L011 030 0003 Bureau County
Mobil Chemical Company / DePue
ILD 062 340 641
Superfund - HRS

L011 030 5002 - Bureau County
Zinc Corp. of America / DePue
ILD 984 783 811
Superfund - HRS

Volume 2 of 2

CERCLA

Expanded Site Inspection Analytical Results

Illinois Environmental Protection Agency
P. O. Box 19276
Springfield, IL 62794-9276

EPA Region 5 Records Ctr.
287391

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APPENDIX K

Data Validation Checklist

Bruce Ford

Data Validation Checklist
Site Name: Mobil/NJ Zinc/DePue
SDG No.: 214416
Laboratory: IEPA
Page 1 of 44

PM's copy

PRELIMINARY REVIEW

1. *Chain-of-Custody*

	YES	NO	
a.	[X]	[ ]	Check chain-of-custody documentation for date/time sampled, date/time received in laboratory.
b.	[X]	[ ]	Check chain-of-custody documentation for proper documentation of transfers and signoffs.
c.	[X]	[ ]	Check chain-of-custody documentation for any inconsistencies or anomalies.

Comments:

2. *Case Narrative*

	YES	NO	
a.	[X]	[ ]	Review entire case narrative.
b.	[X]	[ ]	Check case narrative for completeness.
c.	[X]	[ ]	Check for proper authorization signature.

Comments:

Data Validation Checklist
Site Name: Mobil/Magnetic/Au Pue
SDG
No.: 214416
Laboratory: IEPA
Page 2 of 44

I. Holding Times

YES NO
[X] [ ] Check that all technical and/or contractual holding times were met, as required, for all fractions.

EPA Number	Lab Number	Date Coll.	Date Rec'd.	VOA Date Anal. (OK)	Semi-VOA Date Extr (OK)	Semi-VOA Date Anal.	Pesticide Date Extr	Pesticide Date Anal.
S301	D214511	3/12/92	3/12/92	3/13/92	3/16/92	3/19/92	3/13/92	4/15/92
S302	-416	3/10	3/12	3/12	3/16	3/19	3/13	4/15
S303	-417	3/10	3/12	3/12	3/16	3/19	3/13	4/15
S304	-418	3/10	3/12	vials broken	3/16	3/19	3/13	4/15
S305	-419	3/10	3/12	3/12	3/16	3/19	3/13	4/15
VBLKTB	-420	3/10	3/12	3/12				
X103	-504	3/12	3/12	3/17	3/12	3/20	3/16	4/14
X104	-505	3/10	3/12	3/18	3/12	3/20	3/16	4/14
X105	-506	3/10	3/12	3/18	3/12	3/19	3/16	4/14
X106	-507	3/10	3/12	3/18	3/12	3/19	3/16	4/15
X107	-508	3/11	3/12	3/18	3/12	3/17	3/16	4/15
X108	-509	3/10	3/12	3/17	3/12	3/19	3/16	4/15
X109	-510	3/11	3/12	3/18	3/12	3/19	3/16	~~4/15~~ 5/17/92

List below all samples (by sample number and fraction) qualified due to holding times.

* X109 Pest. Analysis of extract was 62 days from extraction date.

Data Validation Checklist
Site Name: Mobil/Magnac/DePue
SDG No.: 214416
Laboratory: IEPA
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II. GC/MS Instrument Performance Check

Fraction: (VOA) SemiVOA (*circle one*)

1. Evaluate Forms V and Raw Data

	YES	NO	
a.	[X]	[ ]	Check that Forms V are present and completed for each 12 hour time period.
b.	[X]	[ ]	Check for transcription errors between raw data and Forms V.
c.	[X]	[ ]	Check that the appropriate number of significant figures has been reported and that rounding errors have not occurred.
d.	[X]	[ ]	Check for calculation errors.

2. Verify Raw Data Format

YES	NO	
[X]	[ ]	Check mass spectral listing to determine that the mass assignment is correct and that the mass listing is normalize to the specified ion (m/z 95 for VOA, m/z 198 for SemiVOA).

3. Verify Ion Abundance Criteria

YES	NO	
[X]	[ ]	Check that all ion abundance criteria has been met.

4. Verify Background Correction

YES	NO	
[X]	[ ]	Check that tuning compound spectra were generated using appropriate background correction.

Comments:

Data Validation Checklist
Site Name: Mobil/Magnetic/DePue
SDG No.: 214416
Laboratory: IEPA
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III. Initial Calibration

GC/MS

Fraction: (VOA) SemiVOA (*circle one*)

1. ***Verify that the Correct Standard Concentrations Were Used.***

YES	NO	
[X]	[ ]	Check the Forms VI and the raw data to verify that the correct standard concentrations were used to calibrate the GC/MS instrument(s).

2. ***Verify that the Correct Initial Calibration was Used for Water and Low Level Soils.***

YES	NO	N/A	
[X]	[ ]	[ ]	Check that initial calibrations were performed as required for water/med. level soil and low level soil.

3. ***Verify Use of Correct Standards.***

YES	NO	N/A	
[ ]	[ ]	[X]	Check that the correct standard was used for quantitation of samples, if samples were analyzed immediately subsequent to initial calibration.

4. ***Evaluate Initial Calibration*** RRFs ***and*** $\overline{\text{RRF}}$s.

	YES	NO	
a.	[X]	[ ]	Check and recalculate the RRFs and $\overline{\text{RRF}}$s for several target compounds (at least one associated with each internal standard).
b.	[X]	[ ]	Check that, for all target compounds and surrogates, the $\overline{\text{RRF}}$s meet the applicable criteria. Note any "outliers" on the Calibration Outliers Form.

5. ***Evaluate Initial Calibration %RSDs.***

	YES	NO	
a.	[X]	[ ]	Check and recalculate the *%RSD* for several target compounds.
b.	[X]	[ ]	Check that the applicable *%RSD* criteria have been met. Note any "outliers" on the Calibration Outliers Form.

Comments:

_____

_____

Data Validation Checklist
Site Name: Mobil/N.J. Zinc/DePue
SDG No.: 214416
Laboratory: IEPA
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IV. Continuing Calibration

GC/MS

Fraction: VOA SemiVOA (*circle one*)

1. ***Verify Continuing Calibration Frequency.***

YES	NO	
[X]	[ ]	Check the continuing calibration raw data and Forms VII to verify that continuing calibration standards were analyzed at the proper frequency and that each continuing calibration was compared to the appropriate initial calibration.

2. ***Evaluate Continuing Calibration RRFs.***

	YES	NO	
a.	[X]	[ ]	Check and recalculate the continuing calibration *RRFs* for several compounds.
b.	[X]	[ ]	Check that all target compound and surrogate *RRFs* meet the criteria.

3. ***Evaluate Continuing Calibration %Ds.***

	YES	NO	
a.	[X]	[ ]	Check and recalculate the continuing calibration *%Ds* for several compounds.
b.	[X]	[ ]	Check that all target compound and surrogate *%Ds* meet the applicable criteria.

Comments:

VOLATILE CALIBRATION OUTLIERS

3/90 SOW

Lab Name: IEPA

Case: Mobil/Nazzine/DePue

Instrument # 5100	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME:	RRF	3/13/92 1121			3/17/92 922			3/18/92 1001								
		RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q
Chloromethane	0.010															
Bromomethane	0.100															
Vinyl Chloride	0.100															
Chloroethane	0.010					73.9	J									
Methylene Chloride	0.010															
Acetone	0.010															
Carbon Disulfide	0.010								56.2	J						
1,1-Dichloroethene	0.100															
1,1-Dichloroethane	0.200															
1,2-Dichloroethene (total)	0.010															
Chloroform	0.200															
1,2-Dichloroethane	0.100															
2-Butanone	0.010															
1,1,1-Trichloroethane	0.100															
Carbon Tetrachloride	0.100															
Bromodichloromethane	0.200															
1,2-Dichloropropane	0.010															
cis-1,3-Dichloropropene	0.200															
Trichloroethene	0.300															
Dibromochloromethane	0.100															
1,1,2-Trichloroethane	0.100															
Benzene	0.500															
trans-1,3-Dichloropropene	0.100															
Bromoform	0.100															
4-Methyl-2-Pentanone	0.010															
2-Hexanone	0.010															
Tetrachloroethene	0.200															
1,1,2,2-Tetrachloroethane	0.500															
Toluene	0.400															
Chlorobenzene	0.500															
Ethylbenzene	0.100															
Styrene	0.300															
Xylene(total)	0.300															
Bromofluorobenzene	0.300															

AFFECTED SAMPLES:

VBLK5L	VBLK5L2
X103	X104
X108	X105
X108MS	X106
X108MSD	X107
	X109

Reviewer's Initials/Date: am 7/21/92

3/92

Q - This column of flags should be applied to the analytes on the sample data sheets.

VOLATILE CALIBRATION OUTLIERS

3/90 SOW

Lab Name: IEPA

Case: Mobil/Nazzinc/DePue

Instrument # 5100B	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME:	RRF	2/24/92 1207			3/12/92 1210			3/13/92 1042								
		RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q
Chloromethane	0.010															
Bromomethane	0.100															
Vinyl Chloride	0.100															
Chloroethane	0.010															
Methylene Chloride	0.010															
Acetone	0.010															
Carbon Disulfide	0.010															
1,1-Dichloroethene	0.100															
1,1-Dichloroethane	0.200															
1,2-Dichloroethene (total)	0.010															
Chloroform	0.200															
1,2-Dichloroethane	0.100															
2-Butanone	0.010															
1,1,1-Trichloroethane	0.100															
Carbon Tetrachloride	0.100															
Bromodichloromethane	0.200															
1,2-Dichloropropane	0.010															
cis-1,3-Dichloropropene	0.200															
Trichloroethene	0.300															
Dibromochloromethane	0.100															
1,1,2-Trichloroethane	0.100															
Benzene	0.500															
trans-1,3-Dichloropropene	0.100															
Bromoform	0.100															
4-Methyl-2-Pentanone	0.010															
2-Hexanone	0.010															
Tetrachloroethene	0.200															
1,1,2,2-Tetrachloroethane	0.500															
Toluene	0.400															
Chlorobenzene	0.500															
Ethylbenzene	0.100															
Styrene	0.300															
Xylene(total)	0.300															
Bromofluorobenzene	0.300															

AFFECTED SAMPLES:

VBLKW1	VBLKW2
VBLKTB	S301
S302	
S303	
S305	
S302MS	
S302MSD	

Reviewer's Initials/Date: Am 7/21/92

3/92

Q - This column of flags should be applied to the analytes on the sample data sheets.

V. Blanks

Fraction: VOA SemiVOA Pest. (*circle one*)

1. ***Review Blank Results.***

YES NO
[X] [ ] Check all associated blanks for the presence of TCL compounds or TICs. Note all contaminated blanks ~~and associated samples~~ below.

2. ***Verify Blank Frequency.***

YES NO
[X] [ ] Check that blank analyses have been performed at the required frequency.

Blank Summary

Blank Sample No.	VBLKW1	VBLKW2	VBLKSL	VBLKSL2
Date Anal. or Extr.	3/12/92	3/13/92	3/17/92	3/18/92
Instrument	5100B	5100B	5100	5100

TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount
Acetone	4			$MeCl_2$	7	$MeCl_2$	5
				Acetone	5		

TIC Comp'd.	Amount	TIC Comp'd.	Amount	TIC Comp'd.	Amount	TIC Comp'd.	Amount

Data Validation Checklist
Site Name: Mobil/Nyjerie/DePue
SDG
No.: 214416
Laboratory: IEPA
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VI. Surrogate Spikes

GC/MS

Fraction: (VOA) SemiVOA (*circle one*)

1. ***Review Raw Data.***

YES NO
[X] [ ] Check raw data to verify that the recoveries on the Form II are accurate and within the limits.

2. ***Evaluate Surrogate Recovery Calculations.***

YES NO
[X] [ ] Check that the surrogate spike recoveries were calculated correctly and are free from transcription errors.

3 ***Evaluate Surrogate Recoveries.***

YES NO
a. [X] [ ] Check that reanalyses were performed as required.

b. [X] [ ] Check that surrogate recoveries in blanks met criteria.

4. ***Evaluate Reanalyses.***

YES NO
[X] [ ] Whenever there are two or more analyses for a particular sample, determine which are the best analyses to use. This determination must be performed in conjunction with the evaluation of the internal standard area response criteria. List below the results of the reviewers determinations.

Comments:
X108MS, X108MSD – high recoveries of 1,2-Dichloroethane.

Data Validation Checklist
Site Name: Mobil/Nozzle/DePue
SDG No.: 214416
Laboratory: IEPA
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VII. Matrix Spikes/Matrix Spike Duplicates

Fraction: (VOA) SemiVOA Pesticide (*circle one*)

1. ***Verify Frequency***

YES NO
[X] [ ] Check that MS and MSD samples were analyzed at the correct frequency.

2. ***Evaluate MS/MSD Criteria.***

YES NO
[X] [ ] Check MS/MSD results for *%R* and *RPD* are within the advisory limits.

3. ***Verify MS/MSD Calculations.***

YES NO
a. [X] [ ] Check raw data and verify that results are calculated correctly and are free from transcription errors.

b. [X] [ ] Check that *%Rs* and *RPDs* were calculated correctly.

4. ***Evaluate Sample Precision.***

YES NO
[X] [ ] Compare *%RSD* results of non-spiked compounds between the original result, MS and MSD.

Compound	Orig. Result	MS Result	MSD Result	%RSD
5302 MS + MSD - no non-spiked compounds				
	X108	X108 MS	X108 MSD	
Acetone	13	26	31	39.8 %

Comments:
X108 MS/MSD 1,1-Dichloroethene RPD high

VIII. Laboratory Control Samples

N/A

IX. Project Specific QA/QC

Evaluation Procedures must follow the project QAPjP.

N/A

X. Internal Standards

GC/MS

Fraction: (VOA) SemiVOA (*circle one*)

1. ***Evaluate Raw Data.***

YES	NO	
[X]	[ ]	Check raw data and verify that the internal standard retention times and areas reported on the Forms VIII are correct.

2. ***Verify RT and IS Area Criteria.***

YES	NO	
[X]	[ ]	Check that retention times and internal standard area meet the appropriate criteria.

3. ***Evaluate Reanalyses.***

YES	NO	
[X]	[ ]	Whenever there are two or more analyses for a particular sample, determine which are the best analyses to use. This determination must be performed in conjunction with the evaluation of the surrogate spike recovery criteria. List the results of the reviewers determinations in Section VI., Surrogate Spikes.

Comments:

XI. Target Compound Identification

GC/MS

Fraction: VOA SemiVOA (*circle one*)

1. ***Verify Relative Retention Time (RRT) Criteria.***

YES	NO	
[X]	[ ]	Check that the RRT of reported compounds is within the criteria.

2. ***Evaluate Target Compound Spectra.***

YES	NO	
[X]	[ ]	Check the sample target compound spectra against the laboratory standard spectra; verify that the specified criteria are met.

3. ***Evaluate Possible Carryover.***

YES	NO	
[X]	[ ]	Check the raw data of the samples as related to the samples analyzed previously to verify that sample carryover has not adversely affected results.

4. ***Evaluate Chromatograms.***

YES	NO	
[X]	[ ]	Check the sample chromatograms to verify that peaks are accounted for.

Comments:

XII. Compound Quantitation and Reported CRQLs

Fraction: (VOA) SemiVOA Pesticide (*circle one*)

1. ***Evaluate Quantitation of Sample Results.***

YES	NO	
[X]	[ ]	Check raw data to verify calculation of sample results.

2. ***Evaluate Quantitation Parameters.***

YES	NO	N/A	
[ ]	[ ]	[X]	For GC/MS analyses, check that the correct internal standard, quantitation ion, and *RRF* were used to quantitate results. Verify that the same internal standard, quantitation ion, and *RRF* are used throughout, in both the calibration and as well as the quantitation process.

3. ***Evaluate CRQLs.***

YES	NO	
[X]	[ ]	Check that the CRQLs have been adjusted to reflect all sample dilutions, concentrations, splits, cleanup activities, and dry weight factors.

Comments:

XIII. Tentatively Identified Compounds

GC/MS Only

Fraction: (VOA) SemiVOA (*circle one*)

1. ***Evaluate Tentative Identifications.***

   YES NO
   [X] [ ] Check that all TICs reported meet the identification guidelines.

2. ***Evaluate Raw Data.***

   YES NO
   [X] [ ] Check raw data to verify that the laboratory has generated a library search for all required peaks in the chromatograms for samples and blanks.

3. ***Evaluate Blanks.***

   YES NO
   [X] [ ] Check blank sample chromatograms to verify that TIC peaks present in samples are not found in blanks.

4. ***Examine Mass Spectra.***

   YES NO
   [X] [ ] Check all mass spectra for every sample.

5. ***Evaluate TIC Identifications.***

   YES NO
   [X] [ ] Since TIC library searches often yield several candidate compounds, all reasonable choices must be considered.

6. ***Evaluate Laboratory Artifacts and Contaminants.***

   YES NO
   [X] [ ] Check sample results and raw data to verify that common laboratory artifacts and contaminants are not reported as sample contaminants.

XIII. TICs continued

7. ***Evaluate Possibility of False Negatives.***

	YES	NO	N/A	
a.	[X]	[ ]	[ ]	Check to determine if target compounds have been identified and quantitated as TICs.
b.	[X]	[ ]	[ ]	If target compounds have been identified and quantitated as TICs, check to determine whether the false negative is an isolated occurrence or whether additional data may be affected. Comment on all such false negatives below.

8. ***Determine That Results Are From Proper Fraction.***

YES	NO	N/A	
[X]	[ ]	[ ]	Target compounds could be identified in more than one fraction; if this occurs, check that quantitation is from the proper fraction.

9. ***Verify That Internal Standards And Surrogates Are Not Searched.***

YES	NO	
[X]	[ ]	Check that library searches were not performed on internal standards or surrogates.

10. ***Verify Estimated Quantitation of TICs.***

YES	NO	
[X]	[ ]	Check that the estimated concentration of the TICs was made using an assumed *RRF* of one.

Comments:

XIV. GC/MS System Performance

Fraction: (VOA) SemiVOA (*circle one*)

1. ***Evaluate Overall System Performance.***

	YES	NO	
a.	[X]	[ ]	Check for high RIC background levels or shifts in absolute retention times of internal standards.
b.	[X]	[ ]	Check for excessive baseline rise at elevated temperature.
c.	[X]	[ ]	Check for extraneous peaks.
d.	[X]	[ ]	Check for loss of resolution.
e.	[X]	[ ]	Check for peak tailing or peak splitting that may result in inaccurate quantitation.

Comments:

Data Validation Checklist
Site Name: Mobil/Magnine / DePue
SDG No.: 214416
Laboratory: IEPA
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II. GC/MS Instrument Performance Check

Fraction: ~~VOA~~ SemiVOA (*circle one*)

1. ***Evaluate Forms V and Raw Data***

	YES	NO	
a.	[X]	[ ]	Check that Forms V are present and completed for each 12 hour time period.
b.	[X]	[ ]	Check for transcription errors between raw data and Forms V.
c.	[X]	[ ]	Check that the appropriate number of significant figures has been reported and that rounding errors have not occurred.
d.	[X]	[ ]	Check for calculation errors.

2. ***Verify Raw Data Format***

YES	NO	
[X]	[ ]	Check mass spectral listing to determine that the mass assignment is correct and that the mass listing is normalize to the specified ion (m/z 95 for VOA, m/z 198 for SemiVOA).

3. ***Verify Ion Abundance Criteria***

YES	NO	
[X]	[ ]	Check that all ion abundance criteria has been met.

4. ***Verify Background Correction***

YES	NO	
[X]	[ ]	Check that tuning compound spectra were generated using appropriate background correction.

Comments:

Data Validation Checklist
Site Name: Mobil/Magnac/DePue
SDG
No.: 214416
Laboratory: IEPA
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III. Initial Calibration

GC/MS

Fraction: VOA (SemiVOA) *(circle one)*

1. ***Verify that the Correct Standard Concentrations Were Used.***

YES	NO	
[X]	[ ]	Check the Forms VI and the raw data to verify that the correct standard concentrations were used to calibrate the GC/MS instrument(s).

2. ***Verify that the Correct Initial Calibration was Used for Water and Low Level Soils.***

YES	NO	N/A	
[ ]	[ ]	[X]	Check that initial calibrations were performed as required for water/med. level soil and low level soil.

3. ***Verify Use of Correct Standards.***

YES	NO	N/A	
[X]	[ ]	[ ]	Check that the correct standard was used for quantitation of samples, if samples were analyzed immediately subsequent to initial calibration.

4. ***Evaluate Initial Calibration*** RRFs ***and*** $\overline{\text{RRF}}$s.

	YES	NO	
a.	[X]	[ ]	Check and recalculate the RRFs and $\overline{\text{RRF}}$s for several target compounds (at least one associated with each internal standard).
b.	[X]	[ ]	Check that, for all target compounds and surrogates, the $\overline{\text{RRF}}$s meet the applicable criteria. Note any "outliers" on the Calibration Outliers Form.

5. ***Evaluate Initial Calibration %RSDs.***

	YES	NO	
a.	[X]	[ ]	Check and recalculate the *%RSD* for several target compounds.
b.	[X]	[ ]	Check that the applicable *%RSD* criteria have been met. Note any "outliers" on the Calibration Outliers Form.

Comments:

_____

_____

IV. Continuing Calibration

GC/MS

Fraction: VOA SemiVOA (*circle one*)

1. ***Verify Continuing Calibration Frequency.***

YES	NO	
[X]	[ ]	Check the continuing calibration raw data and Forms VII to verify that continuing calibration standards were analyzed at the proper frequency and that each continuing calibration was compared to the appropriate initial calibration.

2. ***Evaluate Continuing Calibration RRFs.***

	YES	NO	
a.	[X]	[ ]	Check and recalculate the continuing calibration *RRFs* for several compounds.
b.	[X]	[ ]	Check that all target compound and surrogate *RRFs* meet the criteria.

3. ***Evaluate Continuing Calibration %Ds.***

	YES	NO	
a.	[X]	[ ]	Check and recalculate the continuing calibration *%Ds* for several compounds.
b.	[X]	[ ]	Check that all target compound and surrogate *%Ds* meet the applicable criteria.

Comments:

SEMIVOLATILE CALIBRATION OUTLIERS

Page 1

Lab Name: IEPA

Case: Mobil/Ingzine/DePue

Instrument # / NC 500	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME:	RRF	3/17/92 0851			3/17/92 1932			3/18/92 2219			3/19/92 1041			3/20/92 1140		
		RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q
Phenol	0.800															
bis(2-Chloroethyl)ether	0.700					25.2	J									
2-Chlorophenol	0.800															
1,3-Dichlorobenzene	0.600															
1,4-Dichlorobenzene	0.500															
1,2-Dichlorobenzene	0.400															
2-Methylphenol	0.700															
2,2' oxybis(1-Chloropropanol)	0.010					40.3	J		28.8	J		34.0	J			
4-Methylphenol	0.600															
N-Nitroso-di-n-propylamine	0.500					27.1	J									
Hexachloroethane	0.300															
Nitrobenzene	0.200															
Isophorone	0.400															
2-Nitrophenol	0.100					25.4	J									
2,4-Dimethylphenol	0.200					28.2	J		25.5	J						
bis(2-Chloroethoxy)methane	0.300															
2,4-Dichlorophenol	0.200															
1,2,4-Trichlorobenzene	0.200															
Naphthalene	0.700															
4-Chloroaniline	0.010		50.3	J		56.2	J		54.8	J		31.1	J		28.3	J
Hexachlorobutadiene	0.010															
4-Chloro-3-methylphenol	0.200															
2-Methylnaphthalene	0.400															
Hexachlorocyclopentadiene	0.010					30.5	J		39.0	J						
2,4,6-Trichlorophenol	0.200															
2,4,5-Trichlorophenol	0.200															
2-Chloronaphthalene	0.800															
2-Nitroaniline	0.010					32.0	J					26.6	J			
Dimethylphthalate	0.010															
Acenaphthylene	1.300															
2,6-Dinitrotoluene	0.200															
3-Nitroaniline	0.010		47.2	J					28.3	J						
Acenaphthene	0.800															
2,4-Dinitrophenol	0.010					43.6	J		36.8	J					33.8	J
4-Nitrophenol	0.010															
Dibenzofuran	0.800															
2,4-Dinitrotoluene	0.200															

AFFECTED SAMPLES:

SBLKSL	X107	SBLKW	S303MS	X104
	X109MS	S301	S303MSD	X103
	X109MSD	S303	X109	
		S304	X108	
		S302	X106	
		S305	X105	

Reviewer's Initials/Date: CM 7/22/92

3/92

Q - This column of flags should be applied to the analytes on the sample data sheets.

SEMIVOLATILE CALIBRATION OUTLIERS

Page 2

Lab Name: IEPA

Case: Mobil/Magnec/DePue

Instrument # INC 500	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME:	RRF	3/17/92 0851			3/17/92 1932			3/18/92 2219			3/19/92 1041			3/20/92 1140		
		RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q
Diethylphthalate	0.010															
4-Chlorophenyl-phenylether	0.400															
Fluorene	0.900															
4-Nitroaniline	0.010											65.7	J	.043	74.1	J
4,6-Dinitro-2-methylphenol	0.010					26.8	J		27.6	J						
N-Nitrosodiphenylamine (1)	0.010					28.1	J		30.0	J					30.0	J
4-Bromophenyl-ethylether	0.100															
Hexachlorobenzene	0.100														25.7	J
Pentachlorophenol	0.050								25.4	J						
Phenanthrene	0.700															
Anthracene	0.700															
Carbazole	0.010															
Di-n-butylphthalate	0.010															
Fluoranthene	0.600															
Pyrene	0.600															
Butylbenzylphthalate	0.010					29.5	J									
3,3'-Dichlorobenzidine	0.010														31.5	J
Benzo(a)anthracene	0.800															
Chrysene	0.700															
bis(2-Ethylhexyl)phthalate	0.010					26.5	J									
Di-n-octylphthalate	0.010					35.7	J								25.5	J
Benzo(b)fluoranthene	0.700															
Benzo(k)fluoranthene	0.700											31.9	J		35.9	J
Benzo(a)pyrene	0.700											29.2	J		33.0	J
Indeno(1,2,3-cd)pyrene	0.500															
Dibenz(a,h)anthracene	0.400															
Benzo(g,h,i)perylene	0.500															
Nitrobenzene-d5	0.200															
2-Fluorobiphenol	0.700															
Terphenyl-d14	0.500															
Phenol-d6	0.800															
2-Fluorophenol	0.600															
2-Chlorophenol-d4	0.800															
1,2-Dichlorobenzene-d4	0.400															
4-Nitrophenol	0.010															
Dibenzofuran	0.800															
2,4-Dinitrotoluene	0.200															
2,4,6 Tribromophenol												34.0	J		3/92 41.2	J

Q - This column of flags should be applied to the analytes on the sample data sheets.

SEE PAGE 1 FOR AFFECTED SAMPLES

Reviewer's Initials/Date: Am 7/22/92

SEMIVOLATILE CALIBRATION OUTLIERS

Page 1

Lab Name: IEPA

Case: Mobil/Magnaflux/DePue

Instrument # INC500	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME:	RRF	3/17/92 0851			3/17/92 0851											
		RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q
Phenol	0.800															
bis(2-Chloroethyl)ether	0.700															
2-Chlorophenol	0.800	See other sheet														
1,3-Dichlorobenzene	0.600															
1,4-Dichlorobenzene	0.500															
1,2-Dichlorobenzene	0.400															
2-Methylphenol	0.700															
2,2' oxybis(1-Chloropropanol)	0.010															
4-Methylphenol	0.600															
N-Nitroso-di-n-propylamine	0.500															
Hexachloroethane	0.300															
Nitrobenzene	0.200															
Isophorone	0.400															
2-Nitrophenol	0.100															
2,4-Dimethylphenol	0.200					252	J									
bis(2-Chloroethoxy)methane	0.300															
2,4-Dichlorophenol	0.200															
1,2,4-Trichlorobenzene	0.200															
Naphthalene	0.700															
4-Chloroaniline	0.010					161.8	J									
Hexachlorobutadiene	0.010															
4-Chloro-3-methylphenol	0.200															
2-Methylnaphthalene	0.400															
Hexachlorocyclopentadiene	0.010					25.7	J									
2,4,6-Trichlorophenol	0.200															
2,4,5-Trichlorophenol	0.200															
2-Chloronaphthalene	0.800															
2-Nitroaniline	0.010															
Dimethylphthalate	0.010															
Acenaphthylene	1.300															
2,6-Dinitrotoluene	0.200															
3-Nitroaniline	0.010															
Acenaphthene	0.800															
2,4-Dinitrophenol	0.010															
4-Nitrophenol	0.010															
Dibenzofuran	0.800															
2,4-Dinitrotoluene	0.200															

SBLK5L

(this is Std 50 from i.e.)

AFFECTED SAMPLES:

Reviewer's Initials/Date: CRM 7/22/92

3/92

Q - This column of flags should be applied to the analytes on the sample data sheets.

SEMIVOLATILE CALIBRATION OUTLIERS

Page 2

Lab Name: IEPA

Case: Mobil/Ngozi/DePue

Instrument # INC 500	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME:	RRF	3/17/92 0851			3/17/92 0851											
		RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q
Diethylphthalate	0.010															
4-Chlorophenyl-phenylether	0.400															
Fluorene	0.900															
4-Nitroaniline	0.010					26.5	J									
4,6-Dinitro-2-methylphenol	0.010															
N-Nitrosodiphenylamine (1)	0.010					36.4	J									
4-Bromophenyl-ethylether	0.100															
Hexachlorobenzene	0.100															
Pentachlorophenol	0.050															
Phenanthrene	0.700															
Anthracene	0.700															
Carbazole	0.010															
Di-n-butylphthalate	0.010															
Fluoranthene	0.600															
Pyrene	0.600															
Butylbenzylphthalate	0.010															
3,3'-Dichlorobenzidine	0.010					27.2	J									
Benzo(a)anthracene	0.800															
Chrysene	0.700															
bis(2-Ethylhexyl)phthalate	0.010															
Di-n-octylphthalate	0.010															
Benzo(b)fluoranthene	0.700															
Benzo(k)fluoranthene	0.700															
Benzo(a)pyrene	0.700															
Indeno(1,2,3-cd)pyrene	0.500															
Dibenz(a,h)anthracene	0.400															
Benzo(g,h,i)perylene	0.500															
Nitrobenzene-d5	0.200															
2-Fluorobiphenol	0.700															
Terphenyl-d14	0.500															
Phenol-d6	0.800															
2-Fluorophenol	0.600															
2-Chlorophenol-d4	0.800															
1,2-Dichlorobenzene-d4	0.400															
4-Nitrophenol	0.010															
Dibenzofuran	0.800															
2,4-Dinitrotoluene	0.200															

3/92

Q - This column of flags should be applied to the analytes on the sample data sheets.

SEE PAGE 1 FOR AFFECTED SAMPLES

Reviewer's Initials/Date am 7/22/92

Data Validation Checklist
Site Name: Mobil/Niagara/DePue
SDG No.: 214416
Laboratory: IEPA
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V. Blanks

Fraction: VOA (SemiVOA) Pest. *(circle one)*

1. ***Review Blank Results.***

YES NO
[X] [ ] Check all associated blanks for the presence of TCL compounds or TICs. Note all contaminated blanks ~~and associated samples~~ below.

2. ***Verify Blank Frequency.***

YES NO
[X] [ ] Check that blank analyses have been performed at the required frequency.

Blank Summary

Blank Sample No.	SBLKW	SBLKSL		
Date Anal. or Extr.	Ext 3/16 An 3/18	Ex 3/12 An 3/17		
Instrument	INC 500	INC 500		

TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount

TIC Comp'd.	Amount	TIC Comp'd.	Amount	TIC Comp'd.	Amount	TIC Comp'd.	Amount
See p.	001402	See p.	001459				
for	list	for	list				
of	UNK.	of	UNK.				
(attached)			(attached)				

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

SBLKW

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) WATER Lab Sample ID: D214574

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0318W03

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/16/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/18/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 21

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 96-19-5	1-PROPENE, 1,2,3-TRICHLORO-	6.97	11	JN
2.	UNKNOWN	7.53	63	J
3. 96-19-5	1-PROPENE, 1,2,3-TRICHLORO-	7.90	12	JN
4. 822-67-3	2-CYCLOHEXEN-1-OL	8.23	18	AJN
5.	UNKNOWN	8.28	4	J
6. 2441-97-6	CYCLOHEXENE, 3-CHLORO-	8.69	20	JN
7. 79-34-5	ETHANE, 1,1,2,2-TETRACHLORO-	8.77	14	JN
8. 930-68-7	2-CYCLOHEXEN-1-ONE	9.19	10	AJN
9.	UNKNOWN	9.54	70	J
10.	UNKNOWN	11.12	47	J
11.	UNKNOWN	11.90	10	J
12.	UNKNOWN	12.59	3	J
13.	UNKNOWN	13.25	120	J
14.	UNKNOWN	13.34	27	J
15.	UNKNOWN	14.80	9	J
16.	UNKNOWN	15.65	7	J
17.	UNKNOWN	16.00	6	J
18. 1541-20-4	BI-2-CYCLOHEXEN-1-YL	16.20	9	JN
19.	UNKNOWN	16.47	3	J
20.	UNKNOWN	16.65	6	J
21.	UNKNOWN	20.35	20	J

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKSL

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214526

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0317W07

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 03/12/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/17/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.8

Number TICs found: 15

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN KETONE	6.08	470	AJ
2.	UNKNOWN	6.57	1000	J
3.	UNKNOWN ALIP. HYDROCARBON	7.05	130	J
4.	UNKNOWN KETONE	7.35	5800	AJ
5.	UNKNOWN ALIP. HYDROCARBON	7.55	390	J
6.	UNKNOWN ALIP. HYDROCARBON	7.90	190	J
7.	UNKNOWN	8.72	110	J
8.	UNKNOWN	8.84	630	J
9.	UNKNOWN	9.50	1500	J
10.	UNKNOWN	9.70	400	J
11. 100-52-7	BENZALDEHYDE	9.80	230	JN
12.	UNKNOWN	10.24	120	J
13.	UNKNOWN PHTHALATE	22.75	760	J
14.	UNKNOWN ALIP. ESTER	27.79	110	J
15.	UNKNOWN	31.69	290	J

Data Validation Checklist
Site Name: Mobil/Nyanza/DeRue
SDG
No.: 214416
Laboratory: IEPA
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VI. Surrogate Spikes

GC/MS

Fraction: VOA (SemiVOA) *(circle one)*

1. ***Review Raw Data.***

YES NO
[X] [ ] Check raw data to verify that the recoveries on the Form II are accurate and within the limits.

2. ***Evaluate Surrogate Recovery Calculations.***

YES NO
[X] [ ] Check that the surrogate spike recoveries were calculated correctly and are free from transcription errors.

3 ***Evaluate Surrogate Recoveries.***

YES NO
a. [X] [ ] Check that reanalyses were performed as required.

b. [X] [ ] Check that surrogate recoveries in blanks met criteria.

4. ***Evaluate Reanalyses.***

YES NO
[X] [ ] Whenever there are two or more analyses for a particular sample, determine which are the best analyses to use. This determination must be performed in conjunction with the evaluation of the internal standard area response criteria. List below the results of the reviewers determinations.
N/A

Comments:
X107 - 2,4,6 - Tribromophenol high % R
X109MS - Nitrobenzene - d5 } high % R
2 - Fluorobiphenyl
Terphenyl - d14

VII. Matrix Spikes/Matrix Spike Duplicates

Fraction: VOA (SemiVOA) Pesticide (*circle one*)

1. ***Verify Frequency***

YES NO
[X] [ ] Check that MS and MSD samples were analyzed at the correct frequency.

2. ***Evaluate MS/MSD Criteria.***

YES NO
[X] [ ] Check MS/MSD results for *%R* and *RPD* are within the advisory limits.

3. ***Verify MS/MSD Calculations.***

YES NO
a. [X] [ ] Check raw data and verify that results are calculated correctly and are free from transcription errors.

b. [X] [ ] Check that *%Rs* and *RPDs* were calculated correctly.

4. ***Evaluate Sample Precision.***

YES NO
[ ] [X] Compare *%RSD* results of non-spiked compounds between the original result, MS and MSD.

Compound	Orig. Result	MS Result	MSD Result	%RSD
8303 - No non-spiked compounds				
	X109	X109MS	X109MSD	
Phenanthrene	52			
Fluoranthene	60			

Comments:

X. Internal Standards

GC/MS

Fraction: VOA SemiVOA (*circle one*)

1. ***Evaluate Raw Data.***

YES NO
[X] [ ] Check raw data and verify that the internal standard retention times and areas reported on the Forms VIII are correct.

2. ***Verify RT and IS Area Criteria.***

YES NO
[X] [ ] Check that retention times and internal standard area meet the appropriate criteria.

3. ***Evaluate Reanalyses.***

YES NO
[X] [ ] Whenever there are two or more analyses for a particular sample, determine which are the best analyses to use. This determination must be performed in conjunction with the evaluation of the surrogate spike recovery criteria. List the results of the reviewers determinations in Section VI., Surrogate Spikes.
N/A

Comments:

XI. Target Compound Identification

GC/MS

Fraction: VOA (SemiVOA) *(circle one)*

1. ***Verify Relative Retention Time (RRT) Criteria.***

YES	NO	
[X]	[ ]	Check that the RRT of reported compounds is within the criteria.

2. ***Evaluate Target Compound Spectra.***

YES	NO	
[X]	[ ]	Check the sample target compound spectra against the laboratory standard spectra; verify that the specified criteria are met.

3. ***Evaluate Possible Carryover.***

YES	NO	
[X]	[ ]	Check the raw data of the samples as related to the samples analyzed previously to verify that sample carryover has not adversely affected results.

4. ***Evaluate Chromatograms.***

YES	NO	
[X]	[ ]	Check the sample chromatograms to verify that peaks are accounted for.

Comments:

XII. Compound Quantitation and Reported CRQLs

Fraction: VOA (SemiVOA) Pesticide (*circle one*)

1. ***Evaluate Quantitation of Sample Results.***

YES	NO	
[X]	[ ]	Check raw data to verify calculation of sample results.

2. ***Evaluate Quantitation Parameters.***

YES	NO	N/A	
[X]	[ ]	[ ]	For GC/MS analyses, check that the correct internal standard, quantitation ion, and *RRF* were used to quantitate results. Verify that the same internal standard, quantitation ion, and *RRF* are used throughout, in both the calibration and as well as the quantitation process.

3. ***Evaluate CRQLs.***

YES	NO	
[X]	[ ]	Check that the CRQLs have been adjusted to reflect all sample dilutions, concentrations, splits, cleanup activities, and dry weight factors.

Comments:

XIII. Tentatively Identified Compounds

GC/MS Only

Fraction: VOA (SemiVOA) (*circle one*)

1. ***Evaluate Tentative Identifications.***

YES	NO	
[X]	[ ]	Check that all TICs reported meet the identification guidelines.

2. ***Evaluate Raw Data.***

YES	NO	
[X]	[ ]	Check raw data to verify that the laboratory has generated a library search for all required peaks in the chromatograms for samples and blanks.

3. ***Evaluate Blanks.***

YES	NO	
[X]	[ ]	Check blank sample chromatograms to verify that TIC peaks present in samples are not found in blanks.

4. ***Examine Mass Spectra.***

YES	NO	
[X]	[ ]	Check all mass spectra for every sample.

5. ***Evaluate TIC Identifications.***

YES	NO	
[X]	[ ]	Since TIC library searches often yield several candidate compounds, all reasonable choices must be considered.

6. ***Evaluate Laboratory Artifacts and Contaminants.***

YES	NO	
[X]	[ ]	Check sample results and raw data to verify that common laboratory artifacts and contaminants are not reported as sample contaminants.

XIII. TICs continued

7. ***Evaluate Possibility of False Negatives.***

	YES	NO	N/A	
a.	[X]	[ ]	[ ]	Check to determine if target compounds have been identified and quantitated as TICs.
b.	[X]	[ ]	[ ]	If target compounds have been identified and quantitated as TICs, check to determine whether the false negative is an isolated occurrence or whether additional data may be affected. Comment on all such false negatives below.

8. ***Determine That Results Are From Proper Fraction.***

YES	NO	N/A	
[X]	[ ]	[ ]	Target compounds could be identified in more than one fraction; if this occurs, check that quantitation is from the proper fraction.

9. ***Verify That Internal Standards And Surrogates Are Not Searched.***

YES	NO	
[X]	[ ]	Check that library searches were not performed on internal standards or surrogates.

10. ***Verify Estimated Quantitation of TICs.***

YES	NO	
[X]	[ ]	Check that the estimated concentration of the TICs was made using an assumed *RRF* of one.

Comments:

S301
S302
S303
S304
S305 all contain TICs that are also present in blanks
X103
X104
X105
X106
X107
X108
X109

XIV. GC/MS System Performance

Fraction: VOA (SemiVOA) *(circle one)*

1. ***Evaluate Overall System Performance.***

	YES	NO	
a.	[X]	[ ]	Check for high RIC background levels or shifts in absolute retention times of internal standards.
b.	[X]	[ ]	Check for excessive baseline rise at elevated temperature.
c.	[X]	[ ]	Check for extraneous peaks.
d.	[X]	[ ]	Check for loss of resolution.
e.	[X]	[ ]	Check for peak tailing or peak splitting that may result in inaccurate quantitation.

Comments:

This review of Pesticides includes a review of a data pkg including samples X109, X109 MS/MSD, + PBLK51 that were rerun at a later date. (only Pest. were rerun - see H.T. for dates).

Data Validation Checklist
Site Name: Mobil/NJ Zinc/DePu
SDG No.: 214416
Laboratory: IEPA
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II. Pesticide Instrument Performance Check

1. ***Resolution Check Mixture***

	YES	NO	
a.	[X]	[ ]	Check the Form VIII PEST. to determine that the resolution check mixture(s) was analyzed in the proper sequence.
b.	[X]	[ ]	Check the resolution check mixture data and the Form VI PEST.-4 to verify that the resolution criterion was met.

2. ***Performance Evaluation Mixture***

	YES	NO	
a.	[X]	[ ]	Check the Form VII PEST. to determine that the PEM(s) was analyzed at the proper frequency and position in the initial calibration sequence.
b.	[X]	[ ]	Check the PEM data from the initial and continuing calibrations to verify that the resolution criterion was met.
c.	[X]	[ ]	Check the PEM data from the initial and continuing calibrations and Form VII PEST.-1 to verify that the retention times are within the retention time windows.
d.	[X]	[ ]	Check that the *RPDs* meet the criterion.
e.	[X]	[ ]	Check that the breakdowns for 4,4'-DDT and Endrin meet the criteria.

Comments:
PEM01 (DB-1701) Methoxychlor outside RT window, α BHC + β-BHC both have high RPD's
PEM02 (DB 1701) Endrin high RPD
PEM03 (DB 608) Endrin high RPD
PEM04 (DB 608) 4,4 DDT + Methoxychlor high RPD's
PEM01 (DB 608) Endrin breakdown 21.6%, Combined 31.6%

X109 Data Pkg.
PEM01 (DB608) - Endrin + 4,4-DDT high RPD
Endrin breakdown 27.4%
Combined 37.0%
PEM02 (DB-608) - 4,4-DDT + Methoxychlor high RPD
Endrin breakdown 36.6%
Combined 55.2%
PEM01 (DB 1701) - α BHC, β-BHC, Endrin, 4,4-DDT high RPD's
PEM02 (DB 1701) - all PEM compounds high RPD

Data Validation Checklist
Site Name: Mobil/NJ Zinc/DePue
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III. Initial Calibration

PESTICIDES

1. ***Individual Standard Mixtures.***

	YES	NO	
a.	[X]	[ ]	Check the Form VIII PEST to verify that the Individual Standard Mixtures were analyzed at the proper frequency for each GC column and instrument. Check that the proper concentrations were used.
b.	[X]	[ ]	Check the raw data to determine that the midpoint standard is at the proper concentration and verify that the resolution criterion has been met for each midpoint concentration standard.
c.	[X]	[ ]	Check the Individual Standard Mixture data and Form VI PEST.-1 and review the calculated retention time windows for calculation and transcription errors.
d.	[X]	[ ]	Check the Individual Standard Mixture data and Form VI PEST.-2 to verify that the *%RSDs* for the calibration factors meet the criterion. Check and recalculate several *%RSDs* for errors.

2. ***Multi Component Compounds.***

a.	[X]	[ ]	Check the raw data and the Form VIII PEST. to verify that the Multi-component Standards were analyzed at the proper concentration and frequency for each GC column and instrument.
b.	[X]	[ ]	Check the raw data and Form VI PEST.-3 to verify that at least three peaks were used for calibration and that retention time and calibration factor data are available for each peak.

Comments:
Single Component Analytes- delta-BHC 20.2 RSD (HP51)
4,4'-DDT 20.6 RSD (HP51)

.109 Data Pkg
Single Component Analytes- α BHC 20.6 RSD (HP1)
delta BHC 26.1 RSD (HP1)
gamma BHC 20.4 RSD (HP1)
Dieldrin 23.4 RSD (HP1)
4,4 DDE 21.8 RSD (HP1)
[illegible] 20.1 RSD (HP1)
Methoxychlor 20.8 RSD (H
α-BHC 30.5 RSD (HP2)
gamma BHC 26.4 RSD (H

Data Validation Checklist
Site Name: Mobil/NJ Zinc/DePue
SDG No.: 214416
Laboratory: IEPA
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IV. Continuing Calibration

PESTICIDES

1. ***Evaluate Continuing Calibration Standards.***

YES NO
[X] [ ] Check the Form VIII PEST to verify that the Instrument Blanks, PEMs, and Individual Standard Mixtures were analyzed at the proper frequency and that no more than 12:00 hours elapsed between calibration brackets in an ongoing analytical sequence.

2. ***Individual Standard Mixtures Resolution.***

YES NO
[X] [ ] Check the data for the midpoint concentration of the Individual Standard Mixtures to verify that the resolution criteria was met.

3. ***Individual Standard Mixtures Retention Times***

YES NO
[X] [ ] Check the data for each of the single component pesticides and surrogates in the midpoint concentration of the Individual Standard Mixtures to verify that the retention times are within the appropriate windows.

4. ***Evaluate Continuing Calibration RPDs.***

YES NO
[X] [ ] Check the data for the midpoint concentration of the Individual Standard Mixtures and Form VII PEST.-2 to verify that the *RPDs* between the calculated amount and the true amount for each of the pesticides and surrogates meet the criterion.

Comments:

INDAM03 4/15/92 2224 4,4'-DDT 28.8 RPD
Methoxychlor 29.5 RPD
INDAM03 4/15/92 2309 4,4'-DDT 28.9 RPD

* X109 Data Pkg
INDAM02 5/17/92 1144 Endrin 39.4 RPD
Methoxychlor 23.5 RPD
INDBM02 5/17/92 1314 Decachlorobiphenyl 27.2 RPD

Data Validation Checklist
Site Name: Mobil/Magzinc/De Pue
SDG No.: 214416
Laboratory: EPA
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V. Blanks

Fraction: VOA SemiVOA (Pest.) *(circle one)*

1. ***Review Blank Results.***

YES NO
[X] [ ] Check all associated blanks for the presence of TCL compounds or TICs. Note all contaminated blanks and associated samples below.

2. ***Verify Blank Frequency.***

YES NO
[X] [ ] Check that blank analyses have been performed at the required frequency.

* All instrument blks OK.

Blank Summary

Blank Sample No.	PBLKS1	PBLKW1		
Date Anal. or Extr.	Ext 3/16/92	Ext 3/13/92		
Instrument	HP51-52	HP51-52		

TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount
Heptachlor	0.97						

TIC Comp'd.	Amount	TIC Comp'd.	Amount	TIC Comp'd.	Amount	TIC Comp'd.	Amount
N	A	N	A				

X109 Data Pkg.
Method blk + instrument blk OK.

Data Validation Checklist
Site Name: Mobil/NJ Zinc/DePue
SDG
No.: 214416
Laboratory: IEPA
Page 38 of 44

VI. Surrogate Spikes

Pesticides

1. ***Review Raw Data.***

YES NO
[X] [ ] Check raw data to verify that the recoveries on the Form II are accurate and within the limits.

2. ***Evaluate Surrogate Recovery Calculations.***

YES NO
[X] [ ] Check that the surrogate spike recoveries were calculated correctly and are free from transcription errors.

3 ***Evaluate Possible Interferences.***

YES NO N/A
[X] [ ] [ ] If surrogate spike recoveries are not acceptable, check the raw data for possible interferences which may have effected surrogate recoveries.

4. ***Evaluate Retention Times.***

YES NO N/A
[X] [ ] [ ] If retention time limits are not met, check the raw data for possible misidentification of GC peaks.

5. ***Evaluate Any Low Recoveries.***

YES NO N/A
[X] [ ] [ ] If low surrogate recoveries are observed, check whether low recoveries are due to sample dilution.

6. ***Evaluate Surrogate Analyses in Blanks.***

YES NO
[X] [ ] Check that all surrogate analysis criteria (retention time and advisory recovery criteria) were met in all blank samples. See below

Comments:
PBLKW1 - TCX + DCB (HP2) low %R
5303 TCX (HP2) low %R
~~[illegible] %R high rerun w/X109 data pkg.~~
X105 - DCB (HP2) %R high
X108 - TCX (HP2) %R high
(Form II Pest-2 reports results for X109 + X109MS/MSD, but ~~results~~ these were rerun + submitted in separate data pkg.

X109 Data Pkg.

Data Validation Checklist
Site Name: Mobil / Nyanza / DePue
SDG No.: 214416
Laboratory: IEPA
Page 39 of 44

VI. Surrogate Spikes

Pesticides

1. ***Review Raw Data.***

YES NO
[X] [ ] Check raw data to verify that the recoveries on the Form II are accurate and within the limits.

2. ***Evaluate Surrogate Recovery Calculations.***

YES NO
[X] [ ] Check that the surrogate spike recoveries were calculated correctly and are free from transcription errors.

3 ***Evaluate Possible Interferences.***

YES NO N/A
[X] [ ] [ ] If surrogate spike recoveries are not acceptable, check the raw data for possible interferences which may have effected surrogate recoveries.

4. ***Evaluate Retention Times.***

YES NO N/A
[X] [ ] [X] If retention time limits are not met, check the raw data for possible misidentification of GC peaks.
all R.T. met

5. ***Evaluate Any Low Recoveries.***

YES NO N/A
[X] [ ] [ ] If low surrogate recoveries are observed, check whether low recoveries are due to sample dilution.

6. ***Evaluate Surrogate Analyses in Blanks.***

YES NO
[X] [ ] Check that all surrogate analysis criteria (retention time and advisory recovery criteria) were met in all blank samples. See below

Comments:
PBLK51 - DCB (HP1) high % R
TCX + DCB (HP2) 0 % R
X109MS - TCX + DCB (HP1) high % R
TCX + DCB (HP2) 0 % R
X109MSD - TCX + DCB (HP1) high % R

Data Validation Checklist
Site Name: Mobil/Nyanza/DePue
SDG No.: 214416
Laboratory: IEPA
Page 40 of 44

VII. Matrix Spikes/Matrix Spike Duplicates

Fraction: VOA SemiVOA (Pesticide) (*circle one*)

1. ***Verify Frequency***

YES NO
[X] [ ] Check that MS and MSD samples were analyzed at the correct frequency.

2. ***Evaluate MS/MSD Criteria.***

YES NO
[X] [ ] Check MS/MSD results for *%R* and *RPD* are within the advisory limits.

3. ***Verify MS/MSD Calculations.***

YES NO
a. [X] [ ] Check raw data and verify that results are calculated correctly and are free from transcription errors.

b. [X] [ ] Check that *%Rs* and *RPDs* were calculated correctly.

4. ***Evaluate Sample Precision.***

YES NO
[X] [ ] Compare *%RSD* results of non-spiked compounds between the original result, MS and MSD.

Compound	Orig. Result	MS Result	MSD Result	%RSD
S302 – no non-spiked compounds				

Comments:
S302MS/MSD - Heptachlor + Dieldrin – high MS % R
gamma-BHC, Dieldrin, Endrin – high RPD's

X109 Data Pkg.

Data Validation Checklist
Site Name: Mobil/Magnum/Acme
SDG No.: 214416
Laboratory: IEPA
Page 41 of 44

VII. Matrix Spikes/Matrix Spike Duplicates

Fraction: VOA SemiVOA (Pesticide) *(circle one)*

1. ***Verify Frequency***

YES NO
[X] [ ] Check that MS and MSD samples were analyzed at the correct frequency.

2. ***Evaluate MS/MSD Criteria.***

YES NO
[X] [ ] Check MS/MSD results for *%R* and *RPD* are within the advisory limits.

3. ***Verify MS/MSD Calculations.***

YES NO
a. [X] [ ] Check raw data and verify that results are calculated correctly and are free from transcription errors.

b. [X] [ ] Check that *%Rs* and *RPDs* were calculated correctly.

4. ***Evaluate Sample Precision.***

YES NO
[X] [ ] Compare *%RSD* results of non-spiked compounds between the original result, MS and MSD.

Compound	X109 Orig. Result	X109MS MS Result	X109MS MSD Result	%RSD
4,4'- DDE	4.9	35	5	116%
Endosulfan II	1.7	3.9	2.5	41%
Aroclor-1242	1300	7000	2200	88%
Aroclor-1254	250	740	320	61%
Aroclor-1260	53	120	86	39%

Comments:
MS - Heptachlor 1% R (low)
MSD - gamma BHC 24% R (low)
Heptachlor 0% R
Endrin 34% R (low)

RPD's - all high

Data Validation Checklist
Site Name: Mobil/Nggiac/DePue
SDG No.: 214416
Laboratory: IEPA
Page 42 of 44

X. Pesticide Cleanup Checks

1. ***Florisil Cartridge Check.***

	YES	NO	
a.	[X]	[ ]	Check the data from the Florisil cartridge solution analyses and the Form IX PEST.-1 and check some of the *%R* calculations; verify that there are no calculation or transcription errors.
b.	[X]	[ ]	Check all criteria have been met.

2. ***Gel Permeation Chromatography.***

	YES	NO	
a.	[X]	[ ]	Check the data from the GPC calibration check analyses and the Form IX PEST.-2 and recalculate some of the *%R* results; verify that there are no calculation or transcription errors.
b.	[X]	[ ]	Check all criteria have been met and that Arochlor patterns are similar to those of previous standards.

Comments:
Florisil - 4,4-DDT - 122.5% R high
TCX - 122.0% R high
GPC Calib Check - gamma BHC 59% R
Heptachlor 75% R
Aldrin 68% R
4,4-DDT 57.5% R
} low

* Arochlor patterns were not identified in GPC calibration check

* X109 Data Pkg: the above comments also apply to X109, X109MS, X109MSD + PBLKS1

XI. Target Compound Identification

Pesticides

1. ***Evaluate Reported Results.***

	YES	NO	
a.	[X]	[ ]	Check the Form I PEST., the associated raw data, and Form X PEST.-1 and Form X PEST.-2 to confirm reported detected analytes.
b.	[X]	[ ]	Check the Form I PEST., the associated raw data, and Form X PEST.-1 and Form X PEST.-2 to confirm reported non-detects.
c.	[X]	[ ]	Check the associated blank data for potential interferences to evaluate sample data for false positives.
d.	[X]	[ ]	Check the calibration data for adequate retention time windows to evaluate the sample data for false positives and false negatives.

2. ***Evaluate Multi-Component Analyte Results.***

YES	NO	
[X]	[ ]	Compare the retention times and relative peak height ratios of major multi-component analyte peaks against appropriate standard chromatograms.

3. ***Verify GC/MS Confirmations if Applicable.***

YES	NO	N/A	
[ ]	[ ]	[X]	Check that GC/MS confirmation was performed for pesticide concentrations in the final sample extract which exceeded 10 ng/ul.

Comments: *X109 Data Pkg OK

Data Validation Checklist
Site Name: Mobil/Magnuc/DePue
SDG
No.: 214416
Laboratory: IEPA
Page 44 of 44

XII. Compound Quantitation and Reported CRQLs

Fraction: VOA SemiVOA (Pesticide) *(circle one)*

1. ***Evaluate Quantitation of Sample Results.***

YES	NO	
[X]	[ ]	Check raw data to verify calculation of sample results.

2. ***Evaluate Quantitation Parameters.***

YES	NO	N/A	
[ ]	[ ]	[X]	For GC/MS analyses, check that the correct internal standard, quantitation ion, and *RRF* were used to quantitate results. Verify that the same internal standard, quantitation ion, and *RRF* are used throughout, in both the calibration and as well as the quantitation process.

3. ***Evaluate CRQLs.***

YES	NO	
[X]	[ ]	Check that the CRQLs have been adjusted to reflect all sample dilutions, concentrations, splits, cleanup activities, and dry weight factors.

Comments: * X1C9 Data Pkg — CK.

Data Validation Checklist
Site Name: Mobil/Magnetic/DePue
SDG
No.: 214416
Laboratory: IEPA
Page 44a of 44

XV. Overall Assessment of Data

Evaluate the Overall Quality of the Data.

YES	NO	
[X]	[ ]	Evaluate any technical problems which have not been previously addressed.
[X]	[ ]	Review all available materials to assess the overall quality of the dada, keeping in mind the additive nature of analytical problems.
[X]	[ ]	If appropriate information is available, assess the usability of the data to assist the data user in avoiding inappropriate use of the data. Review all available information, including the QAPjP, SAP, and communications with the data user that concerns the intended use of the data.

Provide a brief narrative to give the data user an indication of the analytical limitations of the data. Include any details from the above checks. Any inconsistency of the data with the Case Narrative should be noted. If sufficient information is available, the reviewer should give an assessment of the usability of the data within the given context.

Data qualified as indicated on Form 1's.

CM.

APPENDIX L

Analytical Results

Illinois Environmental Protection Agency · P.O. Box 19276, Springfield, IL 62794-9276

MEMORANDUM

DATE: August 1, 1992

TO: Bruce Ford

FROM: Ron Turpin & Jim Shaw Ron Turpin Jim Shaw

SUBJECT: Review of Data Packages
Mobile Chemical/N.J. Zinc #1,2,3 and 4

The Division of Laboratories Quality Assurance Section has reviewed the above referenced data packages. The packages were for 55 soil samples taken on March 12 and 13, 1992. The samples were analyzed at the IEPA laboratories in Springfield (organics) and in Champaign (inorganics).

I have attached summary forms for the Volatile Organics Analyses (VOAs), the Semi-Volatile Analyses (SVs) and the Pesticide/PCB analyses (P/Ps) in soil and water samples. The results on the summary forms have been modified as required by USEPA data validation guidelines. The results on the summary forms are valid as qualified by the associated data qualifiers. The Inorganics Analysis data has been validated and the attached sample analysis data sheets have been modified as required by the data validation process and the USEPA data validation guidelines. The data is valid as qualified on the attached modified sample analysis data sheets.

attachments

cc: John Hurley
Karl Reed
Tom Crause

Printed on Recycled Paper

EPA CLP
HAIN OF CUSTODY

L21511

Seal # 7189

Date Sealed: 3/9/92 By: RICM

Site Inventory # : 0110300003
Site Billing Code: 3A06
Project Manager : AL KIRWIN/BRUCE FORD

Laboratory # L21511

3301 3-12-92 12:25pm

Sleeth Tubes

IEPA / LRO

CONTAINER				ANALYSIS	
No.	Code	Size	Preser		(Y/N)
2	2	40ml		VOA	N
2	3	80oz		BNA	"
2	4	80oz		PESTICIDE/PCB	"

CHAIN OF CUSTODY RECEIVED

certify that I received the sample shipping container with the shipping container sealed and intact.

3-12-92 2:05pm Seal # 7189

certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the [illegible] container and that I sealed the sample shipping container at the date and time listed below.

3-12-92 1:45pm Seal # 7190

Courier - Sample Delivery:

certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and at each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): HARVEY EDWARDS Signature: Harvey Edwards

Date: 3-12-92 Time: 5:00 pm Seal #: 7190 Intact?: (Y) / N

Lab Name: IEPA #22 Comments:

L21511

Seal # 7185

Date Sealed: 3/9/92 By: RKM

Name MOBIL CHEM N.J. ZINC/DePUE

Site Inventory # [illegible]

Project Manager [illegible] BRUCE FORD

Laboratory #			
D214416	[illegible]	[illegible]	[illegible]

CONTAINER			ANALYSIS		
No.	Code	Size	Preser	(Y/N)	[illegible]
[illegible]	[illegible]	40ml	VOA	[illegible]	[illegible]
[illegible]	[illegible]	20oz	BNA	[illegible]	[illegible]
[illegible]	[illegible]	20oz	PESTICIDE/PCB	[illegible]	[illegible]

[illegible] HRUNIT

[illegible] the sample shipping container with the shipping container sealed and intact.

Bruce Ford [illegible]

[illegible] 1:15pm [illegible] 7185

[illegible] that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time [illegible].

Bruce Ford [illegible]

[illegible] [illegible] [illegible]

[illegible]

Courier - Sample Delivery: _____

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Marilyn Moore Signature: Marilyn Moore

Date: 3-12-92 Time: 1:45pm Seal #: 7186 Intact? (Y)/ N

Lab Name: Springfield Comments: _____

EPA FIELD
CHAIN OF CUSTODY

Seal # 7201

Date Sealed: 3/9/92 By: RKM

Site: MOBIL CHEM.N.J.ZINC/DePUE
Site Inventory # : 0110300003
Site Billing Code: LA06670
County: BUREAU
Project Manager : AL KIRWIN/BRUCE FORD

Laboratory #	Sample ID.	Sample Date	Sample Time
D214417	S303	3-9-92	2:00pm

Sample Appearance: [illegible]

Sampler: [illegible] Company: [illegible]

CONTAINER				ANALYSIS	FILTERING	
No.	Code	Size	Preser		(Y/N)	
		40ml		VOA	N	
	3	8oz		BNA	"	
	4	8oz		PESTICIDE/PCB	"	
				VOA		
				S303 received broken		

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Signature: [illegible]

Courier Name: UPS Seal #: 7201 Intact: Y

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Signature: [illegible]

Date: [illegible] Time: [illegible] Seal #: 7202

Courier Name: Federal Express

Courier - Sample Delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Celeste Crawley Signature: Celeste M Crawley

Date: 3/12/92 Time: 945 A.M Seal #: 7202 Intact: (Y) N

Lab Name: [illegible] Comments:

EPA - [illegible]
CHAIN OF CUSTODY

[illegible] 3

Seal - 7203

,92 Date Sealed: 3/9/92 By: RKM

Facility
Name MOBIL CHEM.N.I.INC DePUE
Address POLE FORD
County: BUREAU

Site Inventory # : 0110300000
Site Billing Code: [illegible]
Project Manager AL KIRWIN BRUCE FORD

Laboratory # [illegible] 5 [illegible] 5 - pm

D214418

[illegible]

CONTAINER				ANALYSIS	
No.	Code	Size	Preser		(Y/N)
		40ml		VOA	N
	3	80oz		BNA	N
2	4	80oz		PESTICIDE/PCB	N

CHAIN OF CUSTODY CHRONICLE [illegible] 3

certify that I received the sample shipping container with the shipping container sealed and intact.

[illegible] Date: [illegible] Signature: [illegible]

[illegible] 92 Time: 5:[illegible] Seal #: 7203 Intact: [illegible]

certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

[illegible] (print): [illegible] Signature: [illegible]

[illegible] 3/10/92 Time: 6:05 pm Seal # 7204

Courier - Sample Pickup: Federal Express

Courier - Sample Delivery
I certify that I received the sample shipping container from the sample collector above with the shipping container sealed and intact and that each bottle in the shipping container was intact. After logging the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Received by (print): [illegible] Signature: [illegible]

Date: [illegible] 92 Time: 9:[illegible] Seal #: 7204 Intact? Y/N

Lab Name: Springfield Comments: [illegible]

Seal # 7205

Date Sealed: 3/9/92 By: RLM

Site Inventory # : 0110300003
Site Billing Code: SA06670
Project Manager : AL KIRWIN/BRUCE FORD

Laboratory #			
D214419	305	3-10-92	0 40P

CONTAINER		ANALYSIS	FILTERING (Y/N)	
Type	Size	Preser		
		VOA	N	3-10-92
	500z	BNA	"	
	500z	PESTICIDE/PCB	"	

Seal # 7205

Seal # 7206

Sample Delivery:

certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Marilyn Moore Signature: Marilyn Moore

Date: 3-12-92 Time: 1:45 PM Seal #: 7206 Intact?: (Y) / N

LAB Name: [illegible] Comments:

Seal # 7205

Date Sealed: 5/9/92 By: RKM

Site Inventory #:
Site Billing Code:
Project Manager: BRUCE FORD

Laboratory #

D214460

CONTAINER ANALYSIS

No. Code Size Preserv.

[illegible]

Courier - Sample Delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Marilyn Moore Signature: Marilyn Moore

Date: 5-12-92 Time: 1:45pm Seal #: 7206 Intact?: (Y) / N

Lab Name: [illegible] Comments:

EPA - CLP
CHAIN OF CUSTODY

L21-504

Seal # 7261

Date Sealed: 3/9/92 By: RKM

Facility
Name : MOBIL CHEM.N.J.ZINC/DePUE
Region: ROCKFORD
County: BUREAU

Site Inventory # : 0110300003
Site Billing Code: SA06670
Project Manager : AL KIRWIN/BRUCE FORD

Laboratory #	Sample I.D.	Sample Date	Sample Time
L21-504	X103	3-12-92	12:55pm

Sample Appearance : dark gray clayey silt

Collector Comments:

Sampler Signature: [illegible] Division/Company IEPA/PRU

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	14	2oz		VOA	N	3-12-92	
1	16	8oz		BNA,PEST/PCB			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Name: [illegible] Signature: [illegible]

Date: 3-12-92 Time: 1:15pm Seal #: 7261 Intact?: Y / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Name: [illegible] Signature: [illegible]

Date: 3-12-92 Time: 1:50pm Seal # 7262

Courier Company: [illegible]

Courier - Sample Delivery: _____

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): HARVEY EDWARDS Signature: Harvey Edwards

Date: 3-12-92 Time: 5:00 PM Seal #: 7262 Intact?: (Y) / N

Lab Name: IEPA #22 Comments: _____

L21-504

EPA - CLP
CHAIN OF CUSTODY

Seal #: 7261

Date Sealed: 3/9/92 By: RKM

Facility Name: MOBIL CHEM.N.J.ZINC/DePUE
Region: ROCKFORD
County: BUREAU

Site Inventory #: 0110300003
Site Billing Code: SA06670
Project Manager: EL KIRWIN/BRUCE FORD

Laboratory #: D214505

CONTAINER				ANALYSIS	FILTERING (Y/N)	Date	Time
No.	Code	Size	Preser.				
1	VA	40z		VOA	N	3-12-92	
1	AG	8oz		BNA,PEST/PCB	N		

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Signature: [illegible]

Date: 3-12-92 Time: [illegible] Seal #: [illegible]

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Signature: [illegible]

Date: [illegible] Time: [illegible] Seal #: 7262

Courier: [illegible]

Courier - Sample Delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): HARVEY EDWARDS Signature: Harvey Edwards

Date: 3-12-92 Time: 5:00 PM Seal #: 7262 Intact?: (Y) / N

Lab Name: IEPA #22 Comments:

D214505

EPA
CHAIN OF CUSTODY

214306

Seal # 7261

Date Sealed: 3/9/92 By: RKM

Name: MOBIL CHEM.N.J.ZINC/DePUE
Region: ROCKFORD
Client: BUREAU

Site Inventory # : 0110300003
Site Billing Code: SA06670
Project Manager : AL KIRWIN/BRUCE FORD

Laboratory #	Sample I.D.	Sample Date	Sample Time
214306	Y105	3-10-92	2:00pm

Sample Description: The following layer overlying gray-black silty clay, [illegible] deep

Comments:

Sampler: Al Kirwin Division/Company: EPA/OLPC/PRU

CONTAINER				ANALYSIS	FILTERING	
No.	Type	Size	Preser.		(Y/N)	Date / Time
[illegible]	[illegible]	40ZE		VOA	N	3-10-92
[illegible]	[illegible]	8OZ		BNA,PEST/PCB	N	

CHAIN OF CUSTODY CHRONICLE

I certify that I sealed the sample shipping container with the shipping container sealed and intact.

Signature: [illegible]

Date: 3/12/92 Time: 11:25am Seal #: 7261 Intact?: O

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Signature: [illegible]

Date: [illegible] Time: 11:50am Seal #: 7262

Company: EPA

Courier - Sample Delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in custody or competent laboratory personnel at all times or locked in a secured area.

Opened by (print): HARVEY EDWARDS Signature: Harvey Edwards

Date: 3-12-92 Time: 5:00 pm Seal #: 7262 Intact?: (Y) / N

Lab Name: LEPA 522 Comments:

001A506

Date Sealed: 3/9/92 By: RKM

Name MOBIL CHEM. [illegible] INC./DEPUE
[illegible] FORD
[illegible] GREEN

Site Inventory #: [illegible]
Site Activity Code: [illegible]
Project Manager: [illegible] TRUNDERBURG FORD

Laboratory #
[illegible]

CONTAINER			ANALYSIS	
No.	Code.	Size	Preser	
	[illegible]		VOA	
	3OZ		BNA, PEST PCB	~

[illegible] HANDLE

[illegible] sealed the sample shipping container with the shipping container sealed and intact.

[illegible]

[illegible] the sample listed above was collected and placed in bottles in my presence, that each bottle was sealed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

[illegible]

Courier - Sample Delivery: _____

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): HARVEY EDWARDS Signature: Harvey Edwards

Date: 3-12-92 Time: 5:00 PM Seal #: 726L Intact? (Y) / N

LAB Name: IEPA - 22. Comments: _____

EPA - CLP
CHAIN OF CUSTODY

D214508

Seal # 7261

Date Sealed: 3/9/92 By: RKM

Facility
Name : MOBIL CHEM.N.J.ZINC/DePUE
Region: ROCKFORD
County: BUREAU

Site Inventory # : 0110300003
Site Billing Code: SA06670
Project Manager : AL KIRWIN/BRUCE FORD

Laboratory #	Sample [illegible]	Sample Date	Sample Time
D214508	[illegible]	3-11-92	2:05pm

Sample Appearance: [illegible] gypsum like material

Comments:

Sampler Name: Al Kirwin Division/Company: IEPA/PCU

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	[illegible]	2oz		VOA	N	3-11-92	
1	1o	8oz		BNA,PEST/PCB	N		

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Name: [illegible] Signature: [illegible]

Date: 3-11-92 Time: [illegible] Seal #: 7261 Intact: Y N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sampler Name: [illegible] Signature: [illegible]

Date: 3-11-92 Time: [illegible] Seal #: 7262

Sample Airbill: [illegible]

Courier - Sample Delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): HARVEY EDWARDS Signature: Harvey Edwards

Date: 3-11-92 Time: 5:00 PM Seal #: 7262 Intact?: (Y) / N

Lab Name: IEPA-22 Comments:

D214508

IEPA
CHAIN OF CUSTODY

Seal # 7261

Date Sealed: 3/9/92 By: RKM

Name: MOBIL CHEM N.I. INC/DePUE
Site Inventory #: 0110300003
Site Billing Code: EA06670
Project Manager: AL IRWIN/BRUCE FORD

Laboratory #: D214509

CONTAINER			ANALYSIS	FILTERING
No.	Code	Size	Preser.	(Y/N)
		2OZ	VOA	N
		2OZ	BNA,PEST/PCB	N

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Signature: [illegible]

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Signature: [illegible]

Seal #: [illegible]

Courier - Sample Delivery: _____

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): HARVEY EDWARDS Signature: Harvey Edwards

Date: 3-12-92 Time: 5:00 PM Seal #: 7262 Intact?: (Y) / N

Lab Name: IEPA #22 Comments: _____

D214509

EPA -- CLP
HAIN OF CUSTODY

D214510

Seal # 7261

Date Sealed: 3/4/92 By: Rick

acility
ie : MOBIL CHEM.N.J.ZINC/DePUE
egion: ROCKFORD
ounty: BUREAU

Site Inventory # : 0110300003
Site Billing Code: SA06670
Project Manager : AL KIRWIN/BRUCE FORD

Laboratory #	Sample I.D.	Sample Date	Sample Time
D214510	[illegible]	3-11-92	11:30am

ample Appearance : [illegible]

ollector Comments:

ampler Signature [illegible] Division/Company IEPA/PCU

CONTAINER				ANALYSIS	FILTERING	
No.	Code	Size	Preser		(Y/N)	Date Time
2	14	20z		VOA	~	3-11-92
1	16	8oz		BNA,PEST/PCB	~	3-11-92

CHAIN OF CUSTODY CHRONICLE

certify that I received the sample shipping container with the shipping container sealed and intact.

ame [illegible] Signature: [illegible]

ate [illegible]-92 Time: 1125A Seal #: 7261 Intact? Y

certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the ample shipping container and that I sealed the sample shipping container at the date and time listed below.

ame [illegible] Signature [illegible]

ate 3-12-92 Time 1500 Seal # 7262

o IEPA

ourier - Sample Delivery:

certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and hat each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in he custody of competent laboratory personnel at all times or locked in a secured area.

pened by (print): HARVEY EDWARDS Signature: Harvey Edwards

ate: 3-12-92 Time: 5:00 pm Seal #: 7262 Intact?: (Y) / N

ab Name: IEPA #22 Comments:

D214510

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: MOBIL CHEM NJ ZINC/DEPUE

Lab Code: ——— Case No.: ——— SAS No.: ——— SDG No.: —64—

SOW No.: ILM01.0

EPA Sample No.	Lab Sample ID
S302	B203316
S302S	B203316S
S302D	B203316D
S303	B203318
S304	B203320
S305	B203322
S301	B203424

RECEIVED
APR 29 1992
IEPA LABORATORIES
Manager's Office

Were ICP interelement corrections applied? Yes ——

Were ICP background corrections applied? Yes ——
If yes, were raw data generated before application of background corrections? No ——

Comments: -1.0 ML OF 1:1 HCL ADDED TO MICROWAVE DIGESTION PROCEDURE TO IMPROVE ANTIMONY RECOVERY.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other that the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Roy Frazier Name: ROY FRAZIER
Date: 4/28/92 Title: LAB MGR

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE
S302

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: MOBIL CHEM NJ ZINC/DEPUE
Lab Code: ——— Case No.: ——— SAS No.: ——— SDG No.: —64
Matrix (Water): ——— Lab Sample ID: —B203316
Level (Low/Med): ——— Date Received: 3/12/
% Solids: ———

Concentration Units (ug/L): ———

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	1780			PM	
7440-36-0	Antimony	42.0	U		PM	
7440-38-2	Arsenic	2.3	B	W	FM	J
7440-39-3	Barium	66.0	B		PM	
7440-41-7	Beryllium	1.0	U		PM	
7440-43-9	Cadmium	13.1		*	PM	J
7440-70-2	Calcium	110000			PM	
7440-47-3	Chromium	3.0	U		PM	J
7440-48-4	Cobalt	22.9	B		PM	
7440-50-8	Copper	36.8			PM	
7439-89-6	Iron	1330			PM	
7439-92-1	Lead	4.0	U		FM	
7439-95-4	Magnesium	44900			PM	
7439-96-5	Manganese	2180			PM	
7439-97-6	Mercury	0.02	B		AV	
7440-02-2	Nickel	13.0	U		PM	
7440-09-7	Potassium	5740			PM	
7782-49-2	Selenium	10.0	~~U~~ J	N	FM	J
7440-22-4	Silver	5.0	U		PM	
7440-23-5	Sodium	54100			PM	
7440-28-0	Thallium	3.0	U		FM	
7440-62-2	Vanadium	9.14	B		PM	
7440-66-6	Zinc	5310		K	PM	
———	Cyanide	10	U		AS	
———	Sulfide	1000	U		T	
———	Sulfate	222000			AS	
———	Ammonia	618				

Color Before: —Colorless— Clarity Before: —Clear——— Texture: ———
Color After: —Colorless— Clarity After: —Clear——— Artifacts: ———
Comments: —SULFIDE SW846 METHODOLOGY———
———SULFATE IEPA METHODOLOGY———

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE N
S303

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: MOBIL CHEM NJ ZINC/DEPUE
Lab Code: Case No.: SAS No.: SDG No.: 64
Matrix (Water): Lab Sample ID: B203318
Level (Low/Med): Date Received: 3/12/
% Solids:

Concentration Units (ug/L):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	380			PM	
7440-36-0	Antimony	42.0	U		PM	
7440-38-2	Arsenic	2.0	U	W	PM	J
7440-39-3	Barium	54.2	B		PM	
7440-41-7	Beryllium	1.0	U		PM	
7440-43-9	Cadmium	86.8		*	PM	J
7440-70-2	Calcium	127000			PM	
7440-47-3	Chromium	3.0	U		PM	J
7440-48-4	Cobalt	59.4			PM	
7440-50-8	Copper	130			PM	
7439-89-6	Iron	706			PM	
7439-92-1	Lead	7.6	U		PM	
7439-95-4	Magnesium	55900			PM	
7439-96-5	Manganese	5040			PM	
7439-97-6	Mercury	0.05	B		AV	
7440-02-2	Nickel	40.3			PM	
7440-09-7	Potassium	5190			PM	
7782-49-2	Selenium	10.0	~~U~~ JC	N	PM	J
7440-22-4	Silver	5.0	U		PM	
7440-23-5	Sodium	61700			PM	
7440-28-0	Thallium	3.0	U		FM	
7440-62-2	Vanadium	3.0	U		PM	
7440-66-6	Zinc	26500		~~*~~ JC	PM	
	Cyanide	10	U		AS	
	Sulfide	1000	U		T	
	Sulfate	342000			AS	
	Ammonia	2380				

Color Before: Colorless Clarity Before: Clear Texture:
Color After: Colorless Clarity After: Clear Artifacts:
Comments: SULFIDE SW846 METHODOLOGY
SULFATE IEPA METHODOLOGY

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE N
S304

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: MOBIL CHEM NJ ZINC/DEPUE
Lab Code: Case No.: SAS No.: SDG No.: 64
Matrix (Water): Lab Sample ID: B203320
Level (Low/Med): Date Received: 3/12/
% Solids:

Concentration Units (ug/L):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	2490			PM	
7440-36-0	Antimony	42.0	U		PM	
7440-38-2	Arsenic	19.4		W	FM	J
7440-39-3	Barium	25.7	B		PM	
7440-41-7	Beryllium	1.0	U		PM	
7440-43-9	Cadmium	56.9		*	PM	J
7440-70-2	Calcium	105000			PM	
7440-47-3	Chromium	3.0	U		PM	J
7440-48-4	Cobalt	253			PM	
7440-50-8	Copper	86.2			PM	
7439-89-6	Iron	1720			PM	
7439-92-1	Lead	40.4		S	FM	
7439-95-4	Magnesium	47200			PM	
7439-96-5	Manganese	15300			PM	
7439-97-6	Mercury	0.06	B		AV	
7440-02-2	Nickel	222			PM	
7440-09-7	Potassium	9830			PM	
7782-49-2	Selenium	11.0		W,N	FM	J
7440-22-4	Silver	5.0	U		PM	
7440-23-5	Sodium	29800			PM	
7440-28-0	Thallium	3.0	U	W	FM	J
7440-62-2	Vanadium	7.23	B		PM	
7440-66-6	Zinc	62700		E	PM	
	Cyanide	10	U		AS	
	Sulfide	1000	U		T	
	Sulfate	650000			AS	
	Ammonia	54600				

Color Before: Colorless Clarity Before: Clear Texture:
Color After: Colorless Clarity After: Clear Artifacts:
Comments: SULFIDE SW846 METHODOLOGY
SULFATE IEPA METHODOLOGY

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE
S305

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: MOBIL CHEM NJ ZINC/DEPU
Lab Code: ——— Case No.: ——— SAS No.: ——— SDG No.: 6
Matrix (Water): ——— Lab Sample ID: B20332
Level (Low/Med): ——— Date Received: 3/12
% Solids: ———

Concentration Units (ug/L): ———

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2630			PM
7440-36-0	Antimony	42.0	U		PM
7440-38-2	Arsenic	368		S	FM
7440-39-3	Barium	55.8	B		PM
7440-41-7	Beryllium	1.0	U		PM
7440-43-9	Cadmium	38.5		*	PM J
7440-70-2	Calcium	299000			PM
7440-47-3	Chromium	33.0			PM
7440-48-4	Cobalt	44.4	B		PM
7440-50-8	Copper	18.0	~~B~~ U		PM
7439-89-6	Iron	3340			PM
7439-92-1	Lead	5.7	U		FM
7439-95-4	Magnesium	421000			PM
7439-96-5	Manganese	4810			PM
7439-97-6	Mercury	0.30			AV
7440-02-2	Nickel	147			PM
7440-09-7	Potassium	87300			PM
7782-49-2	Selenium	18.0		W, N	FM J
7440-22-4	Silver	5.0	U		PM
7440-23-5	Sodium	675000			PM
7440-28-0	Thallium	3.6	B	W	FM J
7440-62-2	Vanadium	21.9	B		PM
7440-66-6	Zinc	517		~~*~~ SC	PM
———	Cyanide	10	U		AS
———	Sulfide	1000	U		T
———	Sulfate	3480000			AS
———	Ammonia	346000			

Color Before: Colorless Clarity Before: Clear Texture: ———
Color After: Colorless Clarity After: Clear Artifacts: ———
Comments: SULFIDE SW846 METHODOLOGY
SULFATE IEPA METHODOLOGY

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE N
S301

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: —MOBIL CHEM NJ ZINC/DEPUE
Lab Code: ——— Case No.: ——— SAS No.: ——— SDG No.: —64
Matrix (Water): ——— Lab Sample ID: —B203424
Level (Low/Med): ——— Date Received: 3/13/
% Solids: ———

Concentration Units (ug/L): ———

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	118	B		PM	
7440-36-0	Antimony	42.0	U		PM	
7440-38-2	Arsenic	2.6		W	FM	J
7440-39-3	Barium	40.5	B		PM	
7440-41-7	Beryllium	1.0	U		PM	
7440-43-9	Cadmium	5.0	U	*	PM	J
7440-70-2	Calcium	7400			PM	
7440-47-3	Chromium	3.0	U		PM	J
7440-48-4	Cobalt	3.0	U		PM	J
7440-50-8	Copper	5.0	U		PM	
7439-89-6	Iron	345			PM	
7439-92-1	Lead	1.0	U		FM	
7439-95-4	Magnesium	31100			PM	
7439-96-5	Manganese	135			PM	
7439-97-6	Mercury	0.09	B		AV	
7440-02-2	Nickel	13.0	U		PM	
7440-09-7	Potassium	3740			PM	
7782-49-2	Selenium	1.55	~~B~~ U	W,N	FM	J
7440-22-4	Silver	5.0	U		PM	
7440-23-5	Sodium	28300			PM	
7440-28-0	Thallium	3.0	U		FM	
7440-62-2	Vanadium	3.0	U		PM	
7440-66-6	Zinc	17.9	B	~~*~~ JC	PM	
———	Cyanide	10	U		AS	
———	Sulfide	1000	U		T	
———	Sulfate	86000			AS	
———	Ammonia	10	U			

Color Before: —Colorless— Clarity Before: —Clear——— Texture: ———
Color After: —Colorless— Clarity After: —Clear——— Artifacts: ———
Comments: —SULFIDE SW846 METHODOLOGY———
———SULFATE IEPA METHODOLOGY———

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

S301

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) WATER Lab Sample ID: D214511

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B0313LC04

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: not dec. ____ Date Analyzed: 03/13/92

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(ul

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE N

S301

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) WATER Lab Sample ID: D214511

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B0313LC04

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: not dec. ____ Date Analyzed: 03/13/92

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(u

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

S302

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) WATER Lab Sample ID: D214416

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B0312LC06

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: not dec. ____ Date Analyzed: 03/12/92

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(u

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE I

S302

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) WATER Lab Sample ID: D214416

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B0312LC06

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: not dec. ____ Date Analyzed: 03/12/92

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(u

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

S303

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) WATER Lab Sample ID: D214417

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B0312LC07

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: not dec. ____ Date Analyzed: 03/12/92

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(u

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE

S303

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) WATER Lab Sample ID: D214417

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B0312LC07

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: not dec. ____ Date Analyzed: 03/12/92

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(u

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

S305

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) WATER Lab Sample ID: D214419

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B0312LC08

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: not dec. ____ Date Analyzed: 03/12/92

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10 K	~~B~~ U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE N

S305

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) WATER Lab Sample ID: D214419

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B0312LC08

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: not dec. ____ Date Analyzed: 03/12/92

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(u

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE I

VBLKTB

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) WATER Lab Sample ID: D214420

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B0312LC05

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: not dec. ____ Date Analyzed: 03/12/92

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(u

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10 ~~B~~	~~B~~ U a
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE N

VBLKTB

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) WATER Lab Sample ID: D214420

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B0312LC05

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: not dec. ____ Date Analyzed: 03/12/92

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(u

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

X103

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214504

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0317BK04

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: not dec. 33 Date Analyzed: 03/17/92

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(u

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
74-87-3	Chloromethane	15	U	
74-83-9	Bromomethane	15	U	
75-01-4	Vinyl Chloride	15	U	
75-00-3	Chloroethane	15	UJ	
75-09-2	Methylene Chloride	15 J	~~BJ~~ U	an
67-64-1	Acetone	21	~~B~~ U	an
75-15-0	Carbon Disulfide	15	U	
75-35-4	1,1-Dichloroethene	15	U	
75-34-3	1,1-Dichloroethane	15	U	
540-59-0	1,2-Dichloroethene (total)	15	U	
67-66-3	Chloroform	15	U	
107-06-2	1,2-Dichloroethane	15	U	
78-93-3	2-Butanone	15	U	
71-55-6	1,1,1-Trichloroethane	15	U	
56-23-5	Carbon Tetrachloride	15	U	
75-27-4	Bromodichloromethane	15	U	
78-87-5	1,2-Dichloropropane	15	U	
10061-01-5	cis-1,3-Dichloropropene	15	U	
79-01-6	Trichloroethene	15	U	
124-48-1	Dibromochloromethane	15	U	
79-00-5	1,1,2-Trichloroethane	15	U	
71-43-2	Benzene	15	U	
10061-02-6	trans-1,3-Dichloropropene	15	U	
75-25-2	Bromoform	15	U	
108-10-1	4-Methyl-2-Pentanone	15	U	
591-78-6	2-Hexanone	15	U	
127-18-4	Tetrachloroethene	15	U	
79-34-5	1,1,2,2-Tetrachloroethane	15	U	
108-88-3	Toluene	15	U	
108-90-7	Chlorobenzene	15	U	
100-41-4	Ethylbenzene	15	U	
100-42-5	Styrene	15	U	
1330-20-7	Xylene (total)	15	U	

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE N

X103

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214504

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0317BK04

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: not dec. 33 Date Analyzed: 03/17/92

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(u

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 60-29-3	ETHYL ETHER	5.17	8	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214505

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0318BK04

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: not dec. 44 Date Analyzed: 03/18/92

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	18	U
74-83-9	Bromomethane	18	U
75-01-4	Vinyl Chloride	18	U
75-00-3	Chloroethane	18	U
75-09-2	Methylene Chloride	18	U
67-64-1	Acetone	18	U
75-15-0	Carbon Disulfide	18	UJ
75-35-4	1,1-Dichloroethene	18	U
75-34-3	1,1-Dichloroethane	18	U
540-59-0	1,2-Dichloroethene (total)	18	U
67-66-3	Chloroform	18	U
107-06-2	1,2-Dichloroethane	18	U
78-93-3	2-Butanone	18	U
71-55-6	1,1,1-Trichloroethane	18	U
56-23-5	Carbon Tetrachloride	18	U
75-27-4	Bromodichloromethane	18	U
78-87-5	1,2-Dichloropropane	18	U
10061-01-5	cis-1,3-Dichloropropene	18	U
79-01-6	Trichloroethene	18	U
124-48-1	Dibromochloromethane	18	U
79-00-5	1,1,2-Trichloroethane	18	U
71-43-2	Benzene	18	U
10061-02-6	trans-1,3-Dichloropropene	18	U
75-25-2	Bromoform	18	U
108-10-1	4-Methyl-2-Pentanone	18	U
591-78-6	2-Hexanone	18	U
127-18-4	Tetrachloroethene	18	U
79-34-5	1,1,2,2-Tetrachloroethane	18	U
108-88-3	Toluene	18	U
108-90-7	Chlorobenzene	18	U
100-41-4	Ethylbenzene	18	U
100-42-5	Styrene	18	U
1330-20-7	Xylene (total)	18	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE I

X104

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214505

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0318BK04

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: not dec. 44 Date Analyzed: 03/18/92

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(u

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

X105

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214506

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0318BK05

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: not dec. 53 Date Analyzed: 03/18/92

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (u

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	21	U
74-83-9	Bromomethane	21	U
75-01-4	Vinyl Chloride	21	U
75-00-3	Chloroethane	21	U
75-09-2	Methylene Chloride	21	U
67-64-1	Acetone	14	J
75-15-0	Carbon Disulfide	10	J
75-35-4	1,1-Dichloroethene	21	U
75-34-3	1,1-Dichloroethane	21	U
540-59-0	1,2-Dichloroethene (total)	21	U
67-66-3	Chloroform	21	U
107-06-2	1,2-Dichloroethane	21	U
78-93-3	2-Butanone	21	U
71-55-6	1,1,1-Trichloroethane	21	U
56-23-5	Carbon Tetrachloride	21	U
75-27-4	Bromodichloromethane	21	U
78-87-5	1,2-Dichloropropane	21	U
10061-01-5	cis-1,3-Dichloropropene	21	U
79-01-6	Trichloroethene	21	U
124-48-1	Dibromochloromethane	21	U
79-00-5	1,1,2-Trichloroethane	21	U
71-43-2	Benzene	21	U
10061-02-6	trans-1,3-Dichloropropene	21	U
75-25-2	Bromoform	21	U
108-10-1	4-Methyl-2-Pentanone	21	U
591-78-6	2-Hexanone	21	U
127-18-4	Tetrachloroethene	21	U
79-34-5	1,1,2,2-Tetrachloroethane	21	U
108-88-3	Toluene	21	U
108-90-7	Chlorobenzene	21	U
100-41-4	Ethylbenzene	21	U
100-42-5	Styrene	21	U
1330-20-7	Xylene (total)	21	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE N

X105

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214506

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0318BK05

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: not dec. 53 Date Analyzed: 03/18/92

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(u

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE I

X106

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214507

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0318BK06

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: not dec. 33 Date Analyzed: 03/18/92

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	15	U
74-83-9	Bromomethane	15	U
75-01-4	Vinyl Chloride	15	U
75-00-3	Chloroethane	15	U
75-09-2	Methylene Chloride	15 ~~B~~	~~BJ~~ U a
67-64-1	Acetone	23	
75-15-0	Carbon Disulfide	15	UJ
75-35-4	1,1-Dichloroethene	15	U
75-34-3	1,1-Dichloroethane	15	U
540-59-0	1,2-Dichloroethene (total)	15	U
67-66-3	Chloroform	15	U
107-06-2	1,2-Dichloroethane	15	U
78-93-3	2-Butanone	15	U
71-55-6	1,1,1-Trichloroethane	15	U
56-23-5	Carbon Tetrachloride	15	U
75-27-4	Bromodichloromethane	15	U
78-87-5	1,2-Dichloropropane	15	U
10061-01-5	cis-1,3-Dichloropropene	15	U
79-01-6	Trichloroethene	15	U
124-48-1	Dibromochloromethane	15	U
79-00-5	1,1,2-Trichloroethane	15	U
71-43-2	Benzene	15	U
10061-02-6	trans-1,3-Dichloropropene	15	U
75-25-2	Bromoform	15	U
108-10-1	4-Methyl-2-Pentanone	15	U
591-78-6	2-Hexanone	15	U
127-18-4	Tetrachloroethene	15	U
79-34-5	1,1,2,2-Tetrachloroethane	15	U
108-88-3	Toluene	15	U
108-90-7	Chlorobenzene	15	U
100-41-4	Ethylbenzene	15	U
100-42-5	Styrene	15	U
1330-20-7	Xylene (total)	15	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE N

X106

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214507

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0318BK06

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: not dec. 33 Date Analyzed: 03/18/92

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(u

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

X107

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214508

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0318BK07

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: not dec. 35 Date Analyzed: 03/18/92

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(u

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	15	U
74-83-9	Bromomethane	15	U
75-01-4	Vinyl Chloride	15	U
75-00-3	Chloroethane	15	U
75-09-2	Methylene Chloride	15	U
67-64-1	Acetone	15	U
75-15-0	Carbon Disulfide	15	UJ
75-35-4	1,1-Dichloroethene	15	U
75-34-3	1,1-Dichloroethane	15	U
540-59-0	1,2-Dichloroethene (total)	15	U
67-66-3	Chloroform	15	U
107-06-2	1,2-Dichloroethane	15	U
78-93-3	2-Butanone	15	U
71-55-6	1,1,1-Trichloroethane	15	U
56-23-5	Carbon Tetrachloride	15	U
75-27-4	Bromodichloromethane	15	U
78-87-5	1,2-Dichloropropane	15	U
10061-01-5	cis-1,3-Dichloropropene	15	U
79-01-6	Trichloroethene	15	U
124-48-1	Dibromochloromethane	15	U
79-00-5	1,1,2-Trichloroethane	15	U
71-43-2	Benzene	15	U
10061-02-6	trans-1,3-Dichloropropene	15	U
75-25-2	Bromoform	15	U
108-10-1	4-Methyl-2-Pentanone	15	U
591-78-6	2-Hexanone	15	U
127-18-4	Tetrachloroethene	15	U
79-34-5	1,1,2,2-Tetrachloroethane	15	U
108-88-3	Toluene	15	U
108-90-7	Chlorobenzene	15	U
100-41-4	Ethylbenzene	15	U
100-42-5	Styrene	15	U
1330-20-7	Xylene (total)	15	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE N

X107

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214508

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0318BK07

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: not dec. 35 Date Analyzed: 03/18/92

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(u

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

X108

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214509

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0317BK09

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: not dec. 54 Date Analyzed: 03/17/92

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(u

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	22	U
74-83-9	Bromomethane	22	U
75-01-4	Vinyl Chloride	22	U
75-00-3	Chloroethane	22	UJ
75-09-2	Methylene Chloride	22	U
67-64-1	Acetone	22 ~~13~~	~~BJ~~U
75-15-0	Carbon Disulfide	22	U
75-35-4	1,1-Dichloroethene	22	U
75-34-3	1,1-Dichloroethane	22	U
540-59-0	1,2-Dichloroethene (total)	22	U
67-66-3	Chloroform	22	U
107-06-2	1,2-Dichloroethane	22	U
78-93-3	2-Butanone	22	U
71-55-6	1,1,1-Trichloroethane	22	U
56-23-5	Carbon Tetrachloride	22	U
75-27-4	Bromodichloromethane	22	U
78-87-5	1,2-Dichloropropane	22	U
10061-01-5	cis-1,3-Dichloropropene	22	U
79-01-6	Trichloroethene	22	U
124-48-1	Dibromochloromethane	22	U
79-00-5	1,1,2-Trichloroethane	22	U
71-43-2	Benzene	22	U
10061-02-6	trans-1,3-Dichloropropene	22	U
75-25-2	Bromoform	22	U
108-10-1	4-Methyl-2-Pentanone	22	U
591-78-6	2-Hexanone	22	U
127-18-4	Tetrachloroethene	22	U
79-34-5	1,1,2,2-Tetrachloroethane	22	U
108-88-3	Toluene	22	U
108-90-7	Chlorobenzene	22	U
100-41-4	Ethylbenzene	22	U
100-42-5	Styrene	22	U
1330-20-7	Xylene (total)	22	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE N

X108

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214509

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0317BK09

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: not dec. 54 Date Analyzed: 03/17/92

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(u

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

X109

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214510

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0318BK08

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: not dec. 8 Date Analyzed: 03/18/92

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11	~~B~~ U
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	UJ
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE N

X109

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214510

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0318BK08

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: not dec. 8 Date Analyzed: 03/18/92

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(u

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

S301

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) WATER Lab Sample ID: D214511

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0318W04

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/16/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/19/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	UJ
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	UJ
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	UJ
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	UJ
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	UJ
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

S301

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) WATER Lab Sample ID: D214511

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0318W04

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/16/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/19/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	UJ
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	UJ
86-30-6	N-Nitrosodiphenylamine (1)	10	UJ
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	UJ
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

S301

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) WATER Lab Sample ID: D214511

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0318W04

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/16/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/19/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 14

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 96-19-5	1-PROPENE, 1,2,3-TRICHLORO-	6.98	6	~~BJN~~ u
2.	UNKNOWN	7.53	28	~~BJ~~ u
3. 96-19-5	1-PROPENE, 1,2,3-TRICHLORO-	7.90	7	~~BJN~~ u
4. 822-67-3	2-CYCLOHEXEN-1-OL	8.23	13	~~BAJN~~ u
5. 79-34-5	ETHANE, 1,1,2,2-TETRACHLORO-	8.77	5	~~BJN~~ u
6. 930-68-7	2-CYCLOHEXEN-1-ONE	9.19	4	~~BAJN~~ u
7.	UNKNOWN	9.54	38	~~BJ~~ u
8.	UNKNOWN	11.12	3	J
9.	UNKNOWN	13.24	84	~~BJ~~ u
10.	UNKNOWN	13.32	14	~~BJ~~ u
11.	UNKNOWN	14.79	6	~~BJ~~ u
12. 1541-20-4	BI-2-CYCLOHEXEN-1-YL	16.20	7	~~BJN~~ u
13.	UNKNOWN	16.64	2	~~BJ~~ u
14.	UNKNOWN	20.35	10	~~BJ~~ u

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

S302

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) WATER Lab Sample ID: D214416

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0318W07

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/16/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/19/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	UJ
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	UJ
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	UJ
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	UJ
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	UJ
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

S302

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) WATER Lab Sample ID: D214416

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0318W07

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/16/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/19/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
51-28-5	2,4-Dinitrophenol	25	UJ
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	UJ
86-30-6	N-Nitrosodiphenylamine (1)	10	UJ
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	UJ
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	2	J
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE :

S302

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) WATER Lab Sample ID: D214416

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0318W07

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/16/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/19/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 14

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.53	27	~~BJ~~ U
2.	UNKNOWN KETONE	8.22	13	~~BAJ~~ U
3.	UNKNOWN	8.49	4	J
4. 2441-97-6	CYCLOHEXENE, 3-CHLORO-	8.67	4	~~BJN~~
5. 930-68-7	2-CYCLOHEXEN-1-ONE	9.19	4	~~BAJN~~
6.	UNKNOWN	9.52	13	~~BJ~~ U
7.	UNKNOWN	11.09	3	~~BJ~~ U
8.	UNKNOWN	11.10	1	J
9.	UNKNOWN	13.22	45	~~BJ~~ U
10.	UNKNOWN	13.30	3	~~BJ~~ U
11.	UNKNOWN	14.79	3	~~BJ~~ U
12.	UNKNOWN	24.30	3	J
13.	UNKNOWN	24.67	8	J
14.	UNKNOWN	24.74	5	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

S303

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) WATER Lab Sample ID: D214417

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0318W05

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/16/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/19/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	UJ
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	UJ
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	UJ
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	UJ
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	UJ
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE I

S303

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) WATER Lab Sample ID: D214417

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0318W05

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/16/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/19/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	UJ
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	UJ
86-30-6	N-Nitrosodiphenylamine (1)	10	UJ
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	UJ
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

S303

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) WATER Lab Sample ID: D214417

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0318W05

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/16/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/19/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 96-19-5	1-PROPENE, 1,2,3-TRICHLORO-	6.95	3	~~BJN~~ U
2.	UNKNOWN	7.52	24	~~BJ~~ U
3. 96-19-5	1-PROPENE, 1,2,3-TRICHLORO-	7.87	3	~~BJN~~ U
4. 822-67-3	2-CYCLOHEXEN-1-OL	8.20	9	~~BAJN~~ U
5.	UNKNOWN	8.47	8	J
6.	UNKNOWN	9.50	16	~~BJ~~ U
7.	UNKNOWN	12.07	3	~~BJ~~ U
8.	UNKNOWN	13.22	36	~~BJ~~ U
9.	UNKNOWN	15.24	4	J
10.	UNKNOWN	24.65	3	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

S304

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) WATER Lab Sample ID: D214418

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0 3W06

Level: (low/med) LOW Date Received: 03/.2/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/16/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/19/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	UJ
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	UJ
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	UJ
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	UJ
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	UJ
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

S304

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) WATER Lab Sample ID: D214418

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0318W06

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/16/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/19/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	UJ
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	UJ
86-30-6	N-Nitrosodiphenylamine (1)	10	UJ
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	UJ
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE

S304

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) WATER Lab Sample ID: D214418

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0318W06

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/16/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/19/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5.0

Number TICs found: 11

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 96-19-5	1-PROPENE, 1,2,3-TRICHLORO-	6.95	5	~~BJN~~ U
2.	UNKNOWN	7.52	6	~~BJ~~ U
3. 96-19-5	1-PROPENE, 1,2,3-TRICHLORO-	7.87	5	~~BJN~~ U
4. 822-67-3	2-CYCLOHEXEN-1-OL	8.22	4	~~BAJN~~ U
5.	UNKNOWN	9.52	36	~~BJ~~ U
6.	UNKNOWN	11.10	2	J
7.	UNKNOWN	13.22	64	~~BJ~~ U
8.	UNKNOWN	13.30	7	~~BJ~~ U
9.	UNKNOWN	14.79	4	~~BJ~~ U
10.	UNKNOWN	16.17	4	~~BJ~~ U
11.	UNKNOWN	20.32	6	~~BJ~~ U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

S305

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) WATER Lab Sample ID: D214419

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0318W08

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/16/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/19/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	UJ
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	UJ
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	UJ
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	UJ
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	UJ
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE I

S305

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) WATER Lab Sample ID: D214419

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0318W08

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/16/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/19/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
51-28-5	2,4-Dinitrophenol	25	UJ
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	UJ
86-30-6	N-Nitrosodiphenylamine (1)	10	UJ
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	UJ
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE No.

S305

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) WATER Lab Sample ID: D214419

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0318W08

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/16/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/19/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5.0

Number TICs found: 12

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.85	120	J
2. 822-67-3	2-CYCLOHEXEN-1-OL	8.22	3	~~BAJ~~NU
3.	UNKNOWN	8.49	24	J
4.	UNKNWON	12.42	5	~~BJ~~U
5.	UNKNOWN	14.34	4	~~BJ~~U
6.	UNKNOWN	16.44	5	~~BJ~~U
7.	UNKNWON ALIP. HYDROCARBON	20.57	27	J
8.	UNKNOWN	21.89	2	J
9.	UNKNOWN	22.40	47	J
10.	UNKNOWN	22.65	13	J
11.	UNKNOWN	22.87	24	J
12.	UNKNOWN	23.64	7	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE

X103

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214504

Sample wt/vol: 30.2 (g/mL) G Lab File ID: B0320W04

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: 33 decanted: (Y/N) N Date Extracted: 03/12/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/20/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	490	U
111-44-4	bis(2-Chloroethyl)Ether	490	U
95-57-8	2-Chlorophenol	490	U
541-73-1	1,3-Dichlorobenzene	490	U
106-46-7	1,4-Dichlorobenzene	490	U
95-50-1	1,2-Dichlorobenzene	490	U
95-48-7	2-Methylphenol	490	U
108-60-1	2,2'-oxybis(1-Chloropropane)	490	U
106-44-5	4-Methylphenol	490	U
621-64-7	N-Nitroso-Di-n-Propylamine	490	U
67-72-1	Hexachloroethane	490	U
98-95-3	Nitrobenzene	490	U
78-59-1	Isophorone	490	U
88-75-5	2-Nitrophenol	490	U
105-67-9	2,4-Dimethylphenol	490	U
111-91-1	bis(2-Chloroethoxy)Methane	490	U
120-83-2	2,4-Dichlorophenol	490	U
120-82-1	1,2,4-Trichlorobenzene	490	U
91-20-3	Naphthalene	490	U
106-47-8	4-Chloroaniline	490	UJ
87-68-3	Hexachlorobutadiene	490	U
59-50-7	4-Chloro-3-Methylphenol	490	U
91-57-6	2-Methylnaphthalene	490	U
77-47-4	Hexachlorocyclopentadiene	490	U
88-06-2	2,4,6-Trichlorophenol	490	U
95-95-4	2,4,5-Trichlorophenol	1200	U
91-58-7	2-Chloronaphthalene	490	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	490	U
208-96-8	Acenaphthylene	490	U
606-20-2	2,6-Dinitrotoluene	490	U
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	490	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

X103

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214504

Sample wt/vol: 30.2 (g/mL) G Lab File ID: B0320W04

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: 33 decanted: (Y/N) N Date Extracted: 03/12/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/20/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200	UJ
100-02-7	4-Nitrophenol	1200	U
132-64-9	Dibenzofuran	490	U
121-14-2	2,4-Dinitrotoluene	490	U
84-66-2	Diethylphthalate	490	U
7005-72-3	4-Chlorophenyl-phenylether	490	U
86-73-7	Fluorene	490	U
100-10-6	4-Nitroaniline	1200	UJ
534-52-1	4,6-Dinitro-2-methylphenol	1200	U
86-30-6	N-Nitrosodiphenylamine (1)	490	UJ
101-55-3	4-Bromophenyl-phenylether	490	U
118-74-1	Hexachlorobenzene	490	UJ
87-86-5	Pentachlorophenol	1200	U
85-01-8	Phenanthrene	490	U
120-12-7	Anthracene	490	U
86-74-8	Carbazole	490	U
84-74-2	Di-n-Butylphthalate	490	U
206-44-0	Fluoranthene	490	U
129-00-0	Pyrene	490	U
85-68-7	Butylbenzylphthalate	490	U
91-94-1	3,3'-Dichlorobenzidine	490	UJ
56-55-3	Benzo(a)Anthracene	490	U
218-01-9	Chrysene	490	U
117-81-7	bis(2-Ethylhexyl)Phthalate	490	U
117-84-0	Di-n-Octyl Phthalate	490	UJ
205-99-2	Benzo(b)Fluoranthene	490	U
207-08-9	Benzo(k)Fluoranthene	490	UJ
50-32-8	Benzo(a)Pyrene	490	UJ
193-39-5	Indeno(1,2,3-cd)Pyrene	490	U
53-70-3	Dibenz(a,h)Anthracene	490	U
191-24-2	Benzo(g,h,i)Perylene	490	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE I

X103

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214504

Sample wt/vol: 30.2 (g/mL) G Lab File ID: B0320W04

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: 33 decanted: (Y/N) N Date Extracted: 03/12/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/20/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8

Number TICs found: 19

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.52	1100	J
2.	UNKNOWN KETONE	7.23	8800	~~BAJ~~ U
3.	UNKNOWN	7.52	420	J
4.	UNKNOWN	8.80	350	~~BJ~~ U
5. 930-68-7	2-CYCLOHEXEN-1-ONE	9.14	170	~~BJN~~ U
6.	UNKNOWN	9.45	890	~~BJ~~ U
7. 100-52-7	BENZALDEHYDE	9.75	440	~~BJN~~ U
8.	UNKNOWN PHTHALATE	22.74	1200	~~BJ~~ U
9.	UNKNOWN	23.57	250	J
10.	UNKNOWN	25.41	530	J
11.	UNKNOWN	27.51	810	J
12.	UNKNOWN ALIP. ESTER	27.77	360	~~BJ~~ U
13.	UNKNOWN	28.59	1100	J
14.	UNKNOWN ALIP. HYDROCARBON	29.42	220	J
15.	UNKNOWN ALIP. HYDROCARBON	30.29	1000	J
16.	UNKNOWN	31.67	1800	~~BJ~~ U
17.	UNKNOWN ALIP. HYDROCARBON	32.34	2400	J
18.	UNKNOWN	32.44	840	J
19.	UNKNOWN ALIP. HYDROCARBON	35.27	1500	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

X104

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214505

Sample wt/vol: 30.5 (g/mL) G Lab File ID: B0320W03

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: 44 decanted: (Y/N) N Date Extracted: 03/12/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/20/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	580	U
111-44-4	bis(2-Chloroethyl)Ether	580	U
95-57-8	2-Chlorophenol	580	U
541-73-1	1,3-Dichlorobenzene	580	U
106-46-7	1,4-Dichlorobenzene	580	U
95-50-1	1,2-Dichlorobenzene	580	U
95-48-7	2-Methylphenol	580	U
108-60-1	2,2'-oxybis(1-Chloropropane)	580	U
106-44-5	4-Methylphenol	580	U
621-64-7	N-Nitroso-Di-n-Propylamine	580	U
67-72-1	Hexachloroethane	580	U
98-95-3	Nitrobenzene	580	U
78-59-1	Isophorone	580	U
88-75-5	2-Nitrophenol	580	U
105-67-9	2,4-Dimethylphenol	580	U
111-91-1	bis(2-Chloroethoxy)Methane	580	U
120-83-2	2,4-Dichlorophenol	580	U
120-82-1	1,2,4-Trichlorobenzene	580	U
91-20-3	Naphthalene	580	U
106-47-8	4-Chloroaniline	580	UJ
87-68-3	Hexachlorobutadiene	580	U
59-50-7	4-Chloro-3-Methylphenol	580	U
91-57-6	2-Methylnaphthalene	580	U
77-47-4	Hexachlorocyclopentadiene	580	U
88-06-2	2,4,6-Trichlorophenol	580	U
95-95-4	2,4,5-Trichlorophenol	1400	U
91-58-7	2-Chloronaphthalene	580	U
88-74-4	2-Nitroaniline	1400	U
131-11-3	Dimethylphthalate	580	U
208-96-8	Acenaphthylene	580	U
606-20-2	2,6-Dinitrotoluene	580	U
99-09-2	3-Nitroaniline	1400	U
83-32-9	Acenaphthene	580	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE

X104

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214505

Sample wt/vol: 30.5 (g/mL) G Lab File ID: B0320W03

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: 44 decanted: (Y/N) N Date Extracted: 03/12/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/20/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1400	UJ
100-02-7	4-Nitrophenol	1400	U
132-64-9	Dibenzofuran	580	U
121-14-2	2,4-Dinitrotoluene	580	U
84-66-2	Diethylphthalate	580	U
7005-72-3	4-Chlorophenyl-phenylether	580	U
86-73-7	Fluorene	580	U
100-10-6	4-Nitroaniline	1400	UJ
534-52-1	4,6-Dinitro-2-methylphenol	1400	U
86-30-6	N-Nitrosodiphenylamine (1)	580	UJ
101-55-3	4-Bromophenyl-phenylether	580	U
118-74-1	Hexachlorobenzene	580	UJ
87-86-5	Pentachlorophenol	1400	U
85-01-8	Phenanthrene	67	J
120-12-7	Anthracene	580	U
86-74-8	Carbazole	580	U
84-74-2	Di-n-Butylphthalate	580	U
206-44-0	Fluoranthene	150	J
129-00-0	Pyrene	230	J
85-68-7	Butylbenzylphthalate	580	U
91-94-1	3,3'-Dichlorobenzidine	580	UJ
56-55-3	Benzo(a)Anthracene	580	U
218-01-9	Chrysene	130	J
117-81-7	bis(2-Ethylhexyl)Phthalate	650	
117-84-0	Di-n-Octyl Phthalate	580	UJ
205-99-2	Benzo(b)Fluoranthene	580	U
207-08-9	Benzo(k)Fluoranthene	580	UJ
50-32-8	Benzo(a)Pyrene	580	UJ
193-39-5	Indeno(1,2,3-cd)Pyrene	580	U
53-70-3	Dibenz(a,h)Anthracene	580	U
191-24-2	Benzo(g,h,i)Perylene	580	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE No.

X104

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214505

Sample wt/vol: 30.5 (g/mL) G Lab File ID: B0320W03

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: 44 decanted: (Y/N) N Date Extracted: 03/12/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/20/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5

Number TICs found: 28

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN KETONE	7.28	10000	~~BMJ~~ U
2.	UNKNOWN	9.45	1600	~~BJ~~ U
3. 100-52-7	BENZALDEHYDE	9.75	1700	~~BJN~~ U
4.	UNKNOWN	24.82	920	J
5.	UNKNOWN	26.67	130	J
6.	UNKNOWN	26.82	310	J
7.	UNKNOWN ALIP. HYDROCARBON	26.86	510	J
8.	UNKNOWN ALIP. HYDROCARBON	27.04	220	J
9.	UNKNOWN	27.24	160	J
10.	UNKNOWN	27.39	120	J
11.	UNKNOWN	27.51	280	J
12.	UNKNOWN	27.74	360	J
13.	UNKNOWN	28.04	150	J
14.	UNKNOWN	28.21	23	J
15.	UNKNOWN	28.39	150	J
16.	UNKNOWN	28.59	1500	J
17.	UNKNOWN	29.42	360	J
18.	UNKNOWN	29.46	150	J
19.	UNKNOWN ALIP. HYDROCARBON	29.92	300	J
20.	UNKNOWN ALIP. HYDROCARBON	30.27	1300	J
21.	UNKNOWN	30.36	290	J
22.	UNKNOWN	30.44	160	J
23.	UNKNOWN ALIP. HYDROCARBON	31.22	550	J
24.	UNKNOWN	31.41	160	J
25.	UNKNOWN	31.46	320	J
26.	UNKNOWN	31.69	1100	~~BJ~~ U
27.	UNKNOWN ALIP. HYDROCARBON	32.36	3300	J
28.	UNKNOWN	32.44	1600	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE

X105

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214506

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0319W09

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: 53 decanted: (Y/N) N Date Extracted: 03/12/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/19/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	J
111-44-4	bis(2-Chloroethyl)Ether	700	U
95-57-8	2-Chlorophenol	700	U
541-73-1	1,3-Dichlorobenzene	700	U
106-46-7	1,4-Dichlorobenzene	700	U
95-50-1	1,2-Dichlorobenzene	700	U
95-48-7	2-Methylphenol	700	U
108-60-1	2,2'-oxybis(1-Chloropropane)	700	UJ
106-44-5	4-Methylphenol	700	U
621-64-7	N-Nitroso-Di-n-Propylamine	700	U
67-72-1	Hexachloroethane	700	U
98-95-3	Nitrobenzene	700	U
78-59-1	Isophorone	700	U
88-75-5	2-Nitrophenol	700	U
105-67-9	2,4-Dimethylphenol	700	U
111-91-1	bis(2-Chloroethoxy)Methane	700	U
120-83-2	2,4-Dichlorophenol	700	U
120-82-1	1,2,4-Trichlorobenzene	700	U
91-20-3	Naphthalene	700	U
106-47-8	4-Chloroaniline	700	UJ
87-68-3	Hexachlorobutadiene	700	U
59-50-7	4-Chloro-3-Methylphenol	700	U
91-57-6	2-Methylnaphthalene	700	U
77-47-4	Hexachlorocyclopentadiene	700	U
88-06-2	2,4,6-Trichlorophenol	700	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	700	U
88-74-4	2-Nitroaniline	1700	UJ
131-11-3	Dimethylphthalate	700	U
208-96-8	Acenaphthylene	700	U
606-20-2	2,6-Dinitrotoluene	700	U
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	700	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

X105

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214506

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0319W09

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: 53 decanted: (Y/N) N Date Extracted: 03/12/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/19/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	700	U
121-14-2	2,4-Dinitrotoluene	700	U
84-66-2	Diethylphthalate	700	U
7005-72-3	4-Chlorophenyl-phenylether	700	U
86-73-7	Fluorene	700	U
100-10-6	4-Nitroaniline	1700	UJ
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	700	U
101-55-3	4-Bromophenyl-phenylether	700	U
118-74-1	Hexachlorobenzene	700	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	100	J
120-12-7	Anthracene	700	U
86-74-8	Carbazole	700	U
84-74-2	Di-n-Butylphthalate	700	U
206-44-0	Fluoranthene	220	J
129-00-0	Pyrene	230	J
85-68-7	Butylbenzylphthalate	700	U
91-94-1	3,3'-Dichlorobenzidine	700	U
56-55-3	Benzo(a)Anthracene	110	J
218-01-9	Chrysene	150	J
117-81-7	bis(2-Ethylhexyl)Phthalate	750	
117-84-0	Di-n-Octyl Phthalate	700	U
205-99-2	Benzo(b)Fluoranthene	190	J
207-08-9	Benzo(k)Fluoranthene	97	J
50-32-8	Benzo(a)Pyrene	110	J
193-39-5	Indeno(1,2,3-cd)Pyrene	700	U
53-70-3	Dibenz(a,h)Anthracene	700	U
191-24-2	Benzo(g,h,i)Perylene	700	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE

X105

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214506

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0319W09

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: 53 decanted: (Y/N) N Date Extracted: 03/12/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/19/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6

Number TICs found: 29

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN KETONE	7.37	13000	~~BJ~~ U
2. 100-52-7	BENZALDEHYDE	9.82	7800	~~BJ~~ N
3.	UNKNOWN	22.65	2400	J
4.	UNKNOWN PHTHALATE	22.80	1600	~~BJ~~
5.	UNKNOWN	22.87	11000	J
6.	UNKNOWN	23.65	1600	J
7.	UNKNOWN	24.65	1100	J
8.	UNKNOWN	24.89	1400	J
9.	UNKNOWN	26.87	400	J
10.	UNKNOWN ALIP. HYDROCARBON	26.92	400	J
11.	UNKNOWN	27.81	210	J
12.	UNKNOWN ALIP. HYDORCARBON	27.82	400	J
13.	UNKNOWN	28.42	58	J
14.	UNKNOWN	28.46	130	J
15.	UNKNOWN	28.66	1200	J
16.	UNKNOWN	28.67	1500	J
17.	UNKNOWN	29.51	390	J
18.	UNKNOWN ALIP. HYDROCARBON	30.01	380	J
19.	UNKNOWN ALIP. HYDROCARBON	30.34	1500	J
20.	UNKNOWN	30.44	180	J
21.	UNKNOWN	31.02	430	J
22.	UNKNOWN	31.77	3000	~~BJ~~ U
23.	UNKNOWN	32.02	1000	J
24.	UNKNOWN	32.11	1600	J
25.	UNKNOWN ALIP. HYDROCARBON	32.46	3600	J
26.	UNKNOWN ALIP. HYDROCARBON	32.52	3100	J
27.	UNKNOWN	34.92	5900	J
28.	UNKNOWN	36.79	10000	J
29.	UNKNOWN	39.01	3900	J

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

X106

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214507

Sample wt/vol: 30.9 (g/mL) G Lab File ID: B0319W07

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: 33 decanted: (Y/N) N Date Extracted: 03/12/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/19/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	50	J
111-44-4	bis(2-Chloroethyl)Ether	480	U
95-57-8	2-Chlorophenol	480	U
541-73-1	1,3-Dichlorobenzene	480	U
106-46-7	1,4-Dichlorobenzene	480	U
95-50-1	1,2-Dichlorobenzene	480	U
95-48-7	2-Methylphenol	480	U
108-60-1	2,2'-oxybis(1-Chloropropane)	480	UJ
106-44-5	4-Methylphenol	480	U
621-64-7	N-Nitroso-Di-n-Propylamine	480	U
67-72-1	Hexachloroethane	480	U
98-95-3	Nitrobenzene	480	U
78-59-1	Isophorone	480	U
88-75-5	2-Nitrophenol	480	U
105-67-9	2,4-Dimethylphenol	480	U
111-91-1	bis(2-Chloroethoxy)Methane	480	U
120-83-2	2,4-Dichlorophenol	480	U
120-82-1	1,2,4-Trichlorobenzene	480	U
91-20-3	Naphthalene	480	U
106-47-8	4-Chloroaniline	480	UJ
87-68-3	Hexachlorobutadiene	480	U
59-50-7	4-Chloro-3-Methylphenol	480	U
91-57-6	2-Methylnaphthalene	480	U
77-47-4	Hexachlorocyclopentadiene	480	U
88-06-2	2,4,6-Trichlorophenol	480	U
95-95-4	2,4,5-Trichlorophenol	1200	U
91-58-7	2-Chloronaphthalene	480	U
88-74-4	2-Nitroaniline	1200	UJ
131-11-3	Dimethylphthalate	480	U
208-96-8	Acenaphthylene	480	U
606-20-2	2,6-Dinitrotoluene	480	U
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	480	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE

X106

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214507

Sample wt/vol: 30.9 (g/mL) G Lab File ID: B0..9W07

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: 33 decanted: (Y/N) N Date Extracted: 03/12/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/19/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200	U
100-02-7	4-Nitrophenol	1200	U
132-64-9	Dibenzofuran	480	U
121-14-2	2,4-Dinitrotoluene	480	U
84-66-2	Diethylphthalate	480	U
7005-72-3	4-Chlorophenyl-phenylether	480	U
86-73-7	Fluorene	480	U
100-10-6	4-Nitroaniline	1200	UJ
534-52-1	4,6-Dinitro-2-methylphenol	1200	U
86-30-6	N-Nitrosodiphenylamine (1)	480	U
101-55-3	4-Bromophenyl-phenylether	480	U
118-74-1	Hexachlorobenzene	480	U
87-86-5	Pentachlorophenol	1200	U
85-01-8	Phenanthrene	50	J
120-12-7	Anthracene	480	U
86-74-8	Carbazole	480	U
84-74-2	Di-n-Butylphthalate	480	U
206-44-0	Fluoranthene	120	J
129-00-0	Pyrene	190	J
85-68-7	Butylbenzylphthalate	480	U
91-94-1	3,3'-Dichlorobenzidine	480	U
56-55-3	Benzo(a)Anthracene	480	U
218-01-9	Chrysene	100	J
117-81-7	bis(2-Ethylhexyl)Phthalate	370	J
117-84-0	Di-n-Octyl Phthalate	480	U
205-99-2	Benzo(b)Fluoranthene	170	J
207-08-9	Benzo(k)Fluoranthene	480	UJ
50-32-8	Benzo(a)Pyrene	61	J
193-39-5	Indeno(1,2,3-cd)Pyrene	480	U
53-70-3	Dibenz(a,h)Anthracene	480	U
191-24-2	Benzo(g,h,i)Perylene	480	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE

X106

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214507

Sample wt/vol: 30.9 (g/mL) G Lab File ID: B0319W07

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: 33 decanted: (Y/N) N Date Extracted: 03/12/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/19/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1

Number TICs found: 26

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN KETONE	7.35	9600	~~BJ~~ U
2.	UNKNOWN	9.47	1300	~~BJ~~ U
3. 100-52-7	BENZALDEHYDE	9.77	1500	~~BJN~~ U
4.	UNKNOWN	16.64	340	J
5.	UNKNOWN ALIP. HYDROCARBON	20.84	1300	J
6.	UNKNOWN PHTHALATE	22.77	1100	~~BJ~~ U
7.	UNKNOWN ALIP. HYDROCARBON	26.91	280	J
8.	UNKNOWN	27.42	95	J
9.	UNKNOWN	27.79	310	J
10.	UNKNOWN	28.19	100	J
11.	UNKNOWN	28.37	300	J
12.	UNKNOWN	28.41	300	J
13.	UNKNOWN	28.64	690	J
14.	UNKNOWN	28.82	980	J
15.	UNKNOWN ALIP. HYDROCARBON	29.47	220	J
16.	UNKNOWN	29.49	180	J
17.	UNKNOWN	29.72	120	J
18.	UNKNOWN ALIP. HDYROCARBON	29.97	290	J
19.	UNKNOWN	30.32	460	J
20.	UNKNOWN	30.51	140	J
21.	UNKNOWN	31.29	260	J
22.	UNKNOWN	31.47	150	J
23.	UNKNOWN	31.51	180	J
24.	UNKNOWN	31.74	500	J
25.	UNKNOWN	32.01	220	J
26.	UNKNOWN ALIP. HYDROCARBON	32.42	820	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE

X107

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214508

Sample wt/vol: 30.5 (g/mL) G Lab File ID: B0317W14

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: 35 decanted: (Y/N) N Date Extracted: 03/12/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/17/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	500	U
111-44-4	bis(2-Chloroethyl)Ether	500	UJ
95-57-8	2-Chlorophenol	500	U
541-73-1	1,3-Dichlorobenzene	500	U
106-46-7	1,4-Dichlorobenzene	500	U
95-50-1	1,2-Dichlorobenzene	500	U
95-48-7	2-Methylphenol	500	U
108-60-1	2,2'-oxybis(1-Chloropropane)	500	UJ
106-44-5	4-Methylphenol	500	U
621-64-7	N-Nitroso-Di-n-Propylamine	500	UJ
67-72-1	Hexachloroethane	500	U
98-95-3	Nitrobenzene	500	U
78-59-1	Isophorone	500	U
88-75-5	2-Nitrophenol	500	UJ
105-67-9	2,4-Dimethylphenol	500	UJ
111-91-1	bis(2-Chloroethoxy)Methane	500	U
120-83-2	2,4-Dichlorophenol	500	U
120-82-1	1,2,4-Trichlorobenzene	500	U
91-20-3	Naphthalene	500	U
106-47-8	4-Chloroaniline	500	UJ
87-68-3	Hexachlorobutadiene	500	U
59-50-7	4-Chloro-3-Methylphenol	500	U
91-57-6	2-Methylnaphthalene	500	U
77-47-4	Hexachlorocyclopentadiene	500	UJ
88-06-2	2,4,6-Trichlorophenol	500	U
95-95-4	2,4,5-Trichlorophenol	1200	U
91-58-7	2-Chloronaphthalene	500	U
88-74-4	2-Nitroaniline	1200	UJ
131-11-3	Dimethylphthalate	500	U
208-96-8	Acenaphthylene	500	U
606-20-2	2,6-Dinitrotoluene	500	U
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	500	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

X107

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214508

Sample wt/vol: 30.5 (g/mL) G Lab File ID: B0317W14

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: 35 decanted: (Y/N) N Date Extracted: 03/12/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/17/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200	UJ
100-02-7	4-Nitrophenol	1200	U
132-64-9	Dibenzofuran	500	U
121-14-2	2,4-Dinitrotoluene	500	U
84-66-2	Diethylphthalate	500	U
7005-72-3	4-Chlorophenyl-phenylether	500	U
86-73-7	Fluorene	500	U
100-10-6	4-Nitroaniline	1200	U
534-52-1	4,6-Dinitro-2-methylphenol	1200	UJ
86-30-6	N-Nitrosodiphenylamine (1)	500	UJ
101-55-3	4-Bromophenyl-phenylether	500	U
118-74-1	Hexachlorobenzene	500	U
87-86-5	Pentachlorophenol	1200	U
85-01-8	Phenanthrene	500	U
120-12-7	Anthracene	500	U
86-74-8	Carbazole	500	U
84-74-2	Di-n-Butylphthalate	500	U
206-44-0	Fluoranthene	500	U
129-00-0	Pyrene	500	U
85-68-7	Butylbenzylphthalate	500	UJ
91-94-1	3,3'-Dichlorobenzidine	500	U
56-55-3	Benzo(a)Anthracene	500	U
218-01-9	Chrysene	500	U
117-81-7	bis(2-Ethylhexyl)Phthalate	120	J
117-84-0	Di-n-Octyl Phthalate	500	UJ
205-99-2	Benzo(b)Fluoranthene	500	U
207-08-9	Benzo(k)Fluoranthene	500	U
50-32-8	Benzo(a)Pyrene	500	U
193-39-5	Indeno(1,2,3-cd)Pyrene	500	U
53-70-3	Dibenz(a,h)Anthracene	500	U
191-24-2	Benzo(g,h,i)Perylene	500	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE

X107

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214508

Sample wt/vol: 30.5 (g/mL) G Lab File ID: B0317W14

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: 35 decanted: (Y/N) N Date Extracted: 03/12/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/17/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.8

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN KETONE	7.40	9200	~~BJ~~ U
2.	UNKNOWN	7.58	260	J
3.	UNKNOWN	8.87	670	~~BJ~~ U
4.	UNKNOWN	9.52	1200	~~BJ~~ U
5. 100-52-7	BENZALDEHYDE	9.82	780	~~BJN~~ U
6.	UNKNOWN	11.50	950	J
7.	UNKNOWN ALIP. HYDROCARBON	20.54	530	J
8.	UNKNOWN PHTHALATE	22.75	860	~~BJ~~ U
9.	UNKNOWN	23.60	390	J
10.	UNKNOWN	29.32	480	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

X108

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214509

Sample wt/vol: 30.3 (g/mL) G Lab File ID: B0319W06

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: 54 decanted: (Y/N) N Date Extracted: 03/12/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/19/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	710	U
111-44-4	bis(2-Chloroethyl)Ether	710	U
95-57-8	2-Chlorophenol	710	U
541-73-1	1,3-Dichlorobenzene	710	U
106-46-7	1,4-Dichlorobenzene	710	U
95-50-1	1,2-Dichlorobenzene	710	U
95-48-7	2-Methylphenol	710	U
108-60-1	2,2'-oxybis(1-Chloropropane)	710	UJ
106-44-5	4-Methylphenol	710	U
621-64-7	N-Nitroso-Di-n-Propylamine	710	U
67-72-1	Hexachloroethane	710	U
98-95-3	Nitrobenzene	710	U
78-59-1	Isophorone	710	U
88-75-5	2-Nitrophenol	710	U
105-67-9	2,4-Dimethylphenol	710	U
111-91-1	bis(2-Chloroethoxy)Methane	710	U
120-83-2	2,4-Dichlorophenol	710	U
120-82-1	1,2,4-Trichlorobenzene	710	U
91-20-3	Naphthalene	710	U
106-47-8	4-Chloroaniline	710	UJ
87-68-3	Hexachlorobutadiene	710	U
59-50-7	4-Chloro-3-Methylphenol	710	U
91-57-6	2-Methylnaphthalene	160	J
77-47-4	Hexachlorocyclopentadiene	710	U
88-06-2	2,4,6-Trichlorophenol	710	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	710	U
88-74-4	2-Nitroaniline	1700	UJ
131-11-3	Dimethylphthalate	710	U
208-96-8	Acenaphthylene	710	U
606-20-2	2,6-Dinitrotoluene	710	U
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	710	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE

X108

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214509

Sample wt/vol: 30.3 (g/mL) G Lab File ID: B0319W06

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: 54 decanted: (Y/N) N Date Extracted: 03/12/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/19/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	710	U
121-14-2	2,4-Dinitrotoluene	710	U
84-66-2	Diethylphthalate	710	U
7005-72-3	4-Chlorophenyl-phenylether	710	U
86-73-7	Fluorene	710	U
100-10-6	4-Nitroaniline	1700	UJ
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	710	U
101-55-3	4-Bromophenyl-phenylether	710	U
118-74-1	Hexachlorobenzene	710	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	190	J
120-12-7	Anthracene	710	U
86-74-8	Carbazole	710	U
84-74-2	Di-n-Butylphthalate	710	U
206-44-0	Fluoranthene	160	J
129-00-0	Pyrene	200	J
85-68-7	Butylbenzylphthalate	710	U
91-94-1	3,3'-Dichlorobenzidine	710	U
56-55-3	Benzo(a)Anthracene	120	J
218-01-9	Chrysene	170	J
117-81-7	bis(2-Ethylhexyl)Phthalate	120	J
117-84-0	Di-n-Octyl Phthalate	710	U
205-99-2	Benzo(b)Fluoranthene	320	J
207-08-9	Benzo(k)Fluoranthene	710	UJ
50-32-8	Benzo(a)Pyrene	130	J
193-39-5	Indeno(1,2,3-cd)Pyrene	710	U
53-70-3	Dibenz(a,h)Anthracene	710	U
191-24-2	Benzo(g,h,i)Perylene	710	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE I

X108

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214509

Sample wt/vol: 30.3 (g/mL) G Lab File ID: B0319W06

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: 54 decanted: (Y/N) N Date Extracted: 03/12/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/19/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6

Number TICs found: 25

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN KETONE	7.38	15000	~~BJ~~ U
2.	UNKNOWN ALIP. HYDROCARBON	7.53	530	~~BJ~~ U
3.	UNKNOWN	8.82	1400	~~BJ~~ U
4.	UNKNOWN	9.50	4300	~~BJ~~ U
5. 100-52-7	BENZALDEHYDE	9.79	730	~~BJN~~ U
6.	UNKNOWN ALIP. HYDROCARBON	20.77	380	J
7.	UNKNOWN ALIP. HYDROCARBON	20.85	770	J
8.	UNKNOWN ALIP. HDYROCARBON	22.04	310	J
9.	UNKNOWN	23.60	240	J
10.	UNKNOWN ALIP. HYDROCARBON	24.04	240	J
11.	UNKNOWN	24.22	250	J
12.	UNKNOWN ALIP. HYDROCARBON	25.04	250	J
13.	UNKNOWN ALIP. HDYROCARBON	26.01	270	J
14.	UNKNOWN ALIP. HYDROCARBON	26.92	380	J
15.	UNKNOWN ALIP. HYDROCARBON	27.81	360	J
16.	UNKNOWN ALIP. HYDROCARBON	28.64	1200	J
17.	UNKNOWN ALIP. HYDROCARBON	29.47	400	J
18.	UNKNOWN ALIP. HYDROCARBON	30.32	1500	J
19.	UNKNOWN	30.51	140	J
20.	UNKNOWN ALIP. HYDROCARBON	31.29	700	J
21.	UNKNOWN	31.52	190	J
22.	UNKNOWN	31.76	1000	~~BJ~~ U
23.	UNKNOWN ALIP. HYDROCARBON	32.44	3700	J
24.	UNKNOWN ALIP. HYDROCARBON	32.52	1100	J
25.	UNKNOWN	41.46	1200	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE

X109

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214510

Sample wt/vol: 30.3 (g/mL) G Lab File ID: B0: 9W05

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: 8 decanted: (Y/N) N Date Extracted: 03/12/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/19/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)Ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	UJ
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-Di-n-Propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
111-91-1	bis(2-Chloroethoxy)Methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	UJ
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-Methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	860	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	860	UJ
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	860	U
83-32-9	Acenaphthene	360	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE

X109

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214510

Sample wt/vol: 30.3 (g/mL) G Lab File ID: B0319W05

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: 8 decanted: (Y/N) N Date Extracted: 03/12/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/19/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	860	U
100-02-7	4-Nitrophenol	860	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-10-6	4-Nitroaniline	860	UJ
534-52-1	4,6-Dinitro-2-methylphenol	860	U
86-30-6	N-Nitrosodiphenylamine (1)	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	860	U
85-01-8	Phenanthrene	52	J
120-12-7	Anthracene	360	U
86-74-8	Carbazole	360	U
84-74-2	Di-n-Butylphthalate	360	U
206-44-0	Fluoranthene	60	J
129-00-0	Pyrene	55	J
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo(a)Anthracene	360	U
218-01-9	Chrysene	360	U
117-81-7	bis(2-Ethylhexyl)Phthalate	360	U
117-84-0	Di-n-Octyl Phthalate	360	U
205-99-2	Benzo(b)Fluoranthene	360	U
207-08-9	Benzo(k)Fluoranthene	360	UJ
50-32-8	Benzo(a)Pyrene	360	UJ
193-39-5	Indeno(1,2,3-cd)Pyrene	360	U
53-70-3	Dibenz(a,h)Anthracene	360	U
191-24-2	Benzo(g,h,i)Perylene	360	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE

X109

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214510

Sample wt/vol: 30.3 (g/mL) G Lab File ID: B0319W05

Level: (low/med) LOW Date Received: 03/12/92

% Moisture: 8 decanted: (Y/N) N Date Extracted: 03/12/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 03/19/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

Number TICs found: 25

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN KETONE	7.37	7800	~~BJ~~ J
2.	UNKNOWN	28.87	17	J
3.	UNKNOWN	29.36	170	J
4.	UNKNOWN	29.41	84	J
5.	UNKNOWN ALIP. HYDROCARBON	29.47	120	J
6.	UNKNOWN	29.74	340	J
7.	UNKNOWN	29.81	210	J
8.	UNKNOWN	29.99	140	J
9.	UNKNOWN	30.34	120	J
10.	UNKNOWN	30.39	90	J
11.	UNKNOWN	30.41	170	J
12.	UNKNOWN	30.52	200	J
13.	UNKNOWN	30.71	84	J
14.	UNKNOWN	31.39	120	J
15.	UNKNOWN	31.51	210	J
16.	UNKNOWN	31.61	130	J
17.	UNKNOWN	31.76	300	J
18.	UNKNOWN	31.82	160	J
19.	UNKNOWN	32.02	790	J
20.	UNKNOWN	32.12	260	J
21.	UNKNOWN	32.22	1100	J
22.	UNKNOWN	32.44	680	J
23.	UNKNOWN	32.66	600	J
24.	UNKNOWN	32.97	710	J
25.	UNKNOWN	36.01	2200	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

S301

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) WATER Lab Sample ID: D214511

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 03/12/92

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 03/13/92

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/15/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	UJ
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-36-3	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

S302

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) WATER Lab Sample ID: D214416

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 03/12/92

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 03/13/92

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/15/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	UJ
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-36-3	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

S303

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) WATER Lab Sample ID: D214417

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 03/12/92

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 03/13/92

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/15/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	UJ
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-36-3	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

S304

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) WATER Lab Sample ID: D214418

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 03/12/92

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 03/13/92

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/15/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 5.0 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	UJ
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-36-3	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S305

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) WATER Lab Sample ID: D214419

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N) ___ Date Received: 03/12/92

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 03/13/92

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/15/92

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 5.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.026	J
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	UJ
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-36-3	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

X103

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214504

Sample wt/vol: 30.3 (g/mL) G Lab File ID: _____

% Moisture: 33 decanted: (Y/N) N Date Received: 03/12/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/16/92

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/14/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	5.0	U
319-85-7	beta-BHC	5.0	U
319-86-8	delta-BHC	5.0	U
58-89-9	gamma-BHC (Lindane)	5.0	U
76-44-8	Heptachlor	5.0	U
309-00-2	Aldrin	5.0	U
1024-57-3	Heptachlor epoxide	2.0	JP
959-98-8	Endosulfan I	5.0	U
60-57-1	Dieldrin	9.8	U
72-55-9	4,4'-DDE	9.8	U
72-20-8	Endrin	3.7	JP
33213-65-9	Endosulfan II	9.8	U
72-54-8	4,4'-DDD	3.8	J
1031-07-8	Endosulfan sulfate	9.8	U
50-29-3	4,4'-DDT	9.8	U
72-43-5	Methoxychlor	50	U
53494-70-5	Endrin ketone	9.8	U
7421-36-3	Endrin aldehyde	9.8	U
5103-71-9	alpha-Chlordane	5.0	U
5103-74-2	gamma-Chlordane	5.0	U
8001-35-2	Toxaphene	500	U
12674-11-2	Aroclor-1016	98	U
11104-28-2	Aroclor-1221	200	U
11141-16-5	Aroclor-1232	98	U
53469-21-9	Aroclor-1242	98	U
12672-29-6	Aroclor-1248	98	U
11097-69-1	Aroclor-1254	98	U
11096-82-5	Aroclor-1260	98	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE I

X104

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214505

Sample wt/vol: 30.2 (g/mL) G Lab File ID: _____

% Moisture: 44 decanted: (Y/N) N Date Received: 03/12/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/16/92

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/14/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	0.57	JP
319-85-7	beta-BHC	6.0	U
319-86-8	delta-BHC	2.4	JP
58-89-9	gamma-BHC (Lindane)	6.0	U
76-44-8	Heptachlor	6.0	U
309-00-2	Aldrin	7.5	
1024-57-3	Heptachlor epoxide	6.0	U
959-98-8	Endosulfan I	6.0	U
60-57-1	Dieldrin	27	
72-55-9	4,4'-DDE	16	P
72-20-8	Endrin	6.8	JP
33213-65-9	Endosulfan II	2.0	JP
72-54-8	4,4'-DDD	12	U
1031-07-8	Endosulfan sulfate	12	U
50-29-3	4,4'-DDT	2.4	JP
72-43-5	Methoxychlor	60	U
53494-70-5	Endrin ketone	12	U
7421-36-3	Endrin aldehyde	12	U
5103-71-9	alpha-Chlordane	6.0	U
5103-74-2	gamma-Chlordane	13	P
8001-35-2	Toxaphene	600	U
12674-11-2	Aroclor-1016	120	U
11104-28-2	Aroclor-1221	240	U
11141-16-5	Aroclor-1232	120	U
53469-21-9	Aroclor-1242	120	U
12672-29-6	Aroclor-1248	120	U
11097-69-1	Aroclor-1254	120	U
11096-82-5	Aroclor-1260	120	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

X105

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214506

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 53 decanted: (Y/N) N Date Received: 03/12/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/16/92

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/14/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	3.1	JP
319-85-7	beta-BHC	8.8	P
319-86-8	delta-BHC	7.2	U
58-89-9	gamma-BHC (Lindane)	7.2	U
76-44-8	Heptachlor	7.2	U
309-00-2	Aldrin	2.5	JP
1024-57-3	Heptachlor epoxide	7.2	U
959-98-8	Endosulfan I	7.2	U
60-57-1	Dieldrin	9.9	JP
72-55-9	4,4'-DDE	6.4	JP
72-20-8	Endrin	14	UJ
33213-65-9	Endosulfan II	3.5	JP
72-54-8	4,4'-DDD	14	U
1031-07-8	Endosulfan sulfate	14	U
50-29-3	4,4'-DDT	14	U
72-43-5	Methoxychlor	72	U
53494-70-5	Endrin ketone	14	U
7421-36-3	Endrin aldehyde	14	U
5103-71-9	alpha-Chlordane	7.2	U
5103-74-2	gamma-Chlordane	4.8	JP
8001-35-2	Toxaphene	720	U
12674-11-2	Aroclor-1016	140	U
11104-28-2	Aroclor-1221	290	U
11141-16-5	Aroclor-1232	140	U
53469-21-9	Aroclor-1242	140	U
12672-29-6	Aroclor-1248	140	U
11097-69-1	Aroclor-1254	140	U
11096-82-5	Aroclor-1260	140	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214507

Sample wt/vol: 30.4 (g/mL) G Lab File ID: _____

% Moisture: 33 decanted: (Y/N) N Date Received: 03/12/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/16/92

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/15/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	5.0	U
319-85-7	beta-BHC	5.0	U
319-86-8	delta-BHC	5.0	U
58-89-9	gamma-BHC (Lindane)	4.6	JP
76-44-8	Heptachlor	5.0	U
309-00-2	Aldrin	1.8	JP
1024-57-3	Heptachlor epoxide	5.0	U
959-98-8	Endosulfan I	5.0	U
60-57-1	Dieldrin	5.6	JP
72-55-9	4,4'-DDE	9.7	U
72-20-8	Endrin	9.9	PJ
33213-65-9	Endosulfan II	9.7	U
72-54-8	4,4'-DDD	5.4	JP
1031-07-8	Endosulfan sulfate	9.7	U
50-29-3	4,4'-DDT	9.7	U
72-43-5	Methoxychlor	50	U
53494-70-5	Endrin ketone	9.7	U
7421-36-3	Endrin aldehyde	9.7	U
5103-71-9	alpha-Chlordane	4.6	JP
5103-74-2	gamma-Chlordane	5.0	U
8001-35-2	Toxaphene	500	U
12674-11-2	Aroclor-1016	97	U
11104-28-2	Aroclor-1221	200	U
11141-16-5	Aroclor-1232	97	U
53469-21-9	Aroclor-1242	97	U
12672-29-6	Aroclor-1248	97	U
11097-69-1	Aroclor-1254	92 ~~170~~	~~P~~ JP
11096-82-5	Aroclor-1260	97	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE I

X107

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214508

Sample wt/vol: 30.8 (g/mL) G Lab File ID: _____

% Moisture: 35 decanted: (Y/N) N Date Received: 03/12/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/16/92

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/15/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 5.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	6.2	P
319-85-7	beta-BHC	5.1	U
319-86-8	delta-BHC	5.1	U
58-89-9	gamma-BHC (Lindane)	5.1	U
76-44-8	Heptachlor	5.1	U
309-00-2	Aldrin	5.1	U
1024-57-3	Heptachlor epoxide	5.1	U
959-98-8	Endosulfan I	5.1	U
60-57-1	Dieldrin	1.7	JP
72-55-9	4,4'-DDE	9.9	U
72-20-8	Endrin	9.9	UJ
33213-65-9	Endosulfan II	9.9	U
72-54-8	4,4'-DDD	9.9	U
1031-07-8	Endosulfan sulfate	9.9	U
50-29-3	4,4'-DDT	9.9	U
72-43-5	Methoxychlor	51	U
53494-70-5	Endrin ketone	9.9	U
7421-36-3	Endrin aldehyde	9.9	U
5103-71-9	alpha-Chlordane	5.1	U
5103-74-2	gamma-Chlordane	5.1	U
8001-35-2	Toxaphene	510	U
12674-11-2	Aroclor-1016	99	U
11104-28-2	Aroclor-1221	200	U
11141-16-5	Aroclor-1232	99	U
53469-21-9	Aroclor-1242	99	U
12672-29-6	Aroclor-1248	99	U
11097-69-1	Aroclor-1254	52	J
11096-82-5	Aroclor-1260	99	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE No.

X108

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214509

Sample wt/vol: 30.6 (g/mL) G Lab File ID: _____

% Moisture: 54 decanted: (Y/N) N Date Received: 03/12/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/16/92

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/15/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	7.2	U
319-85-7	beta-BHC	7.2	U
319-86-8	delta-BHC	7.2	U
58-89-9	gamma-BHC (Lindane)	7.2	U
76-44-8	Heptachlor	7.2	U
309-00-2	Aldrin	7.2	U
1024-57-3	Heptachlor epoxide	1.1	JP
959-98-8	Endosulfan I	7.2	U
60-57-1	Dieldrin	18	P
72-55-9	4,4'-DDE	14	U
72-20-8	Endrin	5.8	JP
33213-65-9	Endosulfan II	14	U
72-54-8	4,4'-DDD	8.2	JP
1031-07-8	Endosulfan sulfate	14	U
50-29-3	4,4'-DDT	14	U
72-43-5	Methoxychlor	72	U
53494-70-5	Endrin ketone	14	U
7421-36-3	Endrin aldehyde	14	U
5103-71-9	alpha-Chlordane	4.5	J
5103-74-2	gamma-Chlordane	5.2	JP
8001-35-2	Toxaphene	720	U
12674-11-2	Aroclor-1016	140	U
11104-28-2	Aroclor-1221	290	U
11141-16-5	Aroclor-1232	140	U
53469-21-9	Aroclor-1242	140	U
12672-29-6	Aroclor-1248	140	U
11097-69-1	Aroclor-1254	57	JP
11096-82-5	Aroclor-1260	140	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

X109

Lab Name: ILLINOIS EPA Contract: 0110300003

Lab Code: SPFLD Case No.: MOBIL SAS No.: _____ SDG No.: 214416

Matrix: (soil/water) SOIL Lab Sample ID: D214510

Sample wt/vol: 30.4 (g/mL) G Lab File ID: _____

% Moisture: 8 decanted: (Y/N) N Date Received: 03/12/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/16/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/17/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.8	UJ
319-85-7	beta-BHC	1.8	UJ
319-86-8	delta-BHC	1.8	UJ
58-89-9	gamma-BHC (Lindane)	1.8	UJ
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	41	P
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.5	UJ
72-55-9	4,4'-DDE	4.9	PNJ
72-20-8	Endrin	3.5	UJ
33213-65-9	Endosulfan II	1.7	JP
72-54-8	4,4'-DDD	3.5	UJ
1031-07-8	Endosulfan sulfate	3.5	U
50-29-3	4,4'-DDT	3.5	UJ
72-43-5	Methoxychlor	18	UJ
53494-70-5	Endrin ketone	3.5	U
7421-36-3	Endrin aldehyde	3.5	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U
12674-11-2	Aroclor-1016	35	U
11104-28-2	Aroclor-1221	72	U
11141-16-5	Aroclor-1232	35	U
53469-21-9	Aroclor-1242	1300	
12672-29-6	Aroclor-1248	35	U
11097-69-1	Aroclor-1254	250	P
11096-82-5	Aroclor-1260	53	P

IEPA - CLP
CHAIN OF CUSTODY

Seal # 7265

Date Sealed: 3/9/92 By: Rich

Facility
Site: MOBIL CHEM.N.J.ZINC/DePUE
Region: ROCKFORD
County: BUREAU

Site Inventory #: 0110300003
Site Billing Code: SA06670
Project Manager: AL IRWIN/BRUCE FORD

Laboratory #	Sample #	Sample Date	Sample Time
22034410	[illegible]	3-11-92	5:05pm

Sample Appearance: Dark brown to black silt, loam

Additional Comments:

Name of Sampler: [illegible] Division/Unit: [illegible]

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
1		8oz		TOTAL METALS, CYANIDE,	N	3/92	
1		8		SULFIDE, SULFATE,			
1		8		MERCURY			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Name: [illegible] Signature: [illegible]

Date: [illegible] Time: 2:42pm Seal #: 7265 Initials: [illegible]

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Name: [illegible] Signature: [illegible]

Date: [illegible] Time: 1:40pm Seal #: 7266

Method of Shipment: Fed Express

Courier - Sample Delivery: Fed Ex

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): PAT Dixon Signature: Pat Dixon

Date: 3-13-92 Time: 10 am Seal #: 7266 Intact?: Y/N

Lab Name: EPA Chemnitzer Comments:

EPA [illegible]
[illegible] CUSTODY

Seal # 72105

Date Sealed: 3/9/92 By: RKM

Facility
Name: MOBIL CHEM. N.J. INC/DePUE
Region: ROCKFORD
County: BUREAU

Site Inventory #: [illegible]
Site Billing Code: [illegible]
Project Manager: [illegible] IRWIN/BRUCE FORD

Laboratory # [illegible]

Sample Appearance: [illegible]

CONTAINER	ANALYSIS	PRESERVING
No. Code: [illegible] Preser		
[illegible]	TOTAL METALS, CYANIDE, SULFIDE, SULFATE, MERCURY	

[illegible] worked the sample shipping container with the shipping container sealed and intact.

[illegible]

[illegible]

[illegible] sample [illegible] was [illegible] and placed in bottles in my presence, that each bottle was placed intact in the [illegible] [illegible] I [illegible] the sample shipping container [illegible] the date and time listed below.

[illegible]

Courier - Sample Delivery: [illegible]

certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): PAT DIXON Signature: Pat Dixon

Date: 3-13-92 Time: 10 am Seal #: T-60 Intact?: Y)/ N

Lab Name: [illegible] Comments:

Seal # E-TAPE

Date Sealed: 3/9/92 By: RICM

Site: MOBIL CHEM.N.J.ZINC/DePUE
Site: ROCKFORD
Bureau: BUREAU

Site Inventory # : 0110300003
Site Billing Code: SA06670
Project Manager : AL KIRWIN/BRUCE FORD

Laboratory #	Sample I.D.	Sample Date	Sample Time
[illegible]	SB X102	3-12-92	12:55pm

Sample Description: Dark Gray Silt

Comments:

Sampler: [illegible] Sampling Company: EPA/PRU

CONTAINER No.	Type	Size	Preser.	ANALYSIS	FILTERING (Y/N)	Date	Time
				TOTAL METALS,CYANIDE, SULFIDE,SULFATE, MERCURY	N	3-12-92	

CHAIN OF CUSTODY CHRONICLE

I relinquished the sample shipping container with the shipping container sealed and intact.

Relinquished by: [illegible] Signature: [illegible]

Date: [illegible] Time: 9:00 AM Seal #: E-Tape Intact? (Y) N

I received the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Received by: [illegible] Signature: [illegible]

Date: [illegible] Time: 1:40pm Seal #: 7266

Comments/Pickup: Fed Ex

Courier - Sample Delivery: Fed Ex

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): PAT DIXON Signature: Pat Dixon

Date: 3-13-92 Time: 10am Seal #: 7266 Intact?: (Y) / N

Lab Name: EPA Chemnyum Comments:

Seal # 7267

Date Sealed: 3/9/92 By: RICK

Name: NORTH CHEMICAL ZINC/DeRUE

Site Inventory #: [illegible]

Site Billing Code: [illegible]

Project Manager: [illegible] BRUCE FORD

Laboratory #			

CONTAINER	ANALYSIS	FILTERING
[illegible] Fraser		Y/N
	TOTAL CYANIDE, SULFIDE, SULFATE, MERCURY	~

[illegible] received the sample shipping container with the shipping container seal intact.

[illegible] the sample listed above was collected and [illegible] bottles in my presence. That each bottle was sealed intact in the [illegible] that I sealed the sample shipping container on the date and time listed below.

Seal # [illegible]

Courier - Sample Delivery: [illegible]

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): PAT DIXON Signature: Pat Dixon

Date: [illegible] Time: [illegible] Seal #: 7266 Intact: Y / N

Lab Name: [illegible] Comments:

EPA - CLP
HAIN OF CUSTODY

Seal # 7267

Date Sealed: 3/9/92 By: RKM

Facility
e : MOBIL CHEM.N.J.ZINC/DePUE
egion: ROCKFORD
ounty: BUREAU

Site Inventory # : 0110300003
Site Billing Code: SA06670
Project Manager : AL KIRWIN/BRUCE FORD

Laboratory #	Sample [illegible]	Sample Date	Sample Time
[illegible]	X105	3-[illegible]-92	2:00pm

Sample Appearance : [illegible]

Sampling Comments: [illegible]

Sampler Signature [illegible] Division Company [illegible]

CONTAINER				ANALYSIS	FILTERING	
No.	Code	Size	Preser		(Y/N)	Date Time
	17	8oz		TOTAL METALS,CYANIDE,	N	3-[illegible]-92
	18			SULFIDE,SULFATE,	N	
	19			MERCURY	N	

CHAIN OF CUSTODY CHRONICLE

Certify that I received the sample shipping container with the shipping container sealed and intact.

Name [illegible] Signature [illegible]

Date 3-[illegible]-92 Time: [illegible] Seal #: 7267 Intact? Y/N

Certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Name [illegible] Signature: [illegible]

Date 3-[illegible]-92 Time: 2:[illegible] Seal #: 7268

Number of sample shipments: [illegible]

Courier - Sample Delivery: Ned Ex.

Certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): PAT DIXON Signature: Pat Dixon

Date: 3-13-92 Time: 10:[illegible]am Seal #: 7268 Intact?: Y / N

Lab Name: [illegible] Comments: [illegible]

EPA - CLP
CHAIN OF CUSTODY

Seal # 7267

Date Sealed: 3/9/92 By: RKM

Facility
Name MOBIL CHEM N.I.ZINC/DePUE
Region ROCKFORD
County BUREAU

Site Inventory # : 0110300003
Site Billing Code: 5A0000
Project Manager : IRWIN/BRUCE FORD

Laboratory # 7267 28

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		Y/N	Date	Time
18		8oz		TOTAL METALS, CYANIDE, SULFIDE, SULFATE, MERCURY	N	3-9-92	
19							

I certify that I received the sample shipping container with the shipping container sealed and intact.

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container on the date and time specified below.

Courier - Sample Delivery: Fed Ex
I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): PAT DIXON Signature: Pat Dixon

Date: 3-13-92 Time: 10 am Seal #: 7268 Intact?: Y / N

Lab Name: EPA - Northington Comments:

F CUSTODY

Seal # 7267

Date Sealed: 3/9/92 By: RKM

MOBIL CHEM.N.J.ZINC/DePUE
RICHFORD
BUREAU

Site Inventory # : 0110300003
Site Billing Code: [illegible]
Project Manager : HL KIRWIN/BRUCE FORD

Laboratory #	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

Comments: [illegible]

Comments: [illegible]

[illegible] Company: [illegible]

CONTAINER			ANALYSIS	FILTERING		
Code	Size	Preser		(Y/N)	Date	Time
[illegible]			TOTAL METALS,CYANIDE,	N		
13			SULFIDE,SULFATE,			
19			MERCURY			

CHAIN OF CUSTODY CHRONICLE

[illegible] I sealed the sample shipping container with the shipping container sealed and intact.

[illegible] Signature [illegible]

[illegible] Time [illegible] Seal # [illegible]

[illegible] that the sample listed above was collected and placed in bottles in my presence. That each bottle was placed intact in the shipping container and that I sealed the sample shipping container at the date and time listed below.

[illegible]

[illegible]

[illegible]

Carrier - Sample Delivery: Yod Ex

[illegible]ry that I received the sample shipping container from the courier listed above with the shipping container and seal intact and [illegible]ch bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in [illegible]tody of competent laboratory personnel at all times or locked in a secured area.

[illegible]ed by (print): [illegible] Signature: [illegible]

3-13-92 Time: 10:00am Seal #: 7268 Intact?: (Y) / N

[illegible]me: [illegible] Comments: [illegible]

PA - CLP
AIN OF CUSTODY

Seal # 7267

Date Sealed: 3/4/92 By: [illegible]

acility
ame : MOBIL CHEM.N.J.ZINC/DePUE
egion: ROCKFORD
ounty: BUREAU

Site Inventory # : 0110300003
Site Billing Code: SA06670
Project Manager : AL KIRWIN/BRUCE FORD

Laboratory #	Sample I.D.	Sample Date	Sample Time
[illegible]	[illegible]	3-4-92	1115pm

mple Appearance [illegible]

mments: [illegible]

mpler Signature [illegible] Division/Company [illegible]

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
1		30z		TOTAL METALS,CYANIDE,	N	[illegible]	
	18			SULFIDE,SULFATE,	N		
	19			MERCURY	N		

CHAIN OF CUSTODY CHRONICLE

rtify that I received the sample shipping container with the shipping container sealed and intact.

[illegible] Signature: [illegible]

[illegible] Time [illegible] Seal # [illegible]

rtify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the ove shipping container and that I sealed the sample shipping container at the date and time listed below.

[illegible] [illegible]

[illegible] [illegible] Seal # [illegible]

[illegible]

urier - Sample Delivery: [illegible]

rtify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and t each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in e custody of competent laboratory personnel at all times or locked in a secured area.

pened by (print): PAT DIXON Signature: Pat Dixon

ate: 3-13-92 Time: 1000am Seal #: 7268 Intact?: Y / N

ab Name: CPA [illegible] Comments:

:EPA - CLP
:HAIN OF CUSTODY

Seal # 7267

Date Sealed: 3/9/92 By: RKM

:acility
e : MOBIL CHEM.N.J.ZINC/DePUE
:egion: ROCKFORD
:ounty: BUREAU

Site Inventory # : 0110300003
Site Billing Code: SA06670
Project Manager : AL KIRWIN/BRUCE FORD

Laboratory #	Sample I.D.	Sample Date	Sample Time
[redacted]	XIC 9	3-11-92	11:30A

ample -ppearance : Light brown sandy silt some gravel very silty sand clay also some gravel

:ollector :omments:

ampl[illegible] signature : [illegible] Division :ompany IEPA/PRU

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
	17	8oz		TOTAL METALS,CYANIDE,	N	[illegible]	
	18			SULFIDE,SULFATE,			
	19			MERCURY			

CHAIN OF CUSTODY CHRONICLE

certify that I received the sample shipping container with the shipping container sealed and intact.

[illegible] Signature: [illegible]

ate [illegible] Time: [illegible] Seal #: 7267 Intact: (Y) N

ertify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the ample shipping container and that I sealed the sample shipping container at the date and time listed below.

[illegible] Signature: [illegible]

ate [illegible] Time: [illegible] Seal # [illegible]

[illegible] ample Pickup: [illegible]

ourier - Sample Delivery: [illegible]

certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and hat each bottle in the shipping container was intact. After recording the sample in the offfeial record book, the sample will be in he custody of competent laboratory personnel at all times or locked in a secured area.

.ened by (print): Pat Dixon Signature: Pat Dixon

ate: 3-13-92 Time: 10:00 am Seal #: 7268 Intact?: (Y) / N

.ab Name: EPA-Champaign Comments:

EPA - CLP
CHAIN OF CUSTODY

Seal # : 7267

Date Sealed: 3/9/92 By: RKM

Facility
Name : MOBIL CHEM.N.J.ZINC/DePUE
Region: ROCKFORD
County: BUREAU

Site Inventory # : 0110300003
Site Billing Code: 5A0667D
Project Manager : AL KIRWIN/BRUCE FORD

Laboratory #			Sample Time
32432			0900Am

Sample Description

Comments

CONTAINER			ANALYSIS	FILTERING		
(No.)	Code	Size	Preser.	(Y/N)	Date	Time
			TOTAL METALS, CYANIDE, SULFIDE, SULFATE, MERCURY	N		

CHAIN OF CUSTODY RECORD

I certify that I received the sample shipping container with the shipping container sealed and intact.

Date: Time: Seal:

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Date: Time: Seal:

Sample Delivery:

Courier - Sample Delivery: Hand Dy

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Pat Dixon Signature: Pat Dixon

Date: 3-13-92 Time: 1000 am Seal #: 7267 Intact?: Y / N

Lab Name: EPA - Champaign Comments:

IEPA - CLP
CHAIN OF CUSTODY

Seal # 7267

Date Sealed: 3/9/92 By: RLCM

Facility
a : MOBIL CHEM.N.J.ZINC/DePUE
Region: ROCKFORD
County: BUREAU

Site Inventory # : 0110300003
Site Billing Code: SA06670
Project Manager : AL KIRWIN/BRUCE FORD

Laboratory #	Sample I.D.	Sample Date	Sample Time
[illegible]	XIII	[illegible]-92	10:55A

Sample Appearance : Dark Brown to black fine to coarse grained soil material

Sampling Comments:

Sampler Signature : [illegible] Division/Company IEPA/PZU

CONTAINER				ANALYSIS	FILTERING	
No.	Code	Size	Preser		(Y/N)	Date Time
1	17	3oz		TOTAL METALS,CYANIDE,	N	[illegible]/92
	18			SULFIDE,SULFATE,		
	19			MERCURY		

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Received by: [illegible] Signature: [illegible]

Date: [illegible]-92 Time: [illegible]55A Seal #: 7267 Intact? Y N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sampler Name: [illegible] Signature: [illegible]

Date: [illegible]/92 Time: 2:40 pm Seal #: 7268

Courier - Sample Pickup: [illegible] Express

Courier - Sample Delivery: Fed Ex

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): PAT DIXON Signature: Pat Dixon

Date: [illegible]-13-92 Time: 10 am Seal #: 7268 Intact?: Y / N

Lab Name: [illegible] Comments:

Date Received: 3/9/92 By: RKM

Name MOBIL CHEMICAL INC/PAGUE

Laboratory #

CONTAINER ANALYSIS

CYANIDE

SULFIDE/SULFATE

MERCURY

Courier - Sample Delivery:

Certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Pat Dixon Signature: Pat Dixon

Date: [illegible] Time: [illegible] Seal #: [illegible] Intact?: Y / N

Lab Name: [illegible] Comments:

IEPA - CLP
CHAIN OF CUSTODY

Seal # 7267

Date Sealed: 3/9/92 BY: RKM

Facility
Name : MOBIL CHEM.N.J.ZINC/DePUE
Region: ROCKFORD
County: BUREAU

Site Inventory # : 0110300003
Site Billing Code: SA06670
Project Manager : AL KIRWIN/BRUCE FORD

Laboratory #	Sample I.D.	Sample Date	Sample Time
[redacted]	X113	3-11-92	10:00 am

Sample Appearance : Fine grained black material

Collector Comments:

Sampler Signature : [signature] Division/Company IEPA/PRU

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
1	17	8oz		TOTAL METALS,CYANIDE,	N	3-11-92	
	18			SULFIDE,SULFATE,			
	19			MERCURY			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Name: [illegible] Signature: [signature]

Date: 3-11-92 Time: 1130A Seal #: 7267 Intact: Y N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Name: [illegible] Signature: [signature]

Date: 3-11-92 Time: [illegible] Seal #: [illegible]

Method - Sample Pickup: Fed Ex

Courier - Sample Delivery: Fed Ex.

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): PAT DIXON Signature: Pat Dixon

Date: 3-12-92 Time: 10 am Seal #: 7268 Intact?: Y N

Lab Name: [illegible] Comments:

EPA - CLP
CHAIN OF CUSTODY

Seal # 7267

Date Sealed: 3/9/92 By: RICM

Facility
Name MOBIL CHEM.N.J.ZINC/DePUE
Region: ROCKFORD
County: BUREAU

Site Inventory # : 0110300003
Site Billing Code: 3A06670
Project Manager HL KIRWIN/BRUCE FORD

Laboratory #	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

Time of Clearance: [illegible]

Comments: [illegible]

Name of Courier: [illegible] Courier Company: [illegible]

CONTAINER			ANALYSIS	FILTERING		
No.	Size	Type	Preser	(Y/N)	Date	Time
[illegible]	[illegible]	[illegible]	TOTAL METALS, CYANIDE,	N	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	SULFIDE, SULFATE,			
[illegible]	[illegible]	[illegible]	MERCURY			

CHAIN OF CUSTODY RECORD

I certify that I received the sample shipping container with the shipping container sealed and intact.

[illegible]

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was labeled intact in the sample shipping container and that I sealed the sample shipping container at the date and time/listed below.

[illegible]

Courier - Sample Delivery: [illegible]

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): PAT DIXON Signature: [illegible]

Date: [illegible] Time: 10:00 am Seal #: 7269 Intact?: Y / N

Lab Name: [illegible] Comments: [illegible]

EPA - CLP
CHAIN OF CUSTODY

Seal # 7267

Date Sealed: 2/9/92 By: RKM

Facility
Name : MOBIL CHEM.N.J.ZINC/DePUE
Region: ROCKFORD
County: BUREAU

Site Inventory # : 0110300003
Site Billing Code: SA06670
Project Manager : AL KIRWIN/BRUCE FORD

Laboratory #	Sample I.D.	Sample Date	Sample Time
[illegible]	[illegible]	2-11-92	2:45A

Sample Appearance: [illegible]

Additional Comments:

Name of Sampler: [illegible] Division/Company: [illegible]

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
	17	8oz		TOTAL METALS,CYANIDE,	N	[illegible]	
	18			SULFIDE,SULFATE,			
	19			MERCURY			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Name (print): [illegible] Signature: [illegible]

Date: [illegible] Time: [illegible] Seal #: 7267 Intact: (Y) N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Name (print): [illegible] Signature: [illegible]

Date: [illegible] Time: 2:40P Seal # 7268

Name of Sample Pickup: [illegible]

Courier - Sample Delivery: Fed Ex

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): PAT DIXON Signature: Pat Dixon

Date: 2-13-92 Time: 10:00 am Seal #: 7268 Intact?: Y/N

Lab Name: EPA-Champaign Comments:

Seal # 267

Date Sealed: 3/9/92 By: RKM

Name MOBIL CHEM.N.J.INC.DePUE Site Inventory # : 0110000000

Project Manager IRWIN, BRUCE FORD

Laboratory #

CONTAINER			ANALYSIS	FILTERING
No.	Code	Size	Preserv	
			TOTAL METALS, CYANIDE, SULFIDE, SULFATE, MERCURY	

Courier - Sample Delivery:

certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): PAT DIXON Signature: PAT DIXON

Date: 3-13-92 Time: [illegible] Seal #: [illegible] Intact?: Y / N

Lab Name: EPA - Chemistry Comments:

EPA - CLP
CHAIN OF CUSTODY

Seal # 7267

Date Sealed: 3/9/92 By: RKM

Facility
Name : MOBIL CHEM.N.J.ZINC/DePUE
Region: ROCKFORD
County: BUREAU

Site Inventory # : 0110300003
Site Billing Code: SA06670
Project Manager : AL KIRWIN/BRUCE FORD

Laboratory #	Sample I.D.	Sample Date	Sample Time
[illegible]03439	X117	3-11-92	7:45A

Sample Appearance : Fine grained gray material some consolidated material

Collector Comments:

Sampler Signature : [illegible] Division/Company

CONTAINER				ANALYSIS	FILTERING	
No.	Code	Size	Preser		(Y/N)	Date Time
1	17	8oz		TOTAL METALS,CYANIDE,	N	3-11-92
	18			SULFIDE,SULFATE,		
	19			MERCURY		

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Name (print): [illegible] Signature: [illegible]

Date: 3-10-92 Time: 1:00A Seal #: 7267 Intact?: Y

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Name (print): [illegible] Signature: [illegible]

Date: 3-11-92 Time: 7:45a Seal # 7267

Name of Sample Courier: Fed Express

Courier - Sample Delivery: Fed Ex

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Pat Divin Signature: Pat Divin

Date: 3-13-92 Time: 10:00am Seal #: 7268 Intact?: Y/N

Lab Name: EPA Champaign Comments:

S - CLP
IN OF CUSTODY

Seal # 7267

Date Sealed: 3/9/92 By: RLCm

ility
me : MOBIL CHEM.N.J.ZINC/DePUE
tion: ROCKFORD
nty: BUREAU

Site Inventory # : 0110300003
Site Billing Code: SA06670
Project Manager : AL SIRWIN/BRUCE FORD

Laboratory #	Sample	Sample Date	Sample Time
[illegible]	[illegible]	[illegible]	[illegible]

mple Appearance [illegible] Brown Silt, clay

ecial Comments:

mpler Signature [illegible] Company EPA/PRC

CONTAINER				ANALYSIS	FILTERING	
No.	Code	Size	Preser		(Y/N)	Date / Time
1	17	8oz		TOTAL METALS,CYANIDE,	N	3-[illegible]-92
	18			SULFIDE,SULFATE,		
	19			MERCURY		

CHAIN OF CUSTODY CHRONICLE

certify that I received the sample shipping container with the shipping container sealed and intact.

Name of Sampler [illegible] Signature [illegible]

Date [illegible] Time: [illegible] Seal #: 7267 Intact? Y/N

certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the ample shipping container and that I sealed the sample shipping container at the date and time listed below.

Name of Sampler [illegible] Signature [illegible]

Date [illegible] Time: [illegible] Seal # 7268

Courier - Sample Pickup: [illegible]

ourier - Sample Delivery: Fed Ex

certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and hat each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in he custody of competent laboratory personnel at all times or locked in a secured area.

pened by (print): PAT DIXON Signature: Pat Dixon

ate: 3-13-92 Time: 10:00am Seal #: 7268 Intact?: Y/N

ab Name: EPA Champaign Comments:

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: MOBIL CHEM NJ ZINC/DEPUE

Lab Code: ——— Case No.: ——— SAS No.: ——— SDG No.: —65—

SOW No.: ILM01.0

EPA Sample No.	Lab Sample ID
X104	B203426
X105	B203427
X106	B203428
X107	B203429
X108	B203430
X109	B203431
X110	B203432
X111	B203433
X112	B203434
X113	B203435
X114	B203436
X114S	B203436S
X114D	B203436D
X115	B203437
X116	B203438
X117	B203439

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Were ICP interelement corrections applied? Yes ——

Were ICP background corrections applied? Yes ——

If yes, were raw data generated before application of background corrections? No ——

Comments: -1.0 ML OF 1:1 HCL ADDED TO MICROWAVE DIGESTION PROCEDURE TO IMPROVE ANTIMONY RECOVERY.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Roy Frazier Name: ROY FRAZIER

Date: 4/28/92 Title: LAB MGR

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: MOBIL CHEM NJ ZINC/DEPUE

Lab Code: ——— Case No.: ——— SAS No.: ——— SDG No.: —65—

SOW No.: ILM01.0

EPA Sample No.	Lab Sample ID
X118	B203440
X101	B203441
X102	B203442
X103	B203443

Were ICP interelement corrections applied? Yes ——

Were ICP background corrections applied? Yes ——

If yes, were raw data generated before application of background corrections? No ——

Comments: -1.0 ML OF 1:1 HCL ADDED TO MICROWAVE DIGESTION PROCEDURE TO IMPROVE ANTIMONY RECOVERY.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other that the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: ——— Name: ———

Date: ——— Title: ———

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE :
X104

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: MOBIL CHEM NJ ZINC/DEPU
Lab Code: Case No.: SAS No.: SDG No.: 6
Matrix (Soil): Lab Sample ID: B20342
Level (Low/Med): Date Received: 3/13,
% Solids: 56.4

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	32100			PM	
7440-36-0	Antimony	6.9	U	N <	PM	A
7440-38-2	Arsenic	16.7		S	PM	
7440-39-3	Barium	244			PM	
7440-41-7	Beryllium	1.4			PM	
7440-43-9	Cadmium	12.3			PM	
7440-70-2	Calcium	19700			PM	
7440-47-3	Chromium	77.9			PM	
7440-48-4	Cobalt	14.0			PM	
7440-50-8	Copper	73.1			PM	
7439-89-6	Iron	31900			PM	
7439-92-1	Lead	109		S	PM	
7439-95-4	Magnesium	12000			PM	
7439-96-5	Manganese	677			PM	
7439-97-6	Mercury	~~0.18~~ 0.51	U	N,*	AS	J
7440-02-2	Nickel	47.8			PM	
7440-09-7	Potassium	5450			PM	
7782-49-2	Selenium	1.6		+ ~~N~~ RS	PM	J
7440-22-4	Silver	0.82	U		PM	
7440-23-5	Sodium	538	B		PM	
7440-28-0	Thallium	0.49	U	N	PM	R
7440-62-2	Vanadium	57.9			PM	
7440-66-6	Zinc	2170			PM	
	Cyanide	1.5	U		AS	

Color Before: Gray Clarity Before: Opaque Texture: Fine
Color After: Yellow Clarity After: Clear Artifacts:
Comments:

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE
X105

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: MOBIL CHEM NJ ZINC/DEPU
Lab Code: Case No.: SAS No.: SDG No.: 6
Matrix (Soil): Lab Sample ID: B20342
Level (Low/Med): Date Received: 3/13,
% Solids: 48.9

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	28100			PM
7440-36-0	Antimony	12.2	U		PM J
7440-38-2	Arsenic	15.3		S	PM
7440-39-3	Barium	214			PM
7440-41-7	Beryllium	1.4	U		PM
7440-43-9	Cadmium	275			PM
7440-70-2	Calcium	15600			PM
7440-47-3	Chromium	49.0			PM
7440-48-4	Cobalt	51.1			PM
7440-50-8	Copper	4420			PM
7439-89-6	Iron	37100			PM
7439-92-1	Lead	128			PM
7439-95-4	Magnesium	9620			PM
7439-96-5	Manganese	1390			PM
7439-97-6	Mercury	~~0.37~~ 0.43		N,*	AS J
7440-02-2	Nickel	67.8			PM
7440-09-7	Potassium	5450			PM
7782-49-2	Selenium	2.5		+ N R	PM J
7440-22-4	Silver	2.2	B		PM
7440-23-5	Sodium	508	B		PM
7440-28-0	Thallium	0.63	U	E,N	PM R
7440-62-2	Vanadium	51.4			PM
7440-66-6	Zinc	64800			PM
	Cyanide	1.7	U		AS

Color Before: Gray Clarity Before: Opaque Texture: Fine
Color After: Yellow Clarity After: Clear Artifacts:
Comments:

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE
X106

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: MOBIL CHEM NJ ZINC/DEP
Lab Code: Case No.: SAS No.: SDG No.:
Matrix (Soil): Lab Sample ID: B2034
Level (Low/Med): Date Received: 3/1
% Solids: 81.8

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12700			PM
7440-36-0	Antimony	7.2			PM
7440-38-2	Arsenic	8.7			PM
7440-39-3	Barium	70.5			PM
7440-41-7	Beryllium	0.70			PM
7440-43-9	Cadmium	0.56	U		PM
7440-70-2	Calcium	46600			PM
7440-47-3	Chromium	21.0			PM
7440-48-4	Cobalt	10.1			PM
7440-50-8	Copper	18.9			PM
7439-89-6	Iron	19700			PM
7439-92-1	Lead	12.3			PM
7439-95-4	Magnesium	25700			PM
7439-96-5	Manganese	388			PM
7439-97-6	Mercury	0.03		N,*	AS
7440-02-2	Nickel	24.6			PM
7440-09-7	Potassium	3070			PM
7782-49-2	Selenium	0.56	B	W,N	PM
7440-22-4	Silver	0.56	U		PM
7440-23-5	Sodium	187	B		PM
7440-28-0	Thallium	0.58	B	N	PM
7440-62-2	Vanadium	26.9			PM
7440-66-6	Zinc	141			PM
	Cyanide	1.0	U		AS

Color Before: Brown Clarity Before: Opaque Texture: Fir
Color After: Colorless Clarity After: Clear Artifacts:
Comments:

FORM I - IN
SOIL

3/9

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE
X107

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: MOBIL CHEM NJ ZINC/DEPU
Lab Code: Case No.: SAS No.: SDG No.: 6
Matrix (Soil): Lab Sample ID: B20342
Level (Low/Med): Date Received: 3/13
% Solids: 66.4

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	855			PM	
7440-36-0	Antimony	6.5	U	UCB	PM	R
7440-38-2	Arsenic	0.31	U	W	PM	J
7440-39-3	Barium	22.9	B		PM	
7440-41-7	Beryllium	0.15	U		PM	
7440-43-9	Cadmium	0.77	U		PM	
7440-70-2	Calcium	125000			PM	
7440-47-3	Chromium	2.6			PM	
7440-48-4	Cobalt	0.46	U		PM	
7440-50-8	Copper	1.5	B		PM	
7439-89-6	Iron	706			PM	
7439-92-1	Lead	6.7		S	PM	
7439-95-4	Magnesium	40	B		PM	
7439-96-5	Manganese	3.6			PM	
7439-97-6	Mercury	0.04 0.12 CB		N,*	AS	J
7440-02-2	Nickel	2.0	U		PM	
7440-09-7	Potassium	100	U		PM	
7782-49-2	Selenium	0.15	U	E,N CB	PM	R
7440-22-4	Silver	0.81	B		PM	
7440-23-5	Sodium	258	B		PM	
7440-28-0	Thallium	0.46	U	CB W,N	PM	R
7440-62-2	Vanadium	2.4	B		PM	
7440-66-6	Zinc	6.9	U CB		PM	
	Cyanide	1.2	U		AS	

Color Before: White Clarity Before: Opaque Texture: Fine
Color After: Colorless Clarity After: Clear Artifacts:
Comments:

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SOIL

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U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE N

X108

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: MOBIL CHEM NJ ZINC/DEPUE
Lab Code: Case No.: SAS No.: SDG No.: 65
Matrix (Soil): Lab Sample ID: B20343C
Level (Low/Med): Date Received: 3/13/
% Solids: 35.6

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	12100			PM	
7440-36-0	Antimony	1.1	U	N*	PM	J
7440-38-2	Arsenic	19.5		S	PM	
7440-39-3	Barium	710			PM	
7440-41-7	Beryllium	0.85	B		PM	
7440-43-9	Cadmium	112			PM	
7440-70-2	Calcium	42900			PM	
7440-47-3	Chromium	24.2			PM	
7440-48-4	Cobalt	50.8			PM	
7440-50-8	Copper	3400			PM	
7439-89-6	Iron	32600			PM	
7439-92-1	Lead	354			PM	
7439-95-4	Magnesium	9450			PM	
7439-96-5	Manganese	2020			PM	
7439-97-6	Mercury	~~0.26~~ 0.169	UJ	N,*	AS	J
7440-02-2	Nickel	21.8			PM	
7440-09-7	Potassium	2250			PM	
7782-49-2	Selenium	0.84	B	N*	PM	
7440-22-4	Silver	2.5	B		PM	
7440-23-5	Sodium	889	B		PM	
7440-28-0	Thallium	0.81	U	W,N	PM	R
7440-62-2	Vanadium	27.9			PM	
7440-66-6	Zinc	22500			PM	
	Cyanide	2.3	U		AS	

Color Before: Brown Clarity Before: Opaque Texture: Fine
Color After: Yellow Clarity After: Clear Artifacts:
Comments:

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE
X109

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: MOBIL CHEM NJ ZINC/DEP
Lab Code: Case No.: SAS No.: SDG No.:
Matrix (Soil): Lab Sample ID: B2034
Level (Low/Med): Date Received: 3/1
% Solids: 91.0

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	5620			PM	
7440-36-0	Antimony	4.6	U		PM	R
7440-38-2	Arsenic	14.3			PM	
7440-39-3	Barium	56.9			PM	
7440-41-7	Beryllium	0.35	B		PM	
7440-43-9	Cadmium	20.6			PM	
7440-70-2	Calcium	81100			PM	
7440-47-3	Chromium	11.4			PM	
7440-48-4	Cobalt	5.6			PM	
7440-50-8	Copper	94.1			PM	
7439-89-6	Iron	14100			PM	
7439-92-1	Lead	155			PM	
7439-95-4	Magnesium	37100			PM	
7439-96-5	Manganese	444			PM	
7439-97-6	Mercury	~~0.10~~ 0.2[illegible]	U	N,*	AS	J
7440-02-2	Nickel	10.7			PM	
7440-09-7	Potassium	1460			PM	
7782-49-2	Selenium	0.11	U	W,~~N~~ B	PM	J
7440-22-4	Silver	1.9			PM	
7440-23-5	Sodium	161	B		PM	
7440-28-0	Thallium	0.33	U	W,N	PM	R
7440-62-2	Vanadium	14.6			PM	
7440-66-6	Zinc	4510			PM	
	Cyanide	0.92	U		AS	

Color Before: Brown Clarity Before: Opaque Texture: Fin
Color After: Yellow Clarity After: Clear Artifacts:
Comments:

FORM I - IN
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U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE :
X110

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: MOBIL CHEM NJ ZINC/DEPU
Lab Code: Case No.: SAS No.: SDG No.: 6
Matrix (Soil): Lab Sample ID: B20343
Level (Low/Med): Date Received: 3/13,
% Solids: 78.7

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9280			PM
7440-36-0	Antimony	4.9	U		PM
7440-38-2	Arsenic	268			PM
7440-39-3	Barium	3510			PM
7440-41-7	Beryllium	1.5			PM
7440-43-9	Cadmium	278			PM
7440-70-2	Calcium	4340			PM
7440-47-3	Chromium	20.9			PM
7440-48-4	Cobalt	30.5			PM
7440-50-8	Copper	1960			PM
7439-89-6	Iron	64700			PM
7439-92-1	Lead	17800			PM
7439-95-4	Magnesium	1590			PM
7439-96-5	Manganese	2830			PM
7439-97-6	Mercury	~~0.28~~ 2.77		N,*	AS
7440-02-2	Nickel	24.3			PM
7440-09-7	Potassium	982			PM
7782-49-2	Selenium	8.2		S,N	PM
7440-22-4	Silver	34.5			PM
7440-23-5	Sodium	360	~~B~~ U		PM
7440-28-0	Thallium	0.35	U	E,N	PM
7440-62-2	Vanadium	34.2			PM
7440-66-6	Zinc	65600			PM
	Cyanide	1.0	U		AS

Color Before: Black Clarity Before: Opaque Texture: Fine
Color After: Orange Clarity After: Clear Artifacts:
Comments:

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLI

X111

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: —MOBIL CHEM NJ ZINC/DEPU
Lab Code: ——— Case No.: ——— SAS No.: ——— SDG No.: —6
Matrix (Soil): ——— Lab Sample ID: —B20343
Level (Low/Med): ——— Date Received: 3/13
% Solids: -84.6-

Concentration Units (mg/kg dry weight): ———

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6130			PM
7440-36-0	Antimony	5.3	U		PM
7440-38-2	Arsenic	113			PM
7440-39-3	Barium	4860			PM
7440-41-7	Beryllium	1.4			PM
7440-43-9	Cadmium	55.0			PM
7440-70-2	Calcium	4820			PM
7440-47-3	Chromium	28.4			PM
7440-48-4	Cobalt	10.4			PM
7440-50-8	Copper	717			PM
7439-89-6	Iron	199000			PM
7439-92-1	Lead	33400			PM
7439-95-4	Magnesium	663			PM
7439-96-5	Manganese	1870			PM
7439-97-6	Mercury	~~0.18~~ 0.43	U	N,*	AS
7440-02-2	Nickel	13.9			PM
7440-09-7	Potassium	704			PM
7782-49-2	Selenium	2.1		E,N	PM
7440-22-4	Silver	26.9			PM
7440-23-5	Sodium	372	U		PM
7440-28-0	Thallium	0.38	U	E,N	PM
7440-62-2	Vanadium	30.9			PM
7440-66-6	Zinc	22900			PM
———	Cyanide	0.98	U		AS
———	———				
———	———				

Color Before: —Black—— Clarity Before: —Opaque——— Texture: -Fine
Color After: -Orange——— Clarity After: ——Clear—— Artifacts: ———
Comments: ———

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE
X112

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: MOBIL CHEM NJ ZINC/DEP
Lab Code: Case No.: SAS No.: SDG No.:
Matrix (Soil): Lab Sample ID: B2034
Level (Low/Med): Date Received: 3/1
% Solids: 55.3

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	23500			PM
7440-36-0	Antimony	7.8	U		PM
7440-38-2	Arsenic	144			PM
7440-39-3	Barium	111			PM
7440-41-7	Beryllium	1.1			PM
7440-43-9	Cadmium	365			PM
7440-70-2	Calcium	12000			PM
7440-47-3	Chromium	38.3			PM
7440-48-4	Cobalt	31.6			PM
7440-50-8	Copper	8070			PM
7439-89-6	Iron	126000			PM
7439-92-1	Lead	3040			PM
7439-95-4	Magnesium	829	B		PM
7439-96-5	Manganese	3140			PM
7439-97-6	Mercury	~~0.07~~ 5.77		N,*	AS
7440-02-2	Nickel	27.9			PM
7440-09-7	Potassium	320	B		PM
7782-49-2	Selenium	35.0		S,N	PM
7440-22-4	Silver	45.9			PM
7440-23-5	Sodium	849	~~B~~ U		PM
7440-28-0	Thallium	0.56	U	E,N	PM
7440-62-2	Vanadium	53.5			PM
7440-66-6	Zinc	105000			PM
	Cyanide	30.0			AS

Color Before: Black Clarity Before: Opaque Texture: Fi
Color After: Orange Clarity After: Clear Artifacts:
Comments:

FORM I - IN
SOIL

3/

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE
X113

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: MOBIL CHEM NJ ZINC/DEPU
Lab Code: Case No.: SAS No.: SDG No.: 6
Matrix (Soil): Lab Sample ID: B20343
Level (Low/Med): Date Received: 3/13
% Solids: 49.9

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	14500			PM	
7440-36-0	Antimony	8.4	U		PM	J
7440-38-2	Arsenic	164		S	FM	
7440-39-3	Barium	140			PM	
7440-41-7	Beryllium	1.0			PM	
7440-43-9	Cadmium	591			PM	
7440-70-2	Calcium	9580			PM	
7440-47-3	Chromium	34.9			PM	
7440-48-4	Cobalt	62.0			PM	
7440-50-8	Copper	6200			PM	
7439-89-6	Iron	103000			PM	
7439-92-1	Lead	7030			FM	
7439-95-4	Magnesium	1940			PM	
7439-96-5	Manganese	2820			PM	
7439-97-6	Mercury	0.05		N,*	AS	J
7440-02-2	Nickel	34.4			PM	
7440-09-7	Potassium	1500			PM	
7782-49-2	Selenium	13.3		S	FM	
7440-22-4	Silver	17.2			PM	
7440-23-5	Sodium	1130			PM	
7440-28-0	Thallium	0.60	U	E,N	FM	R
7440-62-2	Vanadium	47.3			PM	
7440-66-6	Zinc	148000			PM	
	Cyanide	14.4			AS	

Color Before: Black Clarity Before: Opaque Texture: Fine
Color After: Orange Clarity After: Clear Artifacts:
Comments:

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE I

X114

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: —MOBIL CHEM NJ ZINC/DEPUI
Lab Code: ——— Case No.: ——— SAS No.: ——— SDG No.: —65
Matrix (Soil): ——— Lab Sample ID: —B203436
Level (Low/Med): ——— Date Received: 3/13/
% Solids: -52.1-

Concentration Units (mg/kg dry weight): ———

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11100			PM
7440-36-0	Antimony	8.1	U	N CB	PM R
7440-38-2	Arsenic	236			PM
7440-39-3	Barium	291			PM
7440-41-7	Beryllium	0.74	B		PM
7440-43-9	Cadmium	105			PM
7440-70-2	Calcium	1760			PM
7440-47-3	Chromium	46.4			PM
7440-48-4	Cobalt	40.9			PM
7440-50-8	Copper	5900			PM
7439-89-6	Iron	126000			PM
7439-92-1	Lead	3656			PM
7439-95-4	Magnesium	923	B		PM
7439-96-5	Manganese	1560			PM
7439-97-6	Mercury	~~0.18~~ 3.48 CB	U	N,*	AS J
7440-02-2	Nickel	32.4			PM
7440-09-7	Potassium	273	B		PM
7782-49-2	Selenium	13.9		S,~~N~~	PM
7440-22-4	Silver	53.7			PM
7440-23-5	Sodium	252	~~B~~ UCB		PM
7440-28-0	Thallium	0.58	U	E,N	PM R
7440-62-2	Vanadium	54.3			PM
7440-66-6	Zinc	19300			PM
———	Cyanide	17.6			AS
———	———				
———	———				

Color Before: —Black—— Clarity Before: —Opaque——— Texture: -Fine
Color After: —Orange—— Clarity After: ——Clear—— Artifacts: ———
Comments: ———

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPL
X115

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: MOBIL CHEM NJ INC/DEP
Lab Code: ——— Case No.: ——— SAS No.: ——— SDG No.: —
Matrix (Soil): ——— Lab Sample ID: B2034
Level (Low/Med): ——— Date Received: 3/1
% Solids: 51.8

Concentration Units (mg/kg dry weight): ———

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11200			PM
7440-36-0	Antimony	8.1	U		PM
7440-38-2	Arsenic	5.1			PM
7440-39-3	Barium	121000			PM
7440-41-7	Beryllium	1.5			PM
7440-43-9	Cadmium	0.96	U		PM
7440-70-2	Calcium	10100			PM
7440-47-3	Chromium	25.9			PM
7440-48-4	Cobalt	0.58	U		PM
7440-50-8	Copper	262			PM
7439-89-6	Iron	22800			PM
7439-92-1	Lead	834			PM
7439-95-4	Magnesium	5840			PM
7439-96-5	Manganese	327			PM
7439-97-6	Mercury	0.08		N,*	AS
7440-02-2	Nickel	32.1			PM
7440-09-7	Potassium	3060			PM
7782-49-2	Selenium	0.66	B	W	PM
7440-22-4	Silver	3.60	U		PM
7440-23-5	Sodium	614	B		PM
7440-28-0	Thallium	0.55	U	N	PM
7440-62-2	Vanadium	101			PM
7440-66-6	Zinc	656			PM
———	Cyanide	1.6	U		AS
———	———				
———	———				

Color Before: Gray Clarity Before: Opaque Texture: Fin
Color After: Yellow Clarity After: Clear Artifacts: ———
Comments: ———

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE

X116

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: MOBIL CHEM NJ ZINC/DEPU
Lab Code: Case No.: SAS No.: SDG No.: 6
Matrix (Soil): Lab Sample ID: B20343
Level (Low/Med): Date Received: 3/13
% Solids: 78.8

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	6870			PM	
7440-36-0	Antimony	5.7	U	Vca	PM	J
7440-38-2	Arsenic	124			PM	
7440-39-3	Barium	993			PM	
7440-41-7	Beryllium	0.63	B		PM	
7440-43-9	Cadmium	81.9			PM	
7440-70-2	Calcium	5320			PM	
7440-47-3	Chromium	593			PM	
7440-48-4	Cobalt	26.9			PM	
7440-50-8	Copper	2040			PM	
7439-89-6	Iron	56000			PM	
7439-92-1	Lead	4400			PM	
7439-95-4	Magnesium	2530			PM	
7439-96-5	Manganese	1550			PM	
7439-97-6	Mercury	~~1.1~~ 4.39 CB		N,*	AS	J
7440-02-2	Nickel	411			PM	
7440-09-7	Potassium	1010			PM	
7782-49-2	Selenium	5.8		S,N	PM	
7440-22-4	Silver	21.3			PM	
7440-23-5	Sodium	263	B		PM	
7440-28-0	Thallium	0.41	U	W,N	PM	R
7440-62-2	Vanadium	26.8			PM	
7440-66-6	Zinc	22500			PM	
	Cyanide	1.0			AS	

Color Before: Black Clarity Before: Opaque Texture: Fin
Color After: Orange Clarity After: Clear Artifacts:
Comments:

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE
X117

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: MOBIL CHEM NJ ZINC/DEPU
Lab Code: Case No.: SAS No.: SDG No.: 6
Matrix (Soil): Lab Sample ID: B20343
Level (Low/Med): Date Received: 3/1?
% Solids: 50.7

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11200			PM
7440-36-0	Antimony	8.2	U		PM
7440-38-2	Arsenic	6.8		S	PM
7440-39-3	Barium	92400			PM
7440-41-7	Beryllium	1.5			PM
7440-43-9	Cadmium	0.70	U		PM
7440-70-2	Calcium	9740			PM
7440-47-3	Chromium	23.0			PM
7440-48-4	Cobalt	0.59	U		PM
7440-50-8	Copper	119			PM
7439-89-6	Iron	21600			PM
7439-92-1	Lead	872			PM
7439-95-4	Magnesium	5610			PM
7439-96-5	Manganese	300			PM
7439-97-6	Mercury	0.04		N,*	AS
7440-02-2	Nickel	21.6			PM
7440-09-7	Potassium	3460			PM
7782-49-2	Selenium	2.1		+,N	PM
7440-22-4	Silver	0.98	U		PM
7440-23-5	Sodium	514	B		PM
7440-28-0	Thallium	0.56	U	N	PM
7440-62-2	Vanadium	99.1			PM
7440-66-6	Zinc	327			PM
	Cyanide	1.6	U		AS

Color Before: Gray Clarity Before: Opaque Texture: Fine
Color After: Yellow Clarity After: Clear Artifacts:
Comments:

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE N

X118

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: MOBIL CHEM NJ ZINC/DEPUE
Lab Code: Case No.: SAS No.: SDG No.: 65
Matrix (Soil): Lab Sample ID: B20344C
Level (Low/Med): Date Received: 3/13/
% Solids: 58.3

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11900			PM
7440-36-0	Antimony	6.7	U	N,*	PM R
7440-38-2	Arsenic	9.3			PM
7440-39-3	Barium	436			PM
7440-41-7	Beryllium	0.72	B		PM
7440-43-9	Cadmium	24.0			PM
7440-70-2	Calcium	7160			PM
7440-47-3	Chromium	18.2			PM
7440-48-4	Cobalt	8.9			PM
7440-50-8	Copper	32.4			PM
7439-89-6	Iron	13900			PM
7439-92-1	Lead	157			PM
7439-95-4	Magnesium	2360			PM
7439-96-5	Manganese	1260			PM
7439-97-6	Mercury	~~0.04~~ 0.12	~~U~~ UG	N,*	AS J
7440-02-2	Nickel	15.5			PM
7440-09-7	Potassium	2050			PM
7782-49-2	Selenium	0.29	B	S,N	PM
7440-22-4	Silver	0.80	U		PM
7440-23-5	Sodium	148	~~B~~ U		PM
7440-28-0	Thallium	0.48	U	W,N	PM R
7440-62-2	Vanadium	31.7			PM
7440-66-6	Zinc	1740			PM
	Cyanide	1.4	U		AS

Color Before: Brown Clarity Before: Opaque Texture: Fine
Color After: Yellow Clarity After: Clear Artifacts:
Comments:

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPL

X101

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: MOBIL CHEM NJ ZINC/DEPU
Lab Code: Case No.: SAS No.: SDG No.: 6
Matrix (Soil): Lab Sample ID: B20344
Level (Low/Med): Date Received: 3/13
% Solids: 73.6

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	8750			PM	
7440-36-0	Antimony	6.6	B		PM	J
7440-38-2	Arsenic	4.5		S	PM	
7440-39-3	Barium	104			PM	
7440-41-7	Beryllium	0.56	B		PM	
7440-43-9	Cadmium	0.68	U		PM	
7440-70-2	Calcium	7020			PM	
7440-47-3	Chromium	14.2			PM	
7440-48-4	Cobalt	5.2	B		PM	
7440-50-8	Copper	13.7			PM	
7439-89-6	Iron	10600			PM	
7439-92-1	Lead	117			PM	
7439-95-4	Magnesium	3290			PM	
7439-96-5	Manganese	382			PM	
7439-97-6	Mercury	~~0.03~~ 0.08	U	N,*	AS	J
7440-02-2	Nickel	11.9			PM	
7440-09-7	Potassium	1900			PM	
7782-49-2	Selenium	0.37	B	N	PM	
7440-22-4	Silver	0.68	U		PM	
7440-23-5	Sodium	117	B		PM	
7440-28-0	Thallium	0.41	U	N	PM	R
7440-62-2	Vanadium	20.5			PM	
7440-66-6	Zinc	124			PM	
	Cyanide	1.1	U		AS	

Color Before: Black Clarity Before: Opaque Texture: Fin
Color After: Yellow Clarity After: Clear Artifacts:
Comments:

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE
X102

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: MOBIL CHEM NJ ZINC/DEP
Lab Code: Case No.: SAS No.: SDG No.:
Matrix (Soil): Lab Sample ID: B2034
Level (Low/Med): Date Received: 3/1
% Solids: 75.3

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	11000			PM	
7440-36-0	Antimony	5.1	U	NCS	PM	R
7440-38-2	Arsenic	6.0			PM	
7440-39-3	Barium	174			PM	
7440-41-7	Beryllium	0.74			PM	
7440-43-9	Cadmium	0.71			PM	
7440-70-2	Calcium	13400			PM	
7440-47-3	Chromium	19.2			PM	
7440-48-4	Cobalt	6.0	B		PM	
7440-50-8	Copper	23.6			PM	
7439-89-6	Iron	16100			PM	
7439-92-1	Lead	207			PM	
7439-95-4	Magnesium	6440			PM	
7439-96-5	Manganese	576			PM	
7439-97-6	Mercury	~~0.04~~ 0.10		N,*	AS	
7440-02-2	Nickel	15.6			PM	
7440-09-7	Potassium	2740			PM	
7782-49-2	Selenium	0.17	B	NCS	PM	
7440-22-4	Silver	0.60	U		PM	
7440-23-5	Sodium	140	B		PM	
7440-28-0	Thallium	0.36	U	W,N	PM	R
7440-62-2	Vanadium	25.5			PM	
7440-66-6	Zinc	296			PM	
	Cyanide	1.1	U		AS	

Color Before: Black Clarity Before: Opaque Texture: Fin
Color After: Yellow Clarity After: Clear Artifacts:
Comments:

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE
X103

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: MOBIL CHEM NJ ZINC/DEPU
Lab Code: ——— Case No.: ——— SAS No.: ——— SDG No.: 6
Matrix (Soil): ——— Lab Sample ID: B20344
Level (Low/Med): ——— Date Received: 3/13/
% Solids: 66.7

Concentration Units (mg/kg dry weight): ———

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	16900			PM
7440-36-0	Antimony	6.4	B	N,S	PM
7440-38-2	Arsenic	8.6		S	PM
7440-39-3	Barium	112			PM
7440-41-7	Beryllium	0.87			PM
7440-43-9	Cadmium	0.96			PM
7440-70-2	Calcium	19300			PM
7440-47-3	Chromium	31.7			PM
7440-48-4	Cobalt	8.12			PM
7440-50-8	Copper	19.7			PM
7439-89-6	Iron	19300			PM
7439-92-1	Lead	75.6			PM
7439-95-4	Magnesium	9610			PM
7439-96-5	Manganese	537			PM
7439-97-6	Mercury	~~0.01~~ 0.02	U	N,*	AS
7440-02-2	Nickel	26.8			PM
7440-09-7	Potassium	3270			PM
7782-49-2	Selenium	0.32	B	~~N~~	PM
7440-22-4	Silver	0.75	U		PM
7440-23-5	Sodium	245	B		PM
7440-28-0	Thallium	0.45	U	W,N	PM
7440-62-2	Vanadium	37.8			PM
7440-66-6	Zinc	173			PM
———	Cyanide	1.2	U		AS
———	———				
———	———				

Color Before: Brown Clarity Before: Opaque Texture: Fine
Color After: Colorless Clarity After: Clear Artifacts: ———
Comments: ———

FORM I - IN
SOIL

3/90

[illegible] OF CUSTODY

Seal # 7265

Date Sealed: 3/9/92 By: RKM

Name: MOBIL CHEM.N.J.ZINC/DePUE
Site: ROCKFORD
Bureau: BUREAU

Site Inventory # : 0110300003
Site Billing Code: SA06670
Project Manager : AL KIRWIN/BRUCE FORD

Laboratory #	Sample [illegible]	Sample Date	Sample Time
[illegible]	[illegible]	[illegible]	[illegible]

Appearance: [illegible] Dark Brown Loam

Comments:

Sampler: [illegible] Division/Company: IEPA/PRU

CONTAINER			ANALYSIS	FILTERING		
Type	Size	Preser		(Y/N)	Date	Time
[illegible]	[illegible]	[illegible]	TOTAL METALS, CYANIDE, SULFIDE, SULFATE, MERCURY	N	[illegible]	

CHAIN OF CUSTODY CHRONICLE

[illegible] sealed the sample shipping container with the shipping container sealed and intact.

Signature: [illegible]

Date: [illegible] Time: [illegible] Seal #: 7265 [illegible]

[illegible] that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the [illegible] container and that I sealed the sample shipping container at the date and time listed below.

Date: [illegible] Time: [illegible] Seal #: 7266 [illegible]

Name: [illegible]

Carrier - Sample Delivery: Fed Ex

Certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): PAT DIXON Signature: Pat Dixon

Date: 3-13-92 Time: 10:00 am Seal #: 7266 Intact?: Y N

Lab Name: [illegible] Comments:

IEPA - ILP
CHAIN OF CUSTODY

Seal # 7265

Date Sealed: 3/9/92 By: RKM

Facility
Name : MOBIL CHEM.N.J.INC/DePUE
Region: ROCKFORD
County : BUREAU

Site Inventory # : 0110000003
Site Billing Code: SA06670
Project Manager : AL KIRWIN/BRUCE FORD

Laboratory #	Sample Type	Sample Date	Sample Time
0345934	WCC	3-11-92	3:10pm

Sample Appearance : Grey - pale brown sand

Additional Comments :

Sampler Signature : [signature] Division/Company : IEPA/BOW

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser.		(Y/N)	Date	Time
1	J	8oz		TOTAL METALS,CYANIDE, SULFIDE,SULFATE, MERCURY	N	3-11-92	

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Name of Sampler: [illegible] Signature: [signature]

Date: 3-11-92 Time: 3:42pm Seal #: 7265 Temp: 0

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Name of Sampler: [illegible] Signature: [signature]

Date: [illegible]-92 Time: [illegible]pm Seal # [illegible]

Courier - Sample Delivery: Fed Ex

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Pat Dixon Signature: Pat Dixon

Date: 3-13-92 Time: 10:00am Seal #: 7266 Intact?: Y / N

Lab Name: EPA Champaign Comments:

IEPA - CLP
CHAIN OF CUSTODY

Seal # 7265

Date Sealed: 3/9/92 By: RKM

Facility
Name : MOBIL CHEM.N.J.ZINC/DePUE
Region: ROCKFORD
County: BUREAU

Site Inventory # : 0110300003
Site Billing Code: SA06670
Project Manager : AL KIRWIN/BRUCE FORD

Laboratory #	Name	Sample Date	Sample Time
03446	121	3-11-92	3:20 p

Sample Appearance : DARK BROWN SILT, LOAM

Shipment Comments:

Sample Signature : [illegible] Division/Company IEPA/PRU

CONTAINER No.	Code	Size	Preser	ANALYSIS	FILTERING (Y/N)	Date	Time
1		8oz		TOTAL METALS, CYANIDE, SULFIDE, SULFATE, MERCURY	N	3-11-92	
18							
19							

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Signature: [illegible]

Date: [illegible] Time: [illegible] Seal #: 7265 Intact: Y

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Signature: [illegible]

Date: [illegible] Time: [illegible] Seal #: 7266

Courier - Sample Delivery: Fed Ex

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Pat Dixon Signature: Pat Dixon

Date: 3-13-92 Time: 10:00 am Seal #: 7266 Intact?: Y / N

Lab Name: [illegible] Comments:

EPA [illegible]
HAIN [illegible]

Seal # 7265

Date Sealed: 3/9/92 By: RKM

Facility
Name MOBIL CHEM N.J. INC (DeRUE
Region ROCKFORD
County BUREAU

Site Inventory # [illegible]
Site Billing Code: [illegible]
Project Manager [illegible] ERWIN BRUCE FORD

Laboratory # [illegible]

Sample Reference [illegible]

Sampler [illegible]

CONTAINER				ANALYSIS	FILTERING	
NO	Code	Size	Preser		(Y/N)	Time
[illegible]	[illegible]	[illegible]	[illegible]	TOTAL METALS, CYANIDE, SULFIDE, SULFATE, MERCURY	N	[illegible]

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Signature [illegible] Company [illegible]

Date [illegible] Time [illegible] Seal # [illegible]

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was filled intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Signature [illegible] Company [illegible]

Date [illegible] Time [illegible] Seal # 7266

Courier [illegible]

Courier - Sample Delivery: [illegible]

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): PAT DIXON Signature: Pat Dixon

Date: [illegible] Time: [illegible] Seal #: 7266 Intact?: Y / N

Lab Name: [illegible] Comments:

- CLP
IN OF CUSTODY

Seal # 7265

Date Sealed: 3/9/92 By: RKM

ity
: MOBIL CHEM.N.J.ZINC/DePUE
on: ROCKFORD
nty: BUREAU

Site Inventory # : 0110300003
Site Billing Code: SA06670
Project Manager : AL KIRWIN/BRUCE FORD

Laboratory #	Sample I.D.	Sample Date	Sample Time
[illegible]	[illegible]	3-11-92	[illegible]

ple Appearance : Dark Brown Loam

Comments:

Signature : [illegible] Division/Company [illegible]

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
[illegible]	[illegible]	8oz		TOTAL METALS,CYANIDE,	N	3-11-92	
	18			SULFIDE,SULFATE,			
	19			MERCURY			

CHAIN OF CUSTODY CHRONICLE

fy that I received the sample shipping container with the shipping container sealed and intact.

Signature: [illegible]

Date: [illegible] Time: [illegible] Seal #: 7265 Intact: [illegible]

fy that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the shipping container and that I sealed the sample shipping container at the date and time listed below.

Signature: [illegible]

Date: 3-12-92 Time: [illegible] Seal #: 7266

Method of Sample Delivery: Fed Ex

ier - Sample Delivery: Fed Ex

fy that I received the sample shipping container from the courier listed above with the shipping container and seal intact and ch bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in ody of competent laboratory personnel at all times or locked in a secured area.

ed by (print): PAT DIXON Signature: Pat Dixon

: 3-13-92 Time: 10 am Seal #: 7266 Intact?: Y / N

Name: EPA Champaign Comments:

Seal # 7265

Date Sealed: 3/9/92 By: RLCM

Name: MOBIL CHEM CO INC DePUE

Laboratory #

Reference:

CONTAINER	ANALYSIS	FILTERED
Type Size Preser		Y N
	TOTAL METALS, CYANIDE, SULFIDE, SULFATE, MERCURY	Y

Courier - Sample Delivery: Sal Ex

certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and at each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in e custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Pat Dixon Signature: Pat Dixon

Date: [illegible] Time: 10:[illegible] Seal #: 7266 Intact?: Y / N

Lab Name: [illegible] Comments:

EPA - CLP
CHAIN OF CUSTODY

Seal # 7265

Date Sealed: 3/9/92 BY: RKM

Facility
Name : MOBIL CHEM.N.J.ZINC/DePUE
Region: ROCKFORD
County: BUREAU

Site Inventory # : 0110300003
Site Billing Code: SA06670
Project Manager : AL KIRWIN/BRUCE FORD

Laboratory #	Sample I.D.	Sample Date	Sample Time
00450	125	3-11-92	4:00pm

Sample Appearance : Dark brown to black silt, loam

Comments:

Name of Signature : [illegible] Collection Company [illegible]

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
	17	8oz		TOTAL METALS,CYANIDE,	N	3-11-92	
	19			SULFIDE,SULFATE,			
	19			MERCURY			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Name: [illegible] Signature: [illegible]

Date: 3-11-92 Time: 2:42pm Seal #: 7265 Intact: Y

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Name: [illegible] Signature: [illegible]

Date: 3-11-92 Time: 1:00pm Seal #: 7266

Courier - Sample Pickup: Federal Express

Courier - Sample Delivery: Fed Ex

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): PAT DIXON Signature: Pat Dixon

Date: [illegible] Time: 10am Seal #: 7266 Intact?: Y N

Lab Name: EPA Champaign Comments:

EPA [illegible]
CHAIN OF CUSTODY

Seal: 7205

Date Sealed: 3/9/92 By: [illegible]

Facility Name: MOBIL CHEMICAL CO. DEPUE
Address: ROCKFORD
City: BUREAU

Site Inventory #: [illegible]
Site Billing Code: [illegible]
Project Manager: [illegible]

Laboratory #: [illegible]

Appearance: [illegible]

Comments: [illegible]

CONTAINER		ANALYSIS	
No.	Code/Size/Preser		
[illegible]		TOTAL METALS, CYANIDE, SULFIDE, SULFATE, MERCURY	N

[illegible]

[illegible]

[illegible]

Courier - Sample Delivery: [illegible]

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Pat Dixon Signature: [illegible]

Date: [illegible] Time: [illegible] Seal #: 7266 Intact?: Y / N

Lab Name: [illegible] Comments:

EPA - CLP
CHAIN OF CUSTODY

Seal # 7265

Date Sealed: 3/9/92 By: RLCM

Facility:
Name : MOBIL CHEM.N.J.ZINC/DePUE
Region: ROCKFORD
County: BUREAU

Site Inventory # : 0110300003
Site Billing Code: SA06670
Project Manager : AL KIRWIN/BRUCE FORD

Laboratory #	Sample I.D.	Sample Date	Sample Time
92-03-451	X137	3-11-92	3:15pm

Sample Appearance : Dark Brown Silty Loam

Special Comments:

Sampler Signature : [signature] Division/Company FERA/PRU

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
	1	8oz		TOTAL METALS,CYANIDE,	N	3-11-92	
	2B			SULFIDE,SULFATE,			
	2P			MERCURY			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Name: [signature] Signature: [signature]

Date: 3-11-92 Time: 2:42pm Seal #: 7265 Intact?: Y / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Name: [signature] Signature: [signature]

Date: 3-11-92 Time: 1:40pm Seal #: 7266

Courier Sample Pickup: Fed Express

Courier - Sample Delivery: Fed Ex

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Pat Dixon Signature: Pat Dixon

Date: 3-13-92 Time: 10:00am Seal #: 7266 Intact?: (Y) / N

Lab Name: EPA Champaign Comments:

EPA CLP
CHAIN OF CUSTODY

Seal # 7265

Date Sealed: 3/9/92 By: RLCM

Facility
Name: MOBIL CHEMICAL/ZINC/DePUE
Location: ROCKFORD
County: BUREAU

Site Inventory #: 0110300003
Site Billing Code: SA06670
Project Manager: HAL KIRWIN/BRUCE FORD

Laboratory #	Date	Sample Date	Sample Time
92 05453	122	3-9-92	3:25 pm

Sample Appearance: Yellow Brown O. G. Sam

Comments:

Sampler: [illegible] Witness: [illegible]

CONTAINER			ANALYSIS	FILTERING	
No.	Code	Size	Preser.	(Y/N)	Date Time
[illegible]	[illegible]	1	TOTAL METALS, CYANIDE, SULFIDE, SULFATE, MERCURY	N	[illegible]

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Signature: [illegible] Witness: [illegible]

Date: [illegible] Time: [illegible] Seal #: 7265 Intact: Y

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Signature: [illegible] Witness: [illegible]

Date: [illegible] Time: [illegible] Seal #: 7266

Sample Filtered: [illegible]

Courier - Sample Delivery: Aero Ex

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Pat Dixon Signature: Pat Dixon

Date: 3-10-92 Time: 10 am Seal #: 7266 Intact?: (Y) / N

Lab Name: EPA Chemistry Comments:

EPA - CLP
CHAIN OF CUSTODY

Seal # 7265

Date Sealed: 3/9/92 By: [illegible]

Facility
Name : MOBIL CHEM.N.J.ZINC/DePUE
Region: ROCKFORD
County: BUREAU

Site Inventory # : 0110300003
Site Billing Code: SA06670
Project Manager : AL KIRWIN/BRUCE FORD

Laboratory #	Sample No.	Sample Date	Sample Time
[redacted]53	X129	3-12-92	8:40 ~~AM~~ PM

Sample Appearance : Dark Brown silty loam some pebbles

Collector Comments:

Sampler Signature : [illegible] Division/Company IEPA/PRU

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
1	17	8oz		TOTAL METALS,CYANIDE,	N	3-12-92	
	18			SULFIDE,SULFATE,			
	19			MERCURY			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Received by (print): Gregory W. Dunn Signature: [illegible]

Date: 3-11-92 Time: 2:42 pm Seal #: 7265 Intact?: Y / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Relinquished by (print): Gregory W. Dunn Signature: [illegible]

Date: 3-12-92 Time: 1:40 pm Seal # 7266

Method of Sample Shipment: Fed Express

Courier - Sample Delivery: Fed Ex

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Pat Dixon Signature: Pat Dixon

Date: 3-13-92 Time: 10:00 am Seal #: 7266 Intact?: Y / N

Lab Name: EPA Champaign Comments:

IEPA - CLP
CHAIN OF CUSTODY

Seal # 7265

Date Sealed: 3/9/92 By: RKM

Facility
Name : MOBIL CHEM.N.J.ZINC/DePUE
Region: ROCKFORD
County: BUREAU

Site Inventory # : 0110300003
Site Billing Code: SA06670
Project Manager : AL KIRWIN/BRUCE FORD

Laboratory #	Sample	Sample Date	Sample Time
[redacted]	1130	3-12-92	9:10AM

Sample Appearance : Dark Brown Silty Loam

Collector Comments:

Sampler Signature : [signature] Division/Group: IEPA/PRU

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
1	17	8oz		TOTAL METALS,CYANIDE,	N	3/12-92	
	18			SULFIDE,SULFATE,			
	19			MERCURY			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Person by Courier: Gregory W. Dunn Signature: [signature]

Date: 3-11-92 Time: 2:00pm Seal #: 7265 Intact: (Y) N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sampler or Courier: Gregory W. Dunn Signature: [signature]

Date: 3-12-92 Time: 1:40pm Seal #: 7266

Courier - Sample Pickup: Fed Express

Courier - Sample Delivery: Fed Ex

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Pat Dixon Signature: Pat Dixon

Date: 3-13-92 Time: 10:00am Seal #: 7266 Intact?: Y / N

Lab Name: EPA Champaign Comments:

A - CLP
CHAIN OF CUSTODY

Seal # 7265

Date Sealed: 3/9/92 By: RKM

Facility
: MOBIL CHEM.N.J.ZINC/DePUE
Location: ROCKFORD
County: BUREAU

Site Inventory # : 0110300003
Site Billing Code: SA06670
Project Manager : AL KIRWIN/BRUCE FORD

Laboratory #	Sample I.D.	Sample Date	Sample Time
03456	X131	3-12-92	7:25 AM

Site Appearance: dark brown Silt Loam

Sector Comments:

Sampler Signature: [signature] Division/Company: EPA/CLP

CONTAINER No.	Code	Size	Preser	ANALYSIS	FILTERING (Y/N)	Date	Time
		8oz		TOTAL METALS, CYANIDE, SULFIDE, SULFATE, MERCURY	N	3-12-92	

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Name: Gregory W. Dunn Signature: [signature]

Date: 3-12-92 Time: 2:42 pm Seal #: 7265 Intact?: Y / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the shipping container and that I sealed the sample shipping container at the date and time listed below.

Name: Gregory W. Dunn Signature: [signature]

Date: 3-12-92 Time: 7:40 pm Seal # 7266

Courier Name and Address: Fed. Express

Courier - Sample Delivery: Fed Ex

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in custody of competent laboratory personnel at all times or locked in a secured area.

Received by (print): PAT DIXON Signature: [signature]

Date: 3-13-92 Time: 10:00 am Seal #: 7266 Intact?: Y / N

Name: EPA Champaign Comments:

EPA - CLP
CHAIN OF CUSTODY

Seal # 7265

Date Sealed: 3/9/92 By: RKM

Facility
Name MOBIL CHEM N.J.ZINC/DePUE
Region BOSFORD
Country BUREAU

Site Inventory # : 0110300003
Site-Billing Code: SAC6670
Project Manager : HL IRWIN/BRUCE FORD

Laboratory #	Sample	Sampling Date	Sample Time
20457	MSR	[illegible]	9:40AM

Sample Appearance: [illegible]

Comments:

Sampled By: [illegible] Sampling Company: [illegible]

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser.		(Y/N)	Date	Time
[illegible]	[illegible]	[illegible]	[illegible]	TOTAL METALS, CYANIDE,	N	[illegible] 92	
[illegible]	[illegible]	[illegible]	[illegible]	SULFIDE, SULFATE,			
[illegible]	[illegible]	[illegible]	[illegible]	MERCURY			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Signature: [illegible] Signature: [illegible]

Date: [illegible] Time: [illegible] Seal #: 7265 Intact? Y N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Signature: [illegible] Signature: [illegible]

Date: [illegible] Time: [illegible] Seal #: 7266

Method of Shipment: Fed Express

Courier - Sample Delivery: Fed Ex

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Pat Dixon Signature: Pat Dixon

Date: 3-13-92 Time: 10:00 am Seal #: 7266 Intact?: Y N

Lab Name: EPA Lemont Comments:

PA - CLP
AIN OF CUSTODY

Seal # E.TAPE

Date Sealed: 3/9/92 By: RKM

cility
: MOBIL CHEM.N.J.ZINC/DePUE
ion: ROCKFORD
nty: BUREAU

Site Inventory # : 0110300003
Site Billing Code: SA06670
Project Manager : AL KIRWIN/BRUCE FORD

Laboratory #	Sample I.D.	Sample Date	Sample Time
0[redacted]	X133	3-12-92	7:50 AM

ple Appearance : Dark Brown to black Silt Loam

ector Comments:

ler Signature : [signature] Division/Company TRA / FRU

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
1	17	8oz		TOTAL METALS,CYANIDE,	N	3-12-92	
	18			SULFIDE,SULFATE,			
	19			MERCURY			

CHAIN OF CUSTODY CHRONICLE

tify that I received the sample shipping container with the shipping container sealed and intact.

Signature: [signature]

Date: 3-12-92 Time: 9:00 AM Seal #: E Tape Intact: (Y) N

tify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the shipping container and that I sealed the sample shipping container at the date and time listed below.

Signature: [signature]

Date: 3-12-92 Time: 9:40 AM Seal #: 7266

Company Group: TRA

rier - Sample Delivery: Fed Ex

tify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in custody of competent laboratory personnel at all times or locked in a secured area.

ed by (print): PAT DIXON Signature: Pat Dixon

e: 3-13-92 Time: 10:00 am Seal #: 7266 Intact?: (Y) / N

Name: [illegible] Comments:

IEPA - SLP
CHAIN OF CUSTODY

Seal # E TAPE

Date Sealed: 3/9/92 By: RKM

Facility
Name : MOBIL CHEM.N.J.INC/DePUE
Region: ROCKFORD
County: BUREAU

Site Inventory # : 0110300003
Site Billing Code: BA06670
Project Manager : AL KIRWIN/BRUCE FORD

Laboratory #	Time	Sample Date	Sample Time
G-03[illegible]58	1134	3-12-92	10:05AM

Sample Appearance : Dark Brown Sandy Silt, Loam

Additional Comments:

Sampler Signature : [illegible] Company: IEPA/FRU

CONTAINER				ANALYSIS	FILTERING	
No.	Code	Size	Preser		(Y/N)	Date Time
1	17	8oz		TOTAL METALS,CYANIDE,	N	3-12-92
	18			SULFIDE,SULFATE,		
	19			MERCURY		

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Name: Gregory W. Dow Signature: [illegible]

Date: 3-12-92 Time: 7:00am Seal #: E Tape Intact: (Y) N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Name: [illegible] Signature: [illegible]

Date: 3-12-92 Time: [illegible]am Seal #: 7266

Name of Courier: [illegible]

Courier - Sample Delivery: Fed Ex

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Pat Dixon Signature: Pat Dixon

Date: 3-13-92 Time: 10:00am Seal #: 7266 Intact?: (Y) / N

Lab Name: EPA Champaign Comments:

IEPA - CLP
CHAIN OF CUSTODY

Seal # E. TAPE

Date Sealed: 3/9/92 By: [illegible]

Facility
Name : MOBIL CHEM.N.J.ZINC/DePUE
Region: ROCKFORD
County: BUREAU

Site Inventory # : 0110300003
Site Billing Code: SA06670
Project Manager : AL KIRWIN/BRUCE FORD

Laboratory #	Sample I.D	Sample Date	Sample Time
[redacted]	X135	3-12-92	10:20am

Sample Appearance : Med. [illegible] to [illegible] black [illegible] silty clay loam

Collector Comments:

Sampler Signature : [illegible] Division/Company [illegible]/PRO

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
1	17	8oz		TOTAL METALS,CYANIDE,			
	18			SULFIDE,SULFATE,			
	19			MERCURY			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Received by (print): [illegible] Signature: [illegible]

Date: 3-12-92 Time: 9:00Am Seal #: E TAPE Intact: Y

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Collected by: [illegible] Signature: [illegible]

Date: 3-12-92 Time: 1:40pm Seal #: 7266

Method of Shipment: Fed Ex

Courier - Sample Delivery: Fed Ex

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): PAT DIXON Signature: Pat Dixon

Date: 3-13-92 Time: 10:00am Seal #: 7266 Intact?: Y / N

Lab Name: EPA Champaign Comments:

EPA - CLP
CHAIN OF CUSTODY

Seal # E TAPE

Date Sealed: 3/9/92 By: RKM

Facility
Name : MOBIL CHEM.N.J.ZINC/DePUE
Region: ROCKFORD
County: BUREAU

Site Inventory # : 0110300003
Site Billing Code: SA06670
Project Manager : AL KIRWIN/BRUCE FORD

Laboratory #	Sample Time	Sample Date	Sample Time
L03461	1130	3-12-92	10:33 AM

Sample Appearance : Blue to brown to dark brown sandy silt loam

Collection Comments:

Sampler Signature: [signature] Division/Company: JEGA / PRU

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
	17	8oz		TOTAL METALS, CYANIDE,	N	3-12-92	
	18			SULFIDE, SULFATE,			
	19			MERCURY			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Name of Courier: Gregory W. Dixon Signature: [signature]

Date: 3-12-92 Time: 9:00 AM Seal #: Tape Intact: (Y) N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Name of Sampler: Gregory W. Dixon Signature: [signature]

Date: 3-12-92 Time: 10:00 AM Seal #: 7266

Method of Sample Shipment: Fed Ex

Courier - Sample Delivery: Fed Ex

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Pat Dixon Signature: Pat Dixon

Date: 3-13-92 Time: 10:00 AM Seal #: 7266 Intact?: (Y) / N

Lab Name: EPA Champaign Comments:

EPA - CLP
CHAIN OF CUSTODY

Seal # E-TAPE

Date Sealed: 3/9/92 By: RKM

Facility
: MOBIL CHEM.N.J INC/DePUE
Region: ROCKFORD
County: BUREAU

Site Inventory # : 0110300003
Site Billing Code: SA06670
Project Manager : AL KIRWIN/BRUCE FORD

Laboratory	Sample I.D.	Sample Date	Sample Time
[redacted]	X137	3-2-92	11:00 am

Sample Appearance : Brown sandy clay loam some silt.

Collector Comments:

Sampler Signature : [signature] Division/Company FA/PRU

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
1	17	8oz		TOTAL METALS, CYANIDE,	N	3-12-92	
	18			SULFIDE, SULFATE,			
	19			MERCURY			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Delivery Person: [signature] Signature: [signature]

Date 3-12-92 Time: 9:00 am Seal #: E Tape Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sampler - Print : [signature] Signature: [signature]

Date 3-12-92 Time: 1:40 pm Seal # 7266

Courier - Sample Pickup: Fed Ex

Courier - Sample Delivery: Fed Ex

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Pat Dixon Signature: Pat Dixon

Date: 3-13-92 Time: 10 am Seal #: 7266 Intact?: (Y) / N

Lab Name: EPA Champaign Comments:

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: MOBIL CHEM NJ ZINC/DEPUE

Lab Code: ——— Case No.: ——— SAS No.: ——— SDG No.: —66—

MOW No.: ILM01.0

EPA Sample No.	Lab Sample ID
X119	B203444
X120	B203445
X121	B203446
X122	B203447
X123	B203448
X124	B203449
X125	B203450
X126	B203451
X127	B203452
X128	B203453
X129	B203454
X130	B203455
X131	B203456
X132	B203457
X132S	B203457S
X132D	B203457D

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Were ICP interelement corrections applied? Yes ——

Were ICP background corrections applied? Yes ——
If yes, were raw data generated before application of background corrections? No ——

Comments: ~1.0 ML OF 1:1 HCL ADDED TO MICROWAVE DIGESTION PROCEDURE TO IMPROVE ANTIMONY RECOVERY. LCS FOR ANTIMONY OUT OF CONTROL ANALYSIS NOT RERUN.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other that the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Roy Frazier Name: ROY FRAZIER
Date: 4/28/92 Title: LAB MGR

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: MOBIL CHEM NJ ZINC/DEPUE

Lab Code: ——— Case No.: ——— SAS No.: ——— SDG No.: —66—

SOW No.: ILM01.0

EPA Sample No.	Lab Sample ID
X130	B203458
X131	B203459
X135	B203460
X136	B203461
X137	B203462

Were ICP interelement corrections applied? Yes ——

Were ICP background corrections applied? Yes ——

If yes, were raw data generated before application of background corrections? No ——

Comments: -1.0 ML OF 1:1 HCL ADDED TO MICROWAVE DIGESTION PROCEDURE TO IMPROVE ANTIMONY RECOVERY.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other that the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: ——— Name: ———

Date: ——— Title: ———

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE :
X119

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: MOBIL CHEM NJ ZINC/DEP
Lab Code: Case No.: SAS No.: SDG No.: 6
Matrix (Soil): Lab Sample ID: B20344
Level (Low/Med): Date Received: 3/13
% Solids: 49.9

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	17600			PM
7440-36-0	Antimony	8.2	U	N	PM R
7440-38-2	Arsenic	27.2		S,N	PM J
7440-39-3	Barium	268			PM
7440-41-7	Beryllium	0.79	B		PM
7440-43-9	Cadmium	47.8		N	PM J
7440-70-2	Calcium	29300			PM
7440-47-3	Chromium	25.2			PM
7440-48-4	Cobalt	10.2			PM
7440-50-8	Copper	77.5		N	PM J
7439-89-6	Iron	23100			PM
7439-92-1	Lead	400			PM
7439-95-4	Magnesium	4310			PM
7439-96-5	Manganese	933			PM
7439-97-6	Mercury	~~0.16~~ 5.42 CB	U		AS
7440-02-2	Nickel	17.9		*	PM
7440-09-7	Potassium	3320			PM
7782-49-2	Selenium	1.3		W,N	PM J
7440-22-4	Silver	0.98	U		PM J
7440-23-5	Sodium	173	~~B~~ U		PM
7440-28-0	Thallium	0.59	U	N	PM J
7440-62-2	Vanadium	41.4			PM
7440-66-6	Zinc	2820			PM
	Cyanide	1.7	U		AS

Color Before: Bropwn Clarity Before: Opaque Texture: Fin
Color After: Yellow Clarity After: Clear Artifacts:
Comments:

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE
X120

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: —MOBIL CHEM NJ ZINC/DEPUE
Lab Code: ——— Case No.: ——— SAS No.: ——— SDG No.: —66
Matrix (Soil): ——— Lab Sample ID: —B203445
Level (Low/Med): ——— Date Received: 3/13/
% Solids: -70.3-

Concentration Units (mg/kg dry weight): ———

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	12900			PM	
7440-36-0	Antimony	5.4	U	N	PM	P
7440-38-2	Arsenic	27.1		S,N	PM	J
7440-39-3	Barium	996			PM	
7440-41-7	Beryllium	0.69			PM	
7440-43-9	Cadmium	52.0		N	PM	J
7440-70-2	Calcium	2220			PM	
7440-47-3	Chromium	19.9			PM	
7440-48-4	Cobalt	10.3			PM	
7440-50-8	Copper	115		N	PM	J
7439-89-6	Iron	19500			PM	
7439-92-1	Lead	512			PM	
7439-95-4	Magnesium	2350			PM	
7439-96-5	Manganese	975			PM	
7439-97-6	Mercury	~~0.11~~ 0.39	U		AS	
7440-02-2	Nickel	17.3		*	PM	
7440-09-7	Potassium	1930			PM	
7782-49-2	Selenium	1.2		S,~~N~~	PM	
7440-22-4	Silver	1.6			PM	J
7440-23-5	Sodium	110	U		PM	
7440-28-0	Thallium	0.39	U	W,N	PM	J
7440-62-2	Vanadium	30.4			PM	
7440-66-6	Zinc	3070			PM	
———	Cyanide	1.2	U		AS	
———	———					
———	———					

Color Before: —Brown— Clarity Before: —Opaque— Texture: -Fine-
Color After: —Yellow— Clarity After: —Clear— Artifacts: ———
Comments: ———

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE N(

X121

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: —MOBIL CHEM NJ ZINC/DEPUE-
Lab Code: ——— Case No.: ——— SAS No.: ——— SDG No.: —66-
Matrix (Soil): ——— Lab Sample ID: —B203446-
Level (Low/Med): ——— Date Received: 3/13/
% Solids: -76.8-

Concentration Units (mg/kg dry weight): ———

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	12500			PM	
7440-36-0	Antimony	5.2	U	N	PM	R
7440-38-2	Arsenic	11.2		S,N	PM	J
7440-39-3	Barium	295			PM	
7440-41-7	Beryllium	0.58	B		PM	
7440-43-9	Cadmium	4.6		N	PM	J
7440-70-2	Calcium	12300			PM	
7440-47-3	Chromium	18.5			PM	
7440-48-4	Cobalt	7.26			PM	
7440-50-8	Copper	17.7		N	PM	J
7439-89-6	Iron	14400			PM	
7439-92-1	Lead	35.9			PM	
7439-95-4	Magnesium	7280			PM	
7439-96-5	Manganese	738			PM	
7439-97-6	Mercury	~~0.03~~ 0.09 <CRDL	U B		AS	
7440-02-2	Nickel	14.7		*	PM	
7440-09-7	Potassium	2030			PM	
7782-49-2	Selenium	0.38	B	W,N,R	PM	J
7440-22-4	Silver	0.62	U		PM	J
7440-23-5	Sodium	121	U CB		PM	
7440-28-0	Thallium	0.38	U	N	PM	J
7440-62-2	Vanadium	32.3			PM	
7440-66-6	Zinc	467			PM	
———	Cyanide	1.1	U		AS	
———	———					
———	———					

Color Before: —Brown——— Clarity Before: —Opaque——— Texture: -Fine-
Color After: —Yellow——— Clarity After: ——Clear——— Artifacts: ———
Comments: ———

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE .

X122

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: MOBIL CHEM NJ ZINC/DEPU.

Lab Code: ——— Case No.: ——— SAS No.: ——— SDG No.: —

Matrix (Soil): ——— Lab Sample ID: B20344

Level (Low/Med): ——— Date Received: 3/13,

% Solids: 83.5

Concentration Units (mg/kg dry weight): ———

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	17000			PM	
7440-36-0	Antimony	5.2	U	N	PM	R
7440-38-2	Arsenic	18.6		S,N	PM	J
7440-39-3	Barium	204			PM	
7440-41-7	Beryllium	0.83			PM	
7440-43-9	Cadmium	13.2		N	PM	J
7440-70-2	Calcium	28400			PM	
7440-47-3	Chromium	24.0			PM	
7440-48-4	Cobalt	9.1			PM	
7440-50-8	Copper	32.8		N	PM	J
7439-89-6	Iron	20000			PM	
7439-92-1	Lead	51.4			PM	
7439-95-4	Magnesium	17600			PM	
7439-96-5	Manganese	1180			PM	
7439-97-6	Mercury	~~0.03~~ 0.09	U B		AS	
7440-02-2	Nickel	21.1		*	PM	
7440-09-7	Potassium	3880			PM	
7782-49-2	Selenium	0.56	B	W,N	PM	J
7440-22-4	Silver	0.62	U		PM	J
7440-23-5	Sodium	155	U B		PM	
7440-28-0	Thallium	0.38	U	W,N	PM	J
7440-62-2	Vanadium	39.6			PM	
7440-66-6	Zinc	1210			PM	
———	Cyanide	0.99	U		AS	
———	———					
———	———					

Color Before: Brown Clarity Before: Opaque Texture: Fin

Color After: Colorless Clarity After: Clear Artifacts: ———

Comments: ———

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE
X123

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: MOBIL CHEM NJ ZINC/DEPU
Lab Code: Case No.: SAS No.: SDG No.: 6
Matrix (Soil): Lab Sample ID: B20344
Level (Low/Med): Date Received: 3/13
% Solids: 67.8

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	16500			PM	
7440-36-0	Antimony	5.8	U	N	PM	P
7440-38-2	Arsenic	20.0		S,N	PM	J
7440-39-3	Barium	335			PM	
7440-41-7	Beryllium	0.86			PM	
7440-43-9	Cadmium	53.1		N	PM	J
7440-70-2	Calcium	5860			PM	
7440-47-3	Chromium	38.8			PM	
7440-48-4	Cobalt	9.2			PM	
7440-50-8	Copper	82.7		N	PM	J
7439-89-6	Iron	19800			PM	
7439-92-1	Lead	410			PM	
7439-95-4	Magnesium	2880			PM	
7439-96-5	Manganese	1110			PM	
7439-97-6	Mercury	~~0.11~~ 0.32	U		AS	
7440-02-2	Nickel	16.9		*	PM	
7440-09-7	Potassium	2860			PM	
7782-49-2	Selenium	1.3		S,N	PM	
7440-22-4	Silver	1.2			PM	J
7440-23-5	Sodium	191	U		PM	
7440-28-0	Thallium	0.41	U	N	PM	J
7440-62-2	Vanadium	36.7			PM	
7440-66-6	Zinc	2790			PM	
	Cyanide	1.2	U		AS	

Color Before: Black Clarity Before: Opaque Texture: Fin
Color After: Yellow Clarity After: Clear Artifacts:
Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLI
X124

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: —MOBIL CHEM NJ ZINC/DEPUI
Lab Code: ——— Case No.: ——— SAS No.: ——— SDG No.: —66
Matrix (Soil): ——— Lab Sample ID: —B20344S
Level (Low/Med): ——— Date Received: 3/13/
% Solids: -73.6-

Concentration Units (mg/kg dry weight): ———

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	8340			PM	
7440-36-0	Antimony	5.8	U	N	PM	P
7440-38-2	Arsenic	7.6		N	FM	J
7440-39-3	Barium	782			PM	
7440-41-7	Beryllium	0.52	B		PM	
7440-43-9	Cadmium	22.6		N	PM	J
7440-70-2	Calcium	4710			PM	
7440-47-3	Chromium	13.8			PM	
7440-48-4	Cobalt	4.9			PM	
7440-50-8	Copper	35.2		N	PM	J
7439-89-6	Iron	15000			PM	
7439-92-1	Lead	183			FM	
7439-95-4	Magnesium	1980			PM	
7439-96-5	Manganese	411			PM	
7439-97-6	Mercury	~~0.03~~ 0.08	U ~~B~~		AS	
7440-02-2	Nickel	11.9		*	PM	
7440-09-7	Potassium	1540			PM	
7782-49-2	Selenium	0.46		S, ~~N~~	FM	J
7440-22-4	Silver	0.70	U		PM	J
7440-23-5	Sodium	119	U ~~B~~		PM	
7440-28-0	Thallium	0.42	U	W,N	FM	J
7440-62-2	Vanadium	22.2			PM	
7440-66-6	Zinc	1820			PM	
———	Cyanide	1.1	U		AS	
———	———					
———	———					

Color Before: —Brown— Clarity Before: —Opaque— Texture: -Fine
Color After: —Yellow— Clarity After: —Clear— Artifacts: ———
Comments: ———

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE N

X125

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: —MOBIL CHEM NJ ZINC/DEPUI
Lab Code: ——— Case No.: ——— SAS No.: ——— SDG No.: —66
Matrix (Soil): ——— Lab Sample ID: —B20345C
Level (Low/Med): ——— Date Received: 3/13/
% Solids: -75.5-

Concentration Units (mg/kg dry weight): ———

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	11700			PM	
7440-36-0	Antimony	5.3	U	N	PM	P
7440-38-2	Arsenic	13.5		N	PM	J
7440-39-3	Barium	5130			PM	
7440-41-7	Beryllium	0.74			PM	
7440-43-9	Cadmium	97.3		N	PM	J
7440-70-2	Calcium	15800			PM	
7440-47-3	Chromium	19.5			PM	
7440-48-4	Cobalt	5.98	B		PM	
7440-50-8	Copper	82.7		N	PM	J
7439-89-6	Iron	19600			PM	
7439-92-1	Lead	729			PM	
7439-95-4	Magnesium	2790			PM	
7439-96-5	Manganese	110			PM	
7439-97-6	Mercury	~~0.05~~ 0.13	~~B~~ U		AS	
7440-02-2	Nickel	16.8		*	PM	
7440-09-7	Potassium	2080			PM	
7782-49-2	Selenium	1.1		W, N ~~D~~	PM	J
7440-22-4	Silver	1.37			PM	J
7440-23-5	Sodium	147	~~B~~ U	CP	PM	
7440-28-0	Thallium	0.38	U	N	PM	J
7440-62-2	Vanadium	29.6			PM	
7440-66-6	Zinc	6030			PM	
———	Cyanide	1.1	U		AS	
———	———					
———	———					

Color Before: —Black—— Clarity Before: —Opaque——— Texture: -Fine
Color After: —Yellow—— Clarity After: ——Clear—— Artifacts: ———
Comments: ———

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE
X126

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: MOBIL CHEM NJ INC/DEPU
Lab Code: Case No.: SAS No.: SDG No.: 6
Matrix (Soil): Lab Sample ID: B20345
Level (Low/Med): Date Received: 3/13
% Solids: 63.6

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	14500			PM	
7440-36-0	Antimony	7.0	U	N	PM	P
7440-38-2	Arsenic	12.0		S,N	PM	J
7440-39-3	Barium	2480			PM	
7440-41-7	Beryllium	0.84			PM	
7440-43-9	Cadmium	76.8		N		
7440-70-2	Calcium	6870			PM	
7440-47-3	Chromium	23.3			PM	
7440-48-4	Cobalt	8.2	B		PM	
7440-50-8	Copper	55.8		N	PM	J
7439-89-6	Iron	19900			PM	
7439-92-1	Lead	252			PM	
7439-95-4	Magnesium	3230			PM	
7439-96-5	Manganese	580			PM	
7439-97-6	Mercury	~~0.06~~ 5.14	~~U~~ B		AS	
7440-02-2	Nickel	18.6		*	PM	
7440-09-7	Potassium	3300			PM	
7782-49-2	Selenium	0.77		S,N	PM	J
7440-22-4	Silver	0.84	U		PM	J
7440-23-5	Sodium	161	U B		PM	
7440-28-0	Thallium	0.50	U	W,N	PM	J
7440-62-2	Vanadium	34.5			PM	
7440-66-6	Zinc	4060			PM	
	Cyanide	1.3	U		AS	

Color Before: Black Clarity Before: Opaque Texture: Fin
Color After: Yellow Clarity After: Clear Artifacts:
Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE :
X127

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: MOBIL CHEM NJ ZINC/DEPU
Lab Code: Case No.: SAS No.: SDG No.: 6
Matrix (Soil): Lab Sample ID: B20345
Level (Low/Med): Date Received: 3/13
% Solids: 77.1

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	11700			PM	
7440-36-0	Antimony	5.2	U	N	PM	P
7440-38-2	Arsenic	17.8		S,N	FM	
7440-39-3	Barium	736			PM	
7440-41-7	Beryllium	0.67			PM	
7440-43-9	Cadmium	18.8		N	PM	J
7440-70-2	Calcium	6590			PM	
7440-47-3	Chromium	19.0			PM	
7440-48-4	Cobalt	9.2			PM	
7440-50-8	Copper	31.9		N	PM	J
7439-89-6	Iron	20500			PM	
7439-92-1	Lead	150		S	FM	
7439-95-4	Magnesium	3820			PM	
7439-96-5	Manganese	664			PM	
7439-97-6	Mercury	~~0.04~~ 0.10	U		AS	
7440-02-2	Nickel	20.3		*	PM	
7440-09-7	Potassium	2500			PM	
7782-49-2	Selenium	0.44	B	~~N~~	FM	J
7440-22-4	Silver	0.62	U		PM	
7440-23-5	Sodium	109	U		PM	
7440-28-0	Thallium	0.38	U	W,N	FM	J
7440-62-2	Vanadium	29.5			PM	
7440-66-6	Zinc	1520			PM	
	Cyanide	1.1	U		AS	

Color Before: Black Clarity Before: Opaque Texture: Fin
Color After: Yellow Clarity After: Clear Artifacts:
Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPL.
X128

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: —MOBIL CHEM NJ ZINC/DEPU
Lab Code: ——— Case No.: ——— SAS No.: ——— SDG No.: —6
Matrix (Soil): ——— Lab Sample ID: —B20345
Level (Low/Med): ——— Date Received: 3/13
% Solids: -78.0-

Concentration Units (mg/kg dry weight): ———

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	20100			PM	
7440-36-0	Antimony	5.5	U	N	PM	R
7440-38-2	Arsenic	13.7		S,N	PM	J
7440-39-3	Barium	223			PM	
7440-41-7	Beryllium	0.77			PM	
7440-43-9	Cadmium	4.32		N	PM	J
7440-70-2	Calcium	4740			PM	
7440-47-3	Chromium	26			PM	
7440-48-4	Cobalt	8.25			PM	
7440-50-8	Copper	15.4		N	PM	J
7439-89-6	Iron	19300			PM	
7439-92-1	Lead	38.4		S	PM	
7439-95-4	Magnesium	5320			PM	
7439-96-5	Manganese	678			PM	
7439-97-6	Mercury	~~0.03~~ 0.03	U		AS	
7440-02-2	Nickel	16.9		*	PM	
7440-09-7	Potassium	2780			PM	
7782-49-2	Selenium	0.33	B	W,N	PM	J
7440-22-4	Silver	0.66	U		PM	J
7440-23-5	Sodium	116	U B		PM	
7440-28-0	Thallium	0.39	U	W,N	PM	J
7440-62-2	Vanadium	42.5			PM	
7440-66-6	Zinc	329			PM	
———	Cyanide	1.1	U		AS	
———	———					
———	———					

Color Before: —Brown— Clarity Before: —Opaque— Texture: -Fin
Color After: -Colorless— Clarity After: —Clear— Artifacts: ———
Comments: ———

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE
X129

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: MOBIL CHEM NJ ZINC/DEPU
Lab Code: Case No.: SAS No.: SDG No.: 6
Matrix (Soil): Lab Sample ID: B20345
Level (Low/Med): Date Received: 3/13
% Solids: 80.7

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10100			PM
7440-36-0	Antimony	5.2	U	N	PM
7440-38-2	Arsenic	21.4		S,N	FM
7440-39-3	Barium	3760			PM
7440-41-7	Beryllium	0.66			PM
7440-43-9	Cadmium	37.6		N	PM
7440-70-2	Calcium	2810			PM
7440-47-3	Chromium	17.3			PM
7440-48-4	Cobalt	7.88			PM
7440-50-8	Copper	37.1		N	PM
7439-89-6	Iron	20100			PM
7439-92-1	Lead	207			FM
7439-95-4	Magnesium	1920			PM
7439-96-5	Manganese	1040			PM
7439-97-6	Mercury	~~0.05~~ 0.12	U		AS
7440-02-2	Nickel	16.5		*	PM
7440-09-7	Potassium	870			PM
7782-49-2	Selenium	0.46		S,N	FM
7440-22-4	Silver	0.62	U		PM
7440-23-5	Sodium	92.5	U		PM
7440-28-0	Thallium	0.37	U	N	FM
7440-62-2	Vanadium	29.3			PM
7440-66-6	Zinc	2240			PM
	Cyanide	1.0	U		AS

Color Before: Brown Clarity Before: Opaque Texture: Fine
Color After: Yellow Clarity After: Clear Artifacts:
Comments:

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLI

X130

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: —MOBIL CHEM NJ ZINC/DEPUI
Lab Code: ——— Case No.: ——— SAS No.: ——— SDG No.: —6
Matrix (Soil): ——— Lab Sample ID: —B20345
Level (Low/Med): ——— Date Received: 3/13,
% Solids: -70.1-

Concentration Units (mg/kg dry weight): ———

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	11600			PM	
7440-36-0	Antimony	5.5	U	N	PM	P
7440-38-2	Arsenic	17.6		S,N	PM	J
7440-39-3	Barium	6300			PM	
7440-41-7	Beryllium	0.68			PM	
7440-43-9	Cadmium	90.2		N	PM	J
7440-70-2	Calcium	15100			PM	
7440-47-3	Chromium	17.3			PM	
7440-48-4	Cobalt	4.6	B		PM	
7440-50-8	Copper	65.5		N	PM	J
7439-89-6	Iron	15800			PM	
7439-92-1	Lead	565		S	PM	
7439-95-4	Magnesium	6040			PM	
7439-96-5	Manganese	604			PM	
7439-97-6	Mercury	~~0.04~~ 3.13	U B		AS	
7440-02-2	Nickel	12.5		*	PM	
7440-09-7	Potassium	2270			PM	
7782-49-2	Selenium	0.99		W,N	PM	J
7440-22-4	Silver	0.66	U		PM	J
7440-23-5	Sodium	128	U B		PM	
7440-28-0	Thallium	0.40	U	W,N	PM	J
7440-62-2	Vanadium	24.3			PM	
7440-66-6	Zinc	5290			PM	
———	Cyanide	1.2	U		AS	
———	———					
———	———					

Color Before: —Black—— Clarity Before: —Opaque——— Texture: -Fin
Color After: —Yellow—— Clarity After: —Clear—— Artifacts: ———
Comments: ———

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE N

X131

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: MOBIL CHEM NJ ZINC/DEPUE
Lab Code: Case No.: SAS No.: SDG No.: 66
Matrix (Soil): Lab Sample ID: B203456
Level (Low/Med): Date Received: 3/13/
% Solids: 73.0

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	9360			PM	
7440-36-0	Antimony	5.5	U	N	PM	R
7440-38-2	Arsenic	32.4		S,N	PM	J
7440-39-3	Barium	8710			PM	
7440-41-7	Beryllium	0.59	B		PM	
7440-43-9	Cadmium	73.6		N	PM	J
7440-70-2	Calcium	7360			PM	
7440-47-3	Chromium	16.2			PM	
7440-48-4	Cobalt	2.96	B		PM	
7440-50-8	Copper	61.7		N	PM	J
7439-89-6	Iron	14900			PM	
7439-92-1	Lead	542			PM	
7439-95-4	Magnesium	4090			PM	
7439-96-5	Manganese	532			PM	
7439-97-6	Mercury	~~0.04~~ 7.12 CS	~~B~~ U		AS	
7440-02-2	Nickel	11.8		*	PM	
7440-09-7	Potassium	1920			PM	
7782-49-2	Selenium	1.1		~~N~~	PM	
7440-22-4	Silver	0.66	U		PM	J
7440-23-5	Sodium	105	~~B~~ U CS		PM	
7440-28-0	Thallium	0.40	U	W,N	PM	J
7440-62-2	Vanadium	23.8			PM	
7440-66-6	Zinc	3780			PM	
	Cyanide	1.1	U		AS	

Color Before: Brown Clarity Before: Opaque Texture:
Color After: Yellow Clarity After: Clear Artifacts:
Comments:

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE
X132

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: —MOBIL CHEM NJ ZINC/DEPU
Lab Code: ——— Case No.: ——— SAS No.: ——— SDG No.: —6
Matrix (Soil): ——— Lab Sample ID: —B20345
Level (Low/Med): ——— Date Received: 3/13
% Solids: -84.3-

Concentration Units (mg/kg dry weight): ———

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	9340			PM	
7440-36-0	Antimony	5.0	U	N	PM	
7440-38-2	Arsenic	15.8		S,N	PM	
7440-39-3	Barium	2050			PM	
7440-41-7	Beryllium	0.66			PM	
7440-43-9	Cadmium	16.2		N	PM	
7440-70-2	Calcium	12600			PM	
7440-47-3	Chromium	15.8			PM	
7440-48-4	Cobalt	5.2	B		PM	
7440-50-8	Copper	30.4		N	PM	J
7439-89-6	Iron	16500			PM	
7439-92-1	Lead	126			PM	
7439-95-4	Magnesium	7140			PM	
7439-96-5	Manganese	454			PM	
7439-97-6	Mercury	~~0.04~~ 0.10	B		AS	
7440-02-2	Nickel	15.7		*	PM	
7440-09-7	Potassium	1950			PM	
7782-49-2	Selenium	0.17	B	W,N	PM	J
7440-22-4	Silver	0.60	U		PM	J
7440-23-5	Sodium	127	~~B~~ U		PM	
7440-28-0	Thallium	0.36	U	N	PM	J
7440-62-2	Vanadium	22.7			PM	
7440-66-6	Zinc	1490			PM	
———	Cyanide	0.99	U		AS	
———	———					
———	———					

Color Before: —Black— Clarity Before: —Opaque— Texture: ———
Color After: —Yellow— Clarity After: —Clear— Artifacts: ———
Comments: ———

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE

X133

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: —MOBIL CHEM NJ ZINC/DEPU
Lab Code: ——— Case No.: ——— SAS No.: ——— SDG No.: —6
Matrix (Soil): ——— Lab Sample ID: —B20345
Level (Low/Med): ——— Date Received: 3/13
% Solids: -72.3-

Concentration Units (mg/kg dry weight): ———

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	10700			PM	
7440-36-0	Antimony	5.5	U	N	PM	
7440-38-2	Arsenic	10.7		N	PM	
7440-39-3	Barium	5560			PM	
7440-41-7	Beryllium	0.83			PM	
7440-43-9	Cadmium	61.2		N	PM	
7440-70-2	Calcium	12100			PM	
7440-47-3	Chromium	20.6			PM	
7440-48-4	Cobalt	5.6	B		PM	
7440-50-8	Copper	110		N	PM	
7439-89-6	Iron	17700			PM	
7439-92-1	Lead	371			PM	
7439-95-4	Magnesium	5870			PM	
7439-96-5	Manganese	523			PM	
7439-97-6	Mercury	~~0.11~~ 0.39	U		AS	
7440-02-2	Nickel	17.4		*	PM	
7440-09-7	Potassium	2680			PM	
7782-49-2	Selenium	0.92		W, ~~N~~	PM	J
7440-22-4	Silver	1.3			PM	J
7440-23-5	Sodium	178	U		PM	
7440-28-0	Thallium	0.39	U	N	PM	J
7440-62-2	Vanadium	25.7			PM	
7440-66-6	Zinc	4240			PM	
———	Cyanide	1.1	U		AS	
———	———					
———	———					

Color Before: —Black— Clarity Before: —Opaque— Texture: ———
Color After: —Yellow— Clarity After: —Clear— Artifacts: ———
Comments: ———

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE
X134

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: MOBIL CHEM NJ ZINC/DEPU
Lab Code: Case No.: SAS No.: SDG No.:
Matrix (Soil): Lab Sample ID: B2034
Level (Low/Med): Date Received: 3/1
% Solids: 83.5

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6470			PM
7440-36-0	Antimony	4.9	U	N	PM
7440-38-2	Arsenic	13.7		N	PM
7440-39-3	Barium	6080			PM
7440-41-7	Beryllium	0.64			PM
7440-43-9	Cadmium	80.6		N	PM
7440-70-2	Calcium	13200			PM
7440-47-3	Chromium	13.5			PM
7440-48-4	Cobalt	2.8	B		PM
7440-50-8	Copper	64.2		N	PM
7439-89-6	Iron	12400			PM
7439-92-1	Lead	432			PM
7439-95-4	Magnesium	6550			PM
7439-96-5	Manganese	480			PM
7439-97-6	Mercury	~~0.03~~ 3.29	B		AS
7440-02-2	Nickel	11.9		*	PM
7440-09-7	Potassium	1320			PM
7782-49-2	Selenium	0.82		W,N	PM
7440-22-4	Silver	0.65	B		PM
7440-23-5	Sodium	121	U		PM
7440-28-0	Thallium	0.35	U	W,N	PM
7440-62-2	Vanadium	18.6			PM
7440-66-6	Zinc	5190			PM
	Cyanide	0.99	U		AS

Color Before: Brown Clarity Before: Opaque Texture: Fi
Color After: Yellow Clarity After: Clear Artifacts:
Comments:

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE N

X135

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: MOBIL CHEM NJ ZINC/DEPU
Lab Code: Case No.: SAS No.: SDG No.: 66
Matrix (Soil): Lab Sample ID: B203460
Level (Low/Med): Date Received: 3/13/
% Solids: 68.6

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	15300			PM	
7440-36-0	Antimony	6.0	U	N	PM	LP
7440-38-2	Arsenic	16.9		S,N	PM	J
7440-39-3	Barium	2250			PM	
7440-41-7	Beryllium	0.73			PM	
7440-43-9	Cadmium	98.1		N	PM	J
7440-70-2	Calcium	28500			PM	
7440-47-3	Chromium	25.4			PM	
7440-48-4	Cobalt	7.1	B		PM	
7440-50-8	Copper	163		N	PM	J
7439-89-6	Iron	17100			PM	
7439-92-1	Lead	393			PM	
7439-95-4	Magnesium	2600			PM	
7439-96-5	Manganese	518			PM	
7439-97-6	Mercury	~~0.04~~ 0.11<3	B		AS	
7440-02-2	Nickel	17.8		*	PM	
7440-09-7	Potassium	2820			PM	
7782-49-2	Selenium	1.0		W,~~N~~ CR	PM	J
7440-22-4	Silver	1.2	B		PM	J
7440-23-5	Sodium	195	~~B~~ U CR		PM	
7440-28-0	Thallium	0.43	U	W,N	PM	J
7440-62-2	Vanadium	35.8			PM	
7440-66-6	Zinc	6580			PM	
	Cyanide	1.2	U		AS	

Color Before: Brown Clarity Before: Opaque Texture: Fine
Color After: Yellow Clarity After: Clear Artifacts:
Comments:

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE

X136

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: MOBIL CHEM NJ ZINC/DEPU
Lab Code: Case No.: SAS No.: SDG No.: 6
Matrix (Soil): Lab Sample ID: B20346
Level (Low/Med): Date Received: 3/13
% Solids: 63.9

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	12300			PM	
7440-36-0	Antimony	6.7	U	N	PM	P
7440-38-2	Arsenic	12.1		S,N	PM	J
7440-39-3	Barium	3330			PM	
7440-41-7	Beryllium	0.52	B		PM	
7440-43-9	Cadmium	85.7		N	PM	J
7440-70-2	Calcium	12200			PM	
7440-47-3	Chromium	20.6			PM	
7440-48-4	Cobalt	5.9	B		PM	
7440-50-8	Copper	81.2		N	PM	J
7439-89-6	Iron	14500			PM	
7439-92-1	Lead	440		S	PM	
7439-95-4	Magnesium	3190			PM	
7439-96-5	Manganese	466			PM	
7439-97-6	Mercury	~~0.05~~ 3/13	~~U~~ B		AS	
7440-02-2	Nickel	12.7		*	PM	
7440-09-7	Potassium	2030			PM	
7782-49-2	Selenium	1.4		W,N	PM	J
7440-22-4	Silver	1.2	B		PM	J
7440-23-5	Sodium	143	U B		PM	
7440-28-0	Thallium	0.48	U	W,N	PM	J
7440-62-2	Vanadium	29.5			PM	
7440-66-6	Zinc	5640			PM	
	Cyanide	1.3	U		AS	

Color Before: Brown Clarity Before: Opaque Texture: Fine
Color After: Yellow Clarity After: Clear Artifacts:
Comments:

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE I

X137

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: —MOBIL CHEM NJ ZINC/DEPUI
Lab Code: ——— Case No.: ——— SAS No.: ——— SDG No.: —6(
Matrix (Soil): ——— Lab Sample ID: —B20346:
Level (Low/Med): ——— Date Received: 3/13,
% Solids: -83.2-

Concentration Units (mg/kg dry weight): ———

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8440			PM
7440-36-0	Antimony	5.5	U	N	PM
7440-38-2	Arsenic	4.7		N	FM
7440-39-3	Barium	88.2			PM
7440-41-7	Beryllium	0.44	B		PM
7440-43-9	Cadmium	22.2		N	PM
7440-70-2	Calcium	48600			PM
7440-47-3	Chromium	14.2			PM
7440-48-4	Cobalt	5.01	B		PM
7440-50-8	Copper	26.8		N	PM
7439-89-6	Iron	10800			PM
7439-92-1	Lead	85.9			FM
7439-95-4	Magnesium	24300			PM
7439-96-5	Manganese	305			PM
7439-97-6	Mercury	~~0.03~~ 3.08 calc	B		AS
7440-02-2	Nickel	9.9		*	PM
7440-09-7	Potassium	2150			PM
7782-49-2	Selenium	0.66	U	W, ~~N~~	FM
7440-22-4	Silver	0.66	U		PM
7440-23-5	Sodium	140	B		PM
7440-28-0	Thallium	0.39	U	N	FM
7440-62-2	Vanadium	19.8			PM
7440-66-6	Zinc	2190			PM
———	Cyanide	1.0	U		AS
———	———				
———	———				

Color Before: —Brown— Clarity Before: —Opaque— Texture: -Fine
Color After: -Colorless— Clarity After: —Clear— Artifacts: ———
Comments: —Arsenic - code "B" follows Arsenic raw data because backgroun
—was above instrument correction limits. Not rerun because flow chart was
—followed.