTAIN RD.
LOCKPORT NY 14094

P.O. # HH48938

ACCOUNT NO. 01220

ANALYTICAL REPORT FORM

SAMPLE ID : TRIP BLANK
11/21/96

LAB ID 61122421
DATE RECEIVED: 11/22/96

PARAMETER	RESULTS	UNITS	DATE AND ANALYST
VOLATILE COMPOUNDS Continued			
Benzene	<0.005	MG/L	11/27/96 ECKLUND
cis-1,3-Dichloropropene	<0.005		
2-Chloroethylvinyl ether	<0.010		
Bromoform	<0.005		
2-Hexanone	<0.050		
4-Methyl-2-pentanone	<0.050		
Tetrachloroethene	<0.005		
Toluene	<0.005		
Chlorobenzene	<0.005		
Ethylbenzene	<0.005		
Styrene	<0.005		
Total Xylenes	<0.005		

Volatile Compounds - Method 8240A
"Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", SW-846, Third Edition, U.S. Environmental Protection Agency. Revised 1986.

John R Paraska
QUALITY ASSURANCE SUPERVISOR

pc: Mr. Steve Blair, GZA

FREE-COL LABORATORIES, INC.
P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

TO:

ANALYTICAL REPORT FORM

CODE B: This analyte was detected in the associated blank as well as in the sample. It indicates possible/probable contamination. The data user may subtract the blank value at his/her discretion.

CODE D: Detection limit change due to a dilution.

CODE R: The percent recovery on the spiked sample associated with this sample was not within the acceptance limits of 75% - 125%

CODE S: This result was obtained by Method of Standard Additions.

CODE NA: Not Applicable

CODE ND: Not Detectable

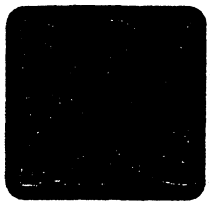
PRC: Preparation Reference Control

VOID: The sample plus spike concentration exceeded the linear range of the standard curve.

CODE Q: Values for parameters quantified in this sample have been adjusted for recoveries of the analytical matrix spike. The adjustments have been based on the matrix recoveries from this sample. Adjusted values are not given where sample values were less than the detection limit or where spike recoveries are equal to 100%

CODE J: This result is an estimated value. It indicates that the compound meets the mass spectral data identification criteria. The result is less than the quantitation limit.

FREE-COL LABORATORIES, INC.
P.O. Box 557, Cotton Road
Meadville, Pennsylvania 16335-0557
Phone: Area Code 814/724-6242
FAX: Area Code 814/333-1466



ENVIRONMENTAL
OCCUPATIONAL HEALTH
FOOD SCIENCE
SPECIALISTS

Unabbreviated Listing of Hazardous Substance List Compounds

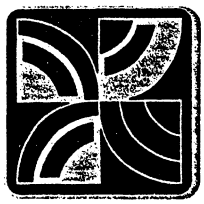
VOLATILE COMPOUNDS

Chloromethane
Bromomethane
Vinyl Chloride
Chloroethane
Methylene Chloride
Acetone
Carbon Disulfide
1,1-Dichloroethene
1,1-Dichloroethane
1,2-Dichloroethylenes (Total)***
Chloroform
1,2-Dichloroethane
2-Butanone
1,1,1-Trichloroethane
Carbon Tetrachloride
Vinyl Acetate
Ethyl Benzene
Styrene
Total Xylenes

Bromodichloromethane
1,1,2,2-Tetrachloroethane
1,2-Dichloropropane
trans-1,3-Dichloropropene
Trichloroethene
Dibromochloromethane
1,1,2-Trichloroethane
Benzene
cis-1,3-Dichloropropene
2-Chloroethyl Vinyl Ether
Bromoform
2-Hexanone
4-Methyl-2-pentanone
Tetrachloroethene
Toluene
Chlorobenzene

***EPA Methods 601 and 624 and SW 846 Methods 8010 and 8240 do not differentiate the co-eluting cis and trans-1,2-dichloroethenes. The result reported to you is the sum of both compounds.

FREE-COL LABORATORIES, INC.
P.O. Box 557, Cotton Road
Meadville, Pennsylvania 16335-0557
Phone: Area Code 814/724-6242
FAX: Area Code 814/333-1466



ENVIRONMENTAL
OCCUPATIONAL HEALTH
FOOD SCIENCE
SPECIALISTS

QUALITY CONTROL INFORMATION

Free-Col Laboratories analyzes control samples at specified frequencies during the analyses for the purpose of evaluating and documenting the precision and accuracy of the results. The attached quality control data, prepared at the time of analysis, reflect the results obtained for the various types of controls from the batch of samples described as follows:

General Motors Sample Identification	Free-Col ID
MW 10 11/21/96	61122412
MW 9 11/21/96	61122413
MW 8 11/21/96	61122414
MW 6 11/21/96	61122415
MW 4 11/21/96	61122416
MW 3S 11/21/96	61122417
MW 7 11/21/96	61122418
MW 5 11/21/96	61122419
MW 11 11/21/96	61122420
TRIP BLANK 11/21/96	61122421

Free-Col Laboratories, LTD.
Surrogate Spike Information
Method 8260

Date: 11/27/96 Analyst Eckland

Units: % Recovery

Type: W = Low/Medium Water
S = Low/Medium Soil/Sediment

	Dibromofluoromethane	Toluene-d_8	4-Bromofluoro-benzene
Limits:			
Water	86-118	88-110	86-115
Soil/Sediment	80-128	81-117	74-121

Type (S/W)	Free-Col I.D.			
	611-22-412	103	102	102
	611-22-413	104	102	100
	611-22-414	101	101	104
	611-22-415	98	101	100
	611-22-416	92	101	99
	611-22-417	96	102	101
	611-22-418	92	107	100
	611-22-419	109	93	98
	611-22-420	94	94	96
	611-22-421	100	93	90

FREE-COL LABORATORIES, INC.
VOA BLANK INFORMATION
(CLP - CALIBRATION BLANK LIMITS)

Date 11/27/96 Analyst Ecklund

Samples associated with this blank:

Parameter	Blank Value
Units = ug/L	
Chloromethane	<10
Bromomethane	
Vinyl chloride	
Chloroethane	
Methylene chloride	<5
Acrolein	<10
Acrylonitrile	<10
1,1-Dichloroethene	<5
1,1-Dichloroethane	
trans-1,2-Dichloroethene	
Chloroform	
1,2-Dichloroethane	
1,1,1-Trichloroethane	
Carbon tetrachloride	
Bromodichloromethane	
1,2-Dichloropropane	
trans-1,3-Dichloropropene	
Trichloroethene	
Benzene	
Dibromochloromethane	
1,1,2-Trichloroethane	
cis-1,3-Dichloropropene	
2-Chloroethyl vinyl ether	<10
Bromoform	<5
Tetrachloroethene	
1,1,2,2-Tetrachloroethane	
Toluene	
Chlorobenzene	
Ethyl benzene	
1,3-Dichlorobenzene	
1,2-Dichlorobenzene	
1,4-Dichlorobenzene	
Xylene	<5
2-Butanone - MEK	<100
4-Methyl-2-pentanone	<50
Acetone	<100
Syrene	<5

FREE-COL LABORATORIES, INC.
VOA BLANK INFORMATION
(CLP - CALIBRATION BLANK LIMITS)

Date 11/27/96 Analyst Eckelund

Samples associated with this blank:

Parameter	Blank Value
Units = ug/L	
Carbon Disulfide	<5
Vinyl Acetate	<50
2-Hexanone - MBK	<50
Dichlorofluoromethane	
1,1,1,2-Tetrachloroethane	
Trichlorofluoromethane	
1,2,3-Trichloropropane	
3-Chloro-1-propene	
1,2-Dibrmomethane	
cis,1,2-Dichloroethene	<5

Limits in effect as of August 5, 1996

FREE-COL LABORATORIES, INC.
VOA REFERENCE CONTROL INFORMATION
(CLP - CALIBRATION VERIFICATION LIMITS)

Date 11/27/96 Analyst Eckland

Samples associated with this reference control:

Parameter	Target Value ug/L	Acceptance Limits ug/L	Assayed Value ug/L	File#
Chloromethane	20	5.4-34.5	18.9	223
Bromomethane	20	7.8-39.4	17.5	222
Vinyl chloride	20	1.5-41.7	16.4	232
Chloroethane	20	4.6-36.4	17.0	209
Methylene chloride	20	11.8-31.3	19.5	224
Acrolein	62	4.5-104.4	-	201
Acrylonitrile	58	13.2-115.2	-	202
1,1-Dichloroethene	20	11.3-32.1	18.1	216
1,1-Dichloroethane	20	15.5-27.8	19.9	214
trans-1,2-Dichloroethene	20	13.6-28.3	23.7	217
Chloroform	20	15.7-26.1	19.4	211
1,2-Dichloroethane	20	8.1-34.0	21.7	215
1,1,1-Trichloroethane	20	12.8-30.1	16.8	228
Carbon tetrachloride	20	8.0-27.8	18.2	206
Bromodichloromethane	20	9.8-29.7	19.4	212
1,2-Dichloropropane	20	14.7-28.2	17.1	218
trans-1,3-Dichloropropene	20	12.7-25.6	12.8	220
Trichloroethene	20	14.1-27.1	19.4	230
Benzene	20	14.3-27.8	22.3	203
Dibromochloromethane	20	4.8-29.2	18.2	208
1,1,2-Trichloroethane	20	14.3-28.2	18.7	229
cis-1,3-Dichloropropene	20	10.3-26.8	19.3	219
2-Chloroethyl vinyl ether	20	10.1-32.1	17.0	210
Bromoform	20	3.0-30.6	20.9	205
Tetrachloroethene	20	13.3-28.4	19.5	226
1,1,2,2-Tetrachloroethane	20	14.7-26.1	20.2	225
Toluene	20	15.2-25.6	19.9	227
Chlorobenzene	20	11.5-28.6	19.7	207
Ethyl benzene	20	13.4-27.6	20.8	221
1,3-Dichlorobenzene	26	18.5-36.7	25.1	234
1,2-Dichlorobenzene	26	11.5-41.9	25.6	233
1,4-Dichlorobenzene	20	3.7-35.6	19.6	235
Diethyl Benzene	44	25.9-62.9	-	237
Ethyl Ether	35	26.9-49.5	-	236
Xylene	44	21.0-66.7	45.8	238
MEK	20	9.1-39.4	23.0	240
Acetone	20	9.6-38.0	17.5	242

Limits in effect as of August 5, 1996

FREE-COL LABORATORIES, INC.
VOA REFERENCE CONTROL INFORMATION
(CLP - CALIBRATION VERIFICATION LIMITS)

Date 11/27/96 Analyst Eckelund
Samples associated with this reference control:

Parameter	Target Value ug/L	Acceptance Limits ug/L	Assayed Value ug/L	File#
MIBK	20	14.0-29.7	18.0	243
Tetrahydrofuran	45	34.8-60.3	—	244
Carbondisulfide	20	11.0-30.4	19.9	245
Styrene	20	12.4-30.0	20.3	246
Vinyl Acetate	20	11.0-27.5	19.8	247
Amyl Acetate	44	14.7-64.6	—	248
Methyl Butyl Ketone	20	10.3-33.9	20.2	249

Limits in effect as of August 5, 1996

FREE-COL LABORATORIES, INC.
VOA REPEAT CONTROL INFORMATION
(CLP - DUPLICATE SAMPLE LIMITS)

Date 11/27/96 Analyst Ecklund
Samples associated with this repeat control:

Sample used as repeat control: 611-22-417
AD = Absolute Difference RPD = Relative Percent Difference

Units = mg/L

Parameter	Samp. Value	Repeat Value	Accept AD	Accept RPD	Assayd AD/RPD	File
Chloromethane	<1	<1			~~0~~	820
Bromomethane	<1	<1			~~0~~	819
Vinyl chloride	1.6	1.7		27	6.1%	828
Chloroethane	<1	<1			~~0~~	807
Methylene chloride	<0.5	<0.5		17	~~0~~	821
Acrolein	-	-			-	800
Acrylonitrile	-	-			-	801
1,1-Dichloroethene	<0.5	<0.5			~~0~~	813
1,1-Dichloroethane	<0.5	<0.5		41	~~0~~	811
~~trans~~-1,2-Dichloroethenes	190	190		28	~~0~~	814
Chloroform	<0.5	<0.5		14	~~0~~	809
1,2-Dichloroethane	↓	↓			↓	812
1,1,1-Trichloroethane				27		825
Carbon tetrachloride						804
Bromodichloromethane				79		810
1,2-Dichloropropane						815
trans-1,3-Dichloropropene						817
Trichloroethene				32		827
Benzene	2.4	2.5		49	4.1%	802
Dibromochloromethane	<0.5	<0.5		70	~~0~~	806
1,1,2-Trichloroethane	↓	↓			↓	826
cis-1,3-Dichloropropene						816
2-Chloroethyl vinyl ether	<1	<1				808
Bromoform	<0.5	<0.5				803
Tetrachloroethene	↓	↓		33		823
1,1,2,2-Tetrachloroethane					↓	822
Toluene	2.3	2.2		38	4.4%	824
Chlorobenzene	<0.5	<0.5		24	~~0~~	805
Ethyl benzene	1.8	1.8		5	~~0~~	818
1,3-Dichlorobenzene	-	-			-	830
1,2-Dichlorobenzene	-	-			-	829
1,4-Dichlorobenzene	-	-		36	-	831
Acetone	<10	<10		26	~~0~~	836

Limits in effect as of August 5, 1996

FREE-COL LABORATORIES, INC.
VOA REPEAT CONTROL INFORMATION
(CLP - DUPLICATE SAMPLE LIMITS)

Date 11/27/96 Analyst Eckelund

Samples associated with this repeat control:

Sample used as repeat control: 611-22-417

AD = Absolute Difference RPD = Relative Percent Difference

Units = mg/L

Parameter	Samp. Value	Repeat Value	Accept AD	Accept RPD	Assayd AD/RPD	File
3-Chloro-1-propene						
Dichlorodifluoromethane						
Methyl Ethyl Ketone	<10	<10			0	
MIBK	<5	<5			0	
1,1,1,2-Tetrachloroethane						
Trichlorofluoromethane						
1,2,3-Trichloropropane						
1,2-Dibromomethane						
Cis-1,2-Dichloroethane						
Xylene	3.3	3.3			0	
Carbon disulfide	<0.5	<0.5			0	
Vinyl Acetate	<5	<5			0	
Styrene	<0.5	<0.5			0	
MBK	<5	<5			0	

Limits in effect as of August 5, 1996

FREE-COL LABORATORIES, INC.
VOA SPIKED CONTROL INFORMATION
(CLP - ANALYTICAL SPIKED SAMPLE LIMITS)

Date 11/27/96 Analyst Echlund

Samples associated with this spiked control:

Sample used as spiked control: 611-22-411

PARAMETER	SPIKE ADDED UG/L	SPIKED RESULT UG/L	SAMPLE RESULT UG/L	ACCEPT. LIMITS % REC.	ASSYD % REC.	FILE
Chloromethane	20	19	<10	31-187	95	520
Bromomethane	20	18		34-207	90	519
Vinyl chloride	20	16		26-183	80	528
Chloroethane	20	17		55-168	85	507
Methylene chloride	20	20	<5	63-151	100	521
Acrolein	62	—	—	23-183	—	500
Acrylonitrile	58	—	—	52-186	—	501
1,1-Dichloroethene	20	18	<5	52-159	90	513
1,1-Dichloroethane	20	20		73-144	100	511
trans-1,2-Dichloroethene	20	24		64-151	120	514
Chloroform	20	17		68-142	85	509
1,2-Dichloroethane	20	22		54-155	110	512
1,1,1-Trichloroethane	20	19		59-158	85	525
Carbon tetrachloride	20	18		39-147	90	504
Bromodichloromethane	20	18		47-148	90	510
1,2-Dichloropropane	20	22		67-144	110	515
trans-1,3-Dichloropropene	20	19		56-141	95	517
Trichloroethene	20	19		64-130	95	527
Benzene	20	22		71-142	110	502
Dibromochloromethane	20	19		29-155	95	506
1,1,2-Trichloroethane	20	19		61-146	95	526
cis-1,3-Dichloropropene	20	19		46-149	95	516
2-Chloroethyl vinyl ether	20	17	<10	7-183	85	508
Bromoform	20	21	<5	10-149	105	503
Tetrachloroethene	20	20		50-160	100	523
1,1,2,2-Tetrachloroethane	20	20		44-163	100	522
Toluene	20	20		73-130	100	524
Chlorobenzene	20	20		72-131	100	505
Ethyl benzene	20	21		62-139	105	518
1,3-Dichlorobenzene	26	25		60-161	96	530
1,2-Dichlorobenzene	26	26		45-157	100	529
1,4-Dichlorobenzene	20	20		36-174	100	531
Diethyl Benzene	44	—	—	71-137	—	533
Ethyl Ether	35	—	—	62-160	—	532
Xylenes	44	46	<5	72-130	104	534
MEK	20	23	<100	63-179	115	536

Limits in effect as of August 5, 1996

FREE-COL LABORATORIES, INC.
VOA SPIKED CONTROL INFORMATION
(CLP - ANALYTICAL SPIKED SAMPLE LIMITS)

Date 11/27/91 Analyst Echlund

Samples associated with this spiked control:

Sample used as spiked control: 611-22-411

PARAMETER	SPIKE ADDED UG/L	SPIKED RESULT UG/L	SAMPLE RESULT UG/L	ACCEPT. LIMITS % REC.	ASSYD % REC.	FILE
Acetone	20	17	<100	72-154	85	538
MIBK	20	18	<50	53-160	90	539
Ethyl Acetate	45	-	-	71-140	-	535
Tetrahydrofuran	45	-	-		-	
Carbondisulfide	20	20	<5		100	
Styrene	20	20	<5		100	
Vinyl Acetate	20	20	<50		100	
Amyl Acetate	44	-			-	
Methyl Butyl Ketone	20	20	<50		100	

Quantitation Report File: GZ1122417

Data: GZ1122417.TI
Date: 2/96 14:17:00
Sample: 5 ML PURGE
Misc.:
Vola: Instrument: 5100 Weight: 0.000
Submitted by: - Analyst: AE/GB/BH Acct. No.:

ONT=AREA * REF AMNT/(REF AREA * RESP FACT) * *1000.0
Resp. fac. from average of whole .RL

	Name
1	PENTAFLUOROBENZENE (INT. STD.)
2	DIBROMOFLUOROMETHANE (SURR. STD.)
3	CHLOROMETHANE
4	BROMOMETHANE
5	VINYL CHLORIDE
6	CHRLOROETHANE
7	ACRYLONITRILE
8	CARBON DISULFIDE
9	ACETONE
10	METHYLENE CHLORIDE
11	TRANS-1,2-DICHLOROETHENE
12	1,1-DICHLOROETHANE
13	VINYL ACETATE
14	CIS-1,2-DICHLOROETHENE
15	METHYL ETHYL KETONE(2-BUTANONE
16	CHLOROFORM
17	1,1,1-TRICHLOROETHANE
18	TRICHLOROFLUOROMETHANE
19	DICHLORODIFLUOROMETHANE
20	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE
21	TETRAHYDROFURAN
22	METHYL-TERT-BUTYL ETHER
23	ETHYL ETHER
24	1,4-DIFLUROBENZENE(INT STD)
25	TOLUENE D-8(SUR. STD.)
26	CARBON TETRACHLORIDE
27	BENZENE
28	1,2-DICHLOROETHANE
29	TRICHLOROETHENE
30	1,2-DICHLOROPROPANE
31	BROMODICHLOROMETHANE
32	DIBROMOMETHANE
33	2-CHLOROETHYL VINYL ETHER
34	TRANS-1,3-DICHLOROPROPENE
35	METHYL ISOBUTYL KETONE
36	TOLUENE
37	CIS-1,3-DICHLOROPROPENE
38	1,1,2-TRICHLOROETHANE
39	CHLOROBENZENE-D5(INT STD)
40	BROMOFLUOROBENZENE(SURR STD)
41	TETRACHLOROETHENE
42	METHYL BUTYL KETONE
43	DIBROMOCHLOROMETHANE
44	1,2-DIBROMOETHANE
45	CHLOROBENZENE
46	ETHYL BENZENE
47	O-XYLENE

No	Name
48	M, P-XYLENE
49	STYRENE
50	BROMOFORM

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	168	370	5:52	1	1.000	A BB	37522.	50.000 MG/L	1.68
2	113	394	6:15	1	1.065	A BB	27046.	50.237 MG/L	1.68
3	NOT FOUND								
4	NOT FOUND								
5	62	176	2:47	1	0.476	A BB	27939.	16.703 MG/L	0.56
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	43	301	4:46	1	0.814	A BB	570.	0.410 MG/L	0.01
14	61	354	5:37	1	0.957	A BB	1643480.	1924.500 MG/L	64.51
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	85	219	3:28	1	0.592	A BB	4182.	20.703 MG/L	0.69
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	114	497	7:53	24	1.000	A BB	51183.	50.000 MG/L	1.68
25	98	713	11:18	24	1.435	A BB	581629.	440.208 MG/L	14.76
26	NOT FOUND								
27	78	465	7:22	24	0.936	A BB	33688.	24.972 MG/L	0.84
28	NOT FOUND								
29	95	543	8:37	24	1.093	A BB	1311.	3.290 MG/L	0.11
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	NOT FOUND								
34	NOT FOUND								
35	NOT FOUND								
36	91	725	11:30	24	1.459	A BB	327206.	198.695 MG/L	6.66
37	NOT FOUND								
38	NOT FOUND								
39	117	946	15:00	39	1.000	A BB	494572.	50.000 MG/L	1.68
40	95	1146	18:10	39	1.211	A BB	275823.	52.155 MG/L	1.75
41	NOT FOUND								
42	NOT FOUND								
43	NOT FOUND								
44	NOT FOUND								
45	NOT FOUND								
46	91	961	15:14	39	1.016	A BV	276915.	18.236 MG/L	0.61
47	91	1043	16:32	39	1.103	A BB	40863.	3.256 MG/L	0.11
48	91	972	15:25	39	1.027	A VB	348808.	29.778 MG/L	1.00
49	104	1051	16:40	39	1.111	A BB	193.	0.018 MG/L	0.00
50	NOT FOUND								

X 100 = 1,670.

X 100 = 192,450.

X 100 = 2,497.

22.5 X 100 = 2,250.

X 100 = 1,823

X 100 = 3,300.

Data: G1123417.TI
11/27/96 14:17:00
Sample: 5 ML PURGE
Conds.:
Formula: Instrument: 5100 Weight: 0
Submitted by: - Analyst: AE/GB/BH Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * *1000.0
Resp. fac. from average of whole .RL

No	Name
51	1,2,3-TRICHLOROPROPANE
52	1,4-DICHLOROBENZENE-D4 (INT. STD.)
53	1,1,2,2-TETRACHLOROETHANE
54	1,3-DICHLOROBENZENE
55	1,2-DICHLOROBENZENE
56	1,4-DICHLOROBENZENE
57	ISOPROPYL BENZENE
58	NAPHTHALENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount
51	NOT FOUND							
52	152	1338	21:13	52	1.000	A BB	241096.	50.000 MG/L
53	NOT FOUND							
54	NOT FOUND							
55	NOT FOUND							
56	NOT FOUND							
57	105	1103	17:29	52	0.824	A BB	9639.	0.642 MG/L
58	NOT FOUND							

FIGURE E2

ENVIRONMENTAL SAMPLE DESCRIPTION AND CHAIN OF CUSTODY RECORD

page - - -

ATTACHMENT #2

TE: 11/21/96

RESULTS REQUIRED BY: _____

VERBAL RESULTS NEEDED? _____

LABORATORY: Free-61

HARRISON DIVISION, GMC
200 UPPER MOUNTAIN ROAD
LOCKPORT, NEW YORK 14094
PHONE: (716) ~~439~~ 685-2300
CONTACT: Steve Blair
CZA

YPE: (E CIRCLE)
1) WASTEWATER 2) DRINKING WATER (3) MONITORING WELL 4) SOIL
5) SLUDGE 6) SOLID WASTE 7) OIL 8) INDUSTRIAL HYGIENE
9) OTHER _____

PLE DESCRIPTION: Please test in the following order - MW-10, MW-9, MW-8, MW-6, MW-4, MW-3, MW-7, MW-5, MW-11

SAMPLE #	LOCATION	TIME	PARAMETERS	SAMPLE BOTTLE LOT # (OPTIONAL)
✓	MW-10	11:52	SW-846 Method 8240	
✓	MW-9	12:16		
✓	MW-4	13:07		
✓	MW-6	14:05		
✓	MW-8	14:38		
✓	MW-5	15:06		
✓	MW-7	15:30		
✓	MW-35	15:35		

M DETECTION LEVELS REQUIRED? _____

E INTERFERENCES: _____

SON FOR TEST (COMPARISON OF AREAS, BACKGROUND, ETC.) _____

TLES RECEIVED BY: (DATE/TIME) [~~HRO~~ PERSONNEL] cab
Thomas J Mullikan 11/22/96 11:45

BOTTLES RELINQUISHED BY: (DATE/TIME) [HRO PERSONNEL]
11/22/96 11:45

S RELINQUISHED BY: (DATE/TIME) [~~HRO~~ PERSONNEL] cab
Thomas Mullikan 11/22/96 13:13

BOTTLES RECEIVED BY: (DATE/TIME) [LAB PERSONNEL]
Bill Slate 13:13 11-22-96

SAMPLE COLLECTED BY:

RECEIVED BY: [DATE, TIME, LAB SIGNATURE]
Darlene K. Swogger 11-22-96 14:25
Relinquished by 12/04/96 16:30

FIGURE E2

ENVIRONMENTAL SAMPLE DESCRIPTION AND CHAIN OF CUSTODY RECORD

page 1 of 2

ATTACHMENT #2

TE: 11/21/96

RESULTS REQUIRED BY: _____

VERBAL RESULTS NEEDED? _____

LABORATORY: Free - 61

HARRISON DIVISION, GMC
200 UPPER MOUNTAIN ROAD
LOCKPORT, NEW YORK 14094
PHONE: (716) ~~439~~ 685-2300
CONTACT: Steve Blash
62A

TYPE: (CIRCLE)
1) WASTEWATER 2) DRINKING WATER 3) MONITORING WELL 4) SOIL
5) SLUDGE 6) SOLID WASTE 7) OIL 8) INDUSTRIAL HYGIENE
9) OTHER _____

PLE DESCRIPTION: See sampling order on page 1 of 2

SAMPLE #	LOCATION	TIME	PARAMETERS	SAMPLE BOTTLE LOT # (OPTIONAL)
✓	MW-11	16[00]	SW 846 Method-8240	
✓	Trip Blank		"	

M DETECTION LEVELS REQUIRED? _____

E INTERFERENCES: _____

SON FOR TEST (COMPARISON OF AREAS, BACKGROUND, ETC.) _____

TLES RECEIVED BY: (DATE/TIME) (~~HRD~~ Lab PERSONNEL)
Thomas Mullyan 11/22/96 11:45

BOTTLES RELINQUISHED BY: (DATE/TIME) (HRD PERSONNEL)
Stephen Klein 11/22/96 11 #5

S RELINQUISHED BY: (DATE/TIME) (~~HRD~~ Lab PERSONNEL)
Thomas J Mullyan 11/22/96 13:13

BOTTLES RECEIVED BY: (DATE/TIME) (LAB PERSONNEL)
Bill Slater 11-22-96 13:13

SAMPLE COLLECTED BY: J

RECEIVED BY: (DATE, TIME, LAB SIGNATURE)
Darlene K Swagger 11-22-96 14:2

Returned to Lab - Stephen Klein 12/04/96 16:30