SUB-SLAB SOIL VAPOR INVESTIGATION REPORT

Reckson Associates Realty Corporation

333 Smith Street Site Farmingdale, Suffolk County New York





Prepared for:

RECKSON ASSOCIATES REALTY CORPORATION

225 Broadhollow Road Melville, New York 11747



Prepared by:



Louis Berger & Assoc PC 100 Halsted Street East Orange, New Jersey 07019



SUB-SLAB SOIL VAPOR INVESTIGATION REPORT 333 SMITH STREET, FARMINGDALE, NY

1.0 INTRODUCTION

The following report has been prepared to document the activities conducted at the 333 Smith Street Site in Farmingdale, NY with regard to sampling of the sub-slab vapor. The building is currently undergoing renovations and will be completed as leased office space. On May 19, 2000, The Louis Berger Group, Inc. (Berger) submitted on behalf of owner Reckson Associates (Reckson) a Sub-Slab Soil Vapor Investigation Workplan to the New York State Department of Environmental Conservation (NYSDEC), the New York State Department of Health (NYSDOH), and the Suffolk County Department of Health Services (SCDHS). This workplan was reviewed by these agencies, amended in accordance with the resulting review comments, resubmitted on July 6, 2000, and approved in a letter from the NYSDEC dated July 14, 2000. This report presents the results of the subject investigation program, and addresses specific comments which were issued by the above aforementioned agencies on November 3, 2000, subsequent to the workplan approval.

2.0 SUB-SLAB VAPOR INVESTIGATION

This sub-slab vapor investigation sampling plan was implemented in full accordance with the approved workplan dated July 6, 2000. Overall, sub-slab vapor sampling locations were selected to accomplish two objectives: first, to measure the vapor concentrations underneath the slab; and, second, to evaluate the potential presence of a secondary source area under the building (the primary source has been remediated). The following subsections present the results of the investigation as they pertain to these two objectives.

2.1 Sub-Slab Vapor Sampling and Analysis

On July 25 and 26, 2000, Berger collected eight (8) soil vapor samples from beneath the concrete slab to measure concentrations of PCE and its degradation products at various locations beneath the building, and one additional sample outside the building to measure ambient air concentrations at the site (see Figure 1 for specific locations). Because the highest concentrations of vapor typically accumulate under the slab in areas furthest away from vapor relief points (i.e., edge of slab), sample locations were biased away from the building edges and the newly constructed atrium in the center of the building (which is open to the outside). In addition, one (1) of the samples (SG-8) was installed as close as practicable to the location of soil boring B-9, as requested by the NYSDOH because it represented the highest previous PCE soil vapor reading (refer to the Remedial Action Workplan, dated January 3, 2000, prepared by Environmental Resource Management).

Sample locations were prepared by initially coring a 1 1/2" diameter hole through the concrete slab, exposing the sub-slab soil. Immediately upon removal of the concrete core, a photoionization detector (PID) was utilized to screen for the presence of volatile organic vapors. PID measurements are summarized on Table 1, although it should be noted that the PID responses observed in SG-5 through SG-8 are believed to be of questionable accuracy due to interference from a significant accumulation of airborne concrete dust observed in the borehole. The readings collected during SG-1 through SG-4 are not similarly questioned because the observed dust accumulation in these boreholes was much less.

Analytical samples were collected utilizing 6-liter Summa canisters, flow-controlled to allow sample collection over a 24-hour period. Figure 2 is a schematic of the sample apparatus set-up that was utilized at each location. Care was used during installation to ensure that an air-tight seal was maintained between the sub-slab vapor and "indoor" air. The vacuum in each canister was recorded prior to and after sample collection and was again recorded in the laboratory to ensure no leakage occurred during collection and during transport to the laboratory. Summa canisters were shipped to Accutest

Laboratories in Dayton, New Jersey (New York Laboratory Certification No. 10983) for analysis via EPA Method TO-14/TO-15 (Volatile Organics).

The analytical results for the analytical samples reflect concentrations of PCE vapors that have accumulated underneath the building slab from the historic contamination. Figure 1 depicts the PCE concentrations at individual sample points. Laboratory summary pages are presented in Appendix A. As these results indicate, the highest concentrations of PCE vapor were somewhat predictably found to exist in closest proximity to the recently removed soils with PCE levels above the New York State TAGM HWR-94-4046 cleanup objectives of (1,400 ug/kg); and more specifically, at sampling points SG-7 and SG-8. It is therefore believed that these most elevated vapor concentrations are therefore the somewhat predictable result of the former contaminated soils which have now been removed, likely due to residual soil gas trapped beneath the slab and/or volatilization from the soils and groundwater underlying the former residual contamination.

2.2 Secondary Source Evaluation

The second objective of this investigation involved utilizing the sub-slab vapor results to determine whether a potential secondary source of PCE contamination exists underneath the building.

As shown on Figure 1 and detailed in Appendix A, the results for the remaining six sub-slab vapor sample locations (SG-1 through SG-6) were reviewed and observed to show concentrations considerably lower than those in SG-7 and SG-8 (it should be noted that due to there being less than the full sample volume in SG-2, the result reported is estimated). It is also noted that the results for these locations exhibit vapor levels similar in magnitude to each other. Based on these findings, it is likely that the PCE detected at these locations is from the residual levels of PCE and the accumulation of vapor beneath the slab over the site history (the more than 10 years since cessation of site operations, and probably considerably longer since the initial spill). Based on these results, there

does not appear to be a secondary, previously undetected source of PCE contamination beneath the building.

3.0 CONCLUSIONS

Based on previous investigations and remediation conducted at the Site, the levels of PCE in the sub-surface soil are found to be below the New York State TAGM standards. The sub-slab soil vapor sampling conducted as part of this investigation revealed PCE concentrations consistent with what would be expected based on the concentration of PCE contaminants present prior to remediation. At this time further investigations or actions to address sub-slab soil contamination are not warranted.

Nonetheless, Reckson understands the concerns of the Department of Health with regard to residual PCE vapors and the potential effect on the indoor air quality upon building completion. For this purpose, Reckson has prepared and implemented an indoor air quality protection plan which has been submitted under separate cover.

	TABLES		

"你是一点激励的意义

Table 1

333 Smith Street Sub-Slab Vapor Investigation

PID & Vacuum Data

Sample Location	Initial PID Reading	Post-Sample PID Reading	Initial Vacuum	Final Vacuum
SG-1	0.3	1.5	29.8	11.8
SG-2	9	32	28.2	24.5
SG-3	500	19.8	>30	13
SG-4	200	6	>30	8.2
SG-5	9999*	7.6	>30	6
SG-6	6000*	39	>30	13
SG-7	9999*	76	28	5.5
SG-8	7000*	. 35	>30	4.4
SG-9	0	0	28	16.8

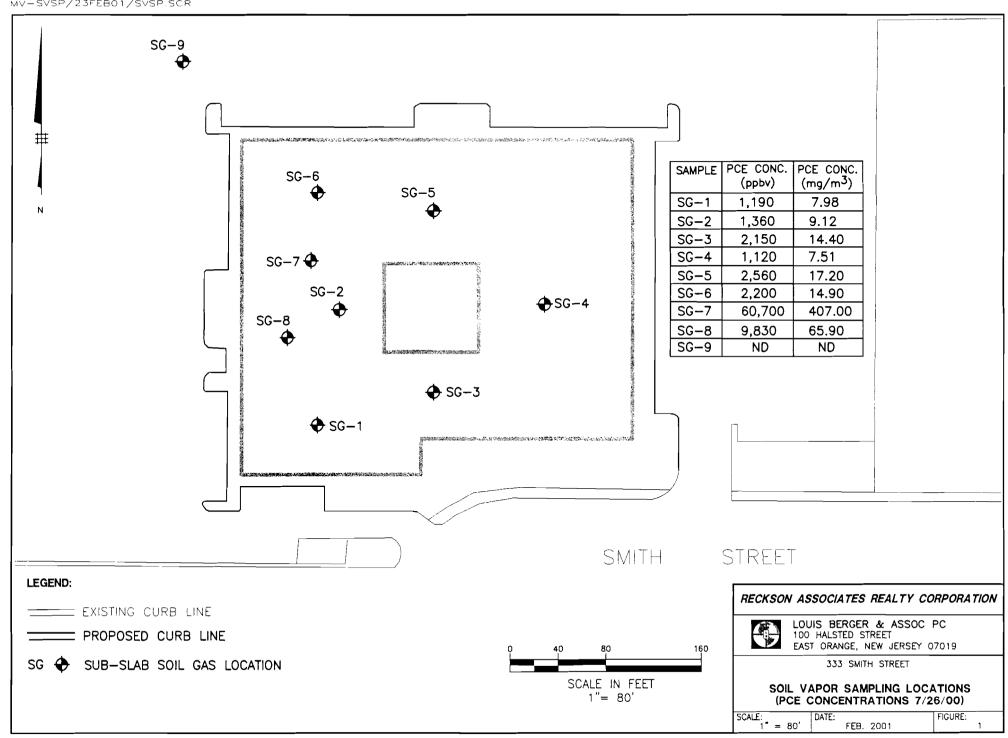
Notes:

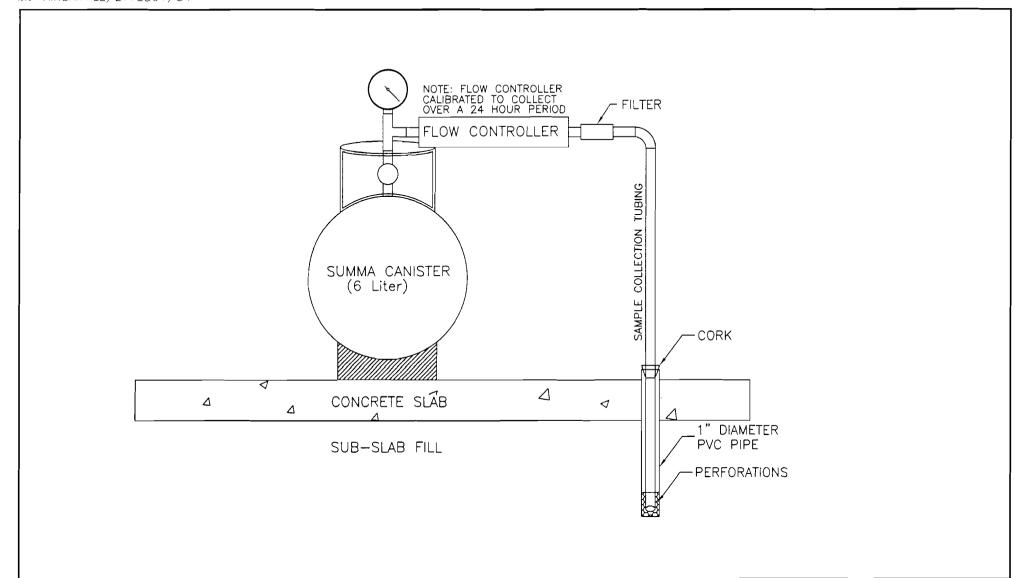
PID = Photoionization Detector (results in parts per million)

Vacuum Readings in inches of mercury

^{* -} Questionable readings due to concrete dust accumulation in PID

FIGURES





RECKSON ASSOCIATES REALTY CORPORATION



THE LOUIS 30 VREELAND ROAD FLORHAM PARK, NJ 07932 THE LOUIS BERGER GROUP, INC. 30 VREELAND ROAD

333 SMITH STREET

SOIL VAPOR COLLECTION APPARATUS

SCALE: FIGURE: N.T.S. FEB. 2001

APPENDIX A Sub-Slab Soil Vapor Analytical Results

AUG 3



		cal			

Louis Berger & Assoc.

Reckson Associates, Farmingdale, NY

Accutest Job Number: E73778



Louis Berger & Assoc. 100 Halsted Street East Orange, NJ 07019

ATTN: Tom Tanico

Total number of pages in report: 303

Vincent J. Pugliese President

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, KS, MA, MD, NC, PA, RI, SC, VA Results relate only to the items tested.

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.



Sample Summary

Louis Berger & Assoc.

Reckson Associates, Farmingdale, NY

Job No:

E73778

-	Collected Date	Time By	Received	Matri Code		Client Sample ID
E73778-1	07/25/00	16:09 BFJ	07/27/00	AIR	Air	SG-1
E73778-2	07/25/00	16:14 BFJ	07/27/00	AIR	Air	SG-2
E73778-3	07/25/00	16:23 BFJ	07/27/00	AIR	Air	SG-3
E73778-4	07/25/00	16:27 BFJ	07/27/00	AIR	Air	SG-4
E73778-5	07/25/00	16:32 BFJ	07/27/00	AIR	Air	SG-5
E73778-6	07/25/00	16:37 BFJ	07/27/00	AIR	Air	SG-6
E73778-7	07/25/00	16:42 BFJ	07/27/00	AIR	Air 、	SG-7
E73778-8	07/25/00	16:49 BFJ	07/27/00	AIR	Air	SG-8
E73778-9	07/25/00	16:55 BFJ	07/27/00	AIR	Air	SG-9



Laboratory Deliverables

	Date of Report.	
2.	Table of Contents.	
3.	Summary Sheets listing analytical results for all targeted and non-targeted compounds.	
4.	Summary Table cross-referencing field ID #'s vs. lab ID #'s.	•
5.	Document bound, paginated and legible.	
6.	Chain of Custody.	
7.	Methodology Summary	
8.	Laboratory Chronicle and Holding Time Check.	
9.	Results submitted on a dry weight basis (if applicable)	
10.	Method Detection Limits.	
11.	Lab certified by NJDEPE for parameters or appropriate category of parameters or a member of the USEPA CLP.	
••	Non-Conformance Summary.	



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Title/Cover Page

Deliverable Checklist

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- B. Chain of Custody
- C. Laboratory Chronicles

Section 2 GC/MS Support Data (grouped by fraction)

- A. Methodology Review
- B. Conformance/Non-conformance Summary
- C. Surrogate Recovery Results Summary
- D. Matrix Spike/Matrix Spike Duplicate Summary
- E. Method Blank Summary
- F. Tune Results Summary
- G. Calibration Summary (sorted by Instrument)

Initial Calibration Check Summary

Continuing Calibration Check Summary

- H. Internal Standard Summary
- I. Sample and Blank Chromatograms, Quant Reports, Mass Spectra, and Library Search Data

Section 3 GC Support Data

- A. Methodology Review
- B. Conformance/Non-conformance Summary
- C. Surrogate Recovery Results Summary
- D. Matrix Spike/Matrix Spike Duplicate Summary
- E. Method Blank Summary
- F. Calibration Summary (sorted by Instrument)

Initial Calibration Check Summary

Continuing Calibration Check Summary

- G. Retention Time Shift Summary
- H. Sample, Blank and Multi-peak Standard Chromatograms and Quant Reports

Section 4 Metals Support Data (sorted by Instrument Type - ICP, Furnace, Flame, Mercury)

- A. Methodology Review
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- C. Blank Results Summary
 - Initial and Continuing Calibration Blank Summary
 - Method Blank Summary
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 - Matrix Spike and Duplicate Results Summary
 - Spike Blank and Lab Control Sample Summary
 - Serial Dilution Results Summary
- E. Calibration Summary
 - Calibration Check Standards Summary
 - Interfering Elements Check Standard Summary

Section 5 General Chemistry/Petroleum Hydrocarbon Support Data

- A. Methodology Review
- B. Conformance/Non-Conformance Summary
- C. Batch Quality Control Summary
 - Method Blank and Spike Blank Results Summary
 - Matrix Spike Results Summary
 - Duplicate Results Summary
- D. Raw Data and IR Spectra (Petroleum Hydrocarbons)
- E. Raw Data and Run Record (Hexavalent Chromium)

Client Sample ID: SG-1

Lab Sample ID: E73778-1

Matrix: Method: AIR - Air TO-14/TO-15 **Date Sampled:** 07/25/00 **Date Received:** 07/27/00

Percent Solids: n/a

Project:

Reckson Associates, Farmingdale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q9282.D	1	07/31/00	WG	n/a	n/a	VQ363
Run #2	Q9372.D	10	08/08/00	WG	n/a	n/a	VQ365
Run #3	Q9300.D	160	08/03/00	WG	n/a	n/a	VQ364

Kuii #3	Q9300	J.D 100 08/03	700 WG				<u>-</u>	VQ30	/ T
CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
71-43-2	78	Benzene	0.74	0.20	ppbv		2.4	0.64	ug/m3
74-83-9	94	Bromomethane	ND	0.20	ppbv		ND	0.77	ug/m3
108-90-7	112	Chlorobenzene	ND	0.20	ppbv		ND	0.92	ug/m3
75-00-3	64	Chloroethane	ND	0.20	ppbv		ND	0.52	ug/m3
67-66-3	.118	Chloroform	2.0	0.20	ppbv		9.6	0.96	ug/m3
74-87-3	50	Chloromethane	ND	0.20	ppbv		ND	0.41	ug/m3
56-23-5	152	Carbon tetrachloride	ND	0.20	ppbv		ND	1.2	ug/m3
75-34-3	98	1,1-Dichloroethane	0.67	0.20	ppbv		2.7	0.80	ug/m3
75-35-4	96	1,1-Dichloroethylene	2.4	0.20	ppbv		9.4	0.78	ug/m3
106-93-4	186	1,2-Dibromoethane	ND	0.20	ppbv		ND	1.5	ug/m3
107-06-2	98	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.80	ug/m3
78-87-5	112	1,2-Dichloropropane	ND	0.20	ppbv		ND	0.92	ug/m3
75-71-8	120	Dichlorodifluoromethane	0.70	0.20	ppbv		3.4	0.98	ug/m3
156-59-2	96	cis-1,2-Dichloroethylene	5.7	0.20	ppbv		22	0.78	ug/m3
10061-01-5	110	cis-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.90	ug/m3
541-73-1	146	m-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
95-50-1	146	o-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
106-46-7	146	p-Dichlorobenzene	0.12	0.20	ppbv	J	0.72	1.2	ug/m3
10061-02-6	110	trans-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.90	ug/m3
100-41-4	106	Ethylbenzene	1.2	0.20	ppbv		5.2	0.87	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	ppbv		ND	0.98	ug/m3
76-13-1	186	Freon 113	6.8	0.20	ppbv	В	52	1.5	ug/m3
76-14-2	170	Freon 114	ND	0.20	ppbv		ND	1.4	ug/m3
87-68-3	261	Hexachlorobutadiene	ND	0.20	ppbv		ND	2.1	ug/m3
75-09-2	84	Methylene chloride	3.2	0.20	ppbv	В	11	0.69	ug/m3
1634-04-4	88	Methyl Tert Butyl Ether	0.81	0.20	ppbv		2.9	0.72	ug/m3
100-42-5	104	Styrene	1.8	0.20	ppbv		7.6	0.85	ug/m3
71-55-6	132	1,1,1-Trichloroethane	62.7 ^a	2 .0	ppbv		338 a	§ 11	ug/m3
79-34-5	166	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	132	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	ે 1.1	ug/m3
120-82-1	181	1,2,4-Trichlorobenzene	ND	0.20	ppbv		ND	1.5	ug/m3
95-63-6	120	1,2,4-Trimethylbenzene	0,30	0.20	ppbv		1.5	0.98	ug/m3
108-67-8	120	1,3,5-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
127-18-4	164	Tetrachloroethylene	1190 b	32	ppbv		7980 b	210	ug/m3
108-88-3	92	Toluene	8,6	0.20 ————	ppbv		32	0.75	ug/m3

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Client Sam Lab Sampl Matrix: Method: Project:	•	SG-1 E73778-1 AIR - Air TO-14/TO-15 Reckson Associates, Fa	ırmingdale, N	I I	Date Samp Date Receiv Percent Sol	ved: 07	/25/00 /27/00	
CAS No.	MW	Compound	Resul	t RL	Units	Q Res	ult RL	Units
79-01-6	130	Trichloroethylene	40. 9	2.0	ppbv	217	a 11	ug/m3
75-69-4	136	Trichlorofluoromethane	0.80	0.20	ppbv	4.4	1.1	ug/m3
75-01-4	62	Vinyl chloride	ND	0.20	ppbv	ND	0.51	ug/m3
	106	m,p-Xylene	3. 7	0.20	ррву	16	0.87	ug/m3
95-47-6	106	o-Xylene	0.96	0.20	ppbv	4.2	0.87	ug/m3
1330-20-7	106	Xylenes (total)	4.6	0.20	ppbv	20	0.87	ug/m3
CAS No.	Surre	ogate Recoveries	Run# 1	Run# 2	Run# 3	Limit	s	

102% 102% 89% 70-130%

4-Bromofluorobenzene

460-00-4

⁽a) Result is from Run# 2

⁽b) Result is from Run# 3

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound

Client Sample ID: SG-2
Lab Sample ID: E73778-2
Matrix: AIR - Air

Method: TO-14/TO-15

File ID

Q9366.D

Q9384.D

Run #1

Run #2

Project: Reckson Associates, Farmingdale, NY

DF

8

80

Date Sampled: 07/25/00
Date Received: 07/27/00
Percent Solids: n/a

 Analyzed
 By
 Prep Date
 Prep Batch
 Analytical Batch

 08/08/00
 WG
 n/a
 n/a
 VQ365

 08/09/00
 WG
 n/a
 n/a
 VQ365

Ruii # Z	Q230-			11/ a			<u> </u>	· VQ302	,
CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
71-43-2	78	Benzene	0.93	1.6	ppbv	J	3.0	5.1	ug/m3
74-83-9	94	Bromomethane	ND	1.6	ppbv		ND	6.2	ug/m3
108-90-7	112	Chlorobenzene	ND	1.6	ppbv		ND	7.3	ug/m3
75-00-3	64	Chloroethane	ND	1.6	ppbv		ND	4.2	ug/m3
67-66-3	118	Chloroform	2.9	1.6	ppbv		14	7.7	ug/m3
74-87-3	50	Chloromethane	ND	1.6	ppbv		ND	3.3	ug/m3
56-23-5	152	Carbon tetrachloride	ND	1.6	ppbv		ND	9.9	ug/m3
75-34-3	98	1,1-Dichloroethane	ND	1.6	ppbv		ND	6.4	ug/m3
75-35-4	96	1,1-Dichloroethylene	ND	1.6	ppbv		ND	6.3	ug/m3
106-93-4	186	1,2-Dibromoethane	ND	1.6	ppbv		ND	12	ug/m3
107-06-2	98	1,2-Dichloroethane	ND	1.6	ppbv		ND	6.4	ug/m3
78-87-5	112	1,2-Dichloropropane	ND	1.6	ppbv		ND	7.3	ug/m3
75-71-8	120	Dichlorodifluoromethane	1.1	1.6	ppbv	J	5.4	7.8	ug/m3
156-59-2	96	cis-1,2-Dichloroethylene	3.9	1.6	ppbv		15	6.3	ug/m3
10061-01-5	110	cis-1,3-Dichloropropene	ND	1.6	ppbv		ND	7.2	ug/m3
541-73-1	146	m-Dichlorobenzene	ND	1.6	ppbv		ND	9.6	ug/m3
95-50-1	146	o-Dichlorobenzene	ND	1.6	ppbv		ND	9.6	ug/m3
106-46-7	146	p-Dichlorobenzene	ND	1.6	ppbv		ND	9.6	ug/m3
10061-02-6	110	trans-1,3-Dichloropropene	ND	1.6	ppbv		ND	7.2	ug/m3
100-41-4	106	Ethylbenzene	1.8	1.6	ppbv		7.8	6.9	ug/m3
622-96-8	120.2	24-Ethyltoluene	ND	1.6	ppbv		ND	7.9	ug/m3
76-13-1	186	Freon 113	106	1.6	ppbv		806	12	ug/m3
76-14-2	170	Freon 114	ND	1.6	ppbv		ND	11	ug/m3
87-68-3	261	Hexachlorobutadiene	ND	1.6	ppbv		ND	17	ug/m3
75-09-2	84	Methylene chloride	13.2	1.6	ppbv	В	45.3	5.5	ug/m3
1634-04-4	88	Methyl Tert Butyl Ether	ND	1.6	ppbv		ND	5.8	ug/m3
100-42-5	104	Styrene	2.4	1.6	ppbv		10	6.8	ug/m3
71-55-6	132	1,1,1-Trichloroethane	11.5	1.6	ppbv		62.1	8.6	ug/m3
79-34-5	166	1,1,2,2-Tetrachloroethane	ND	1.6	ppbv		ND	11	ug/m3
79-00-5	132	1,1,2-Trichloroethane	ND	1.6	ppbv		ND	8.6	ug/m3
120-82-1	181	1,2,4-Trichlorobenzene	ND	1.6	ppbv		ND	12	ug/m3
95-63-6	120	1,2,4-Trimethylbenzene	ND	1.6	ppbv		ND	7.8	ug/m3
108-67-8	120	1,3,5-Trimethylbenzene	ND	1.6	ppbv		ND	7.8	ug/m3
127-18-4	164	Tetrachloroethylene	1360 a	16	ppbv		9120 a	110	ug/m3
108-88-3	92	Toluene	14.5	1.6	ppbv		54.6	6.0	ug/m3
79-01-6	130	Trichloroethylene	32.6	1.6	ppbv		173	8.5	ug/m3

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Client Sam Lab Sample Matrix: Method: Project:	-	SG-2 E73778-2 AIR - Air TO-14/TO-15 Reckson Associates, Fa	armingdale, l	I	Date Sampled: 07/25/00 Date Received: 07/27/00 Percent Solids: n/a						
CAS No.	MW	Compound	Resu	lt RL	Units	Q	Result	RL	Units		
75-69-4	136	Trichlorofluoromethane	ND	1.6	ppbv		ND	8.9	ug/m3		
75-01-4	62	Vinyl chloride	ND	1.6	ppbv		ND	4.0	ug/m3		
	106	m,p-Xylene	5.7	1.6	ppbv		25	6.9	ug/m3		
95-47-6	106	o-Xylene	1.3	1.6	ppbv	J	5.6	6.9	ug/m3		
1330-20-7	106	Xylenes (total)	7.0	1.6	ppbv		30	6.9	ug/m3		
CAS No.	Surr	ogate Recoveries	Run# 1	Run# 2	Limits						
460-00-4	4-Bro	omofluorobenzene	100%	92%	70-130%						

⁽a) Result is from Run# 2

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound

Вy

Analyzed

Analytical Batch

Client Sample ID: SG-3

Lab Sample ID: E73778-3

Matrix: Method: AIR - Air TO-14/TO-15

Date Sampled: 07/25/00 Date Received: 07/27/00 Percent Solids: n/a

Prep Batch

Prep Date

File ID

Project:	Reckson Associates, Farminguale, N I

DF

Run #1		rue		Anaryzec			Date		rep batch	-	yticai batch
Run #3											
CAS No. MW Compound Result RL Units Q Result RL Units RL Units Ru Ru Ru Ru Ru Ru Ru R	1	-									
71-43-2	Run #3	Q9302	2.D = 80	08/03/00	WG	n/a		r	1/a 	VQ36)4
74-83-9 94 Bromomethane ND 0.20 ppbv ND 0.77 ug/m3 108-90-7 112 Chlorobenzene ND 0.20 ppbv ND 0.92 ug/m3 67-60-3 64 Chloroform 2.0 0.20 ppbv 9.6 0.96 ug/m3 74-87-3 50 Chloromethane ND 0.20 ppbv ND 0.41 ug/m3 56-23-5 152 Carbon tetrachloride 0.22 0.20 ppbv 1.4 1.2 ug/m3 75-34-3 98 1,1-Dichloroethane 0.50 0.20 ppbv 10 0.78 ug/m3 75-35-4 96 1,2-Dichloroethane ND 0.20 ppbv ND 1.5 ug/m3 107-06-2 98 1,2-Dichloroethane ND 0.20 ppbv ND 0.50 ug/m3 75-71-8 120 Dichlorodifluoromethane 0.87 0.20 ppbv ND 0.92 ug/m3 <td>CAS No.</td> <td>MW</td> <td>Compound</td> <td></td> <td>Result</td> <td>RL</td> <td>Units</td> <td>Q</td> <td>Result</td> <td>RL</td> <td>Units</td>	CAS No.	MW	Compound		Result	RL	Units	Q	Result	RL	Units
108-90-7	71-43-2				9 x 20 3 to the published in Oct. 1	555a+	ppbv		21. * **********************************	0.64	ug/m3
75-00-3 64 Chloroform 2.0 0.20 ppbv 0.63 0.52 ug/m3 47-66-3 118 Chloroform 2.0 0.20 ppbv 9.6 0.96 ug/m3 47-87-3 50 Chloromethane ND 0.20 ppbv ND 0.41 ug/m3 56-23-5 152 Carbon tetrachloride 0.22 0.20 ppbv 1.4 1.2 ug/m3 75-34-3 98 1,1-Dichloroethane 0.50 0.20 ppbv 1.0 0.78 ug/m3 106-93-4 186 1,2-Dichloroethane ND 0.20 ppbv ND 0.78 ug/m3 107-06-2 98 1,2-Dichloroethane ND 0.20 ppbv ND 0.80 ug/m3 75-71-8 120 Dichlorodifluoromethane 0.87 0.20 ppbv ND 0.92 ug/m3 156-59-2 96 cis-1,2-Dichlorobenzene ND 0.20 ppbv ND 0.20	74-83-9									/	
67-66-3 118 Chloroform 2.0 0.20 ppbv 9.6 0.96 ug/m3 74-87-3 50 Chloromethane ND 0.20 ppbv ND 0.41 ug/m3 56-23-5 152 Carbon tetrachloride 0.22 0.20 ppbv 1.4 1.2 ug/m3 75-34-3 98 1,1-Dichloroethane 0.50 0.20 ppbv 2.0 0.80 ug/m3 75-35-4 96 1,1-Dichloroethane ND 0.20 ppbv ND 0.78 ug/m3 107-06-2 98 1,2-Dichloroethane ND 0.20 ppbv ND 0.80 ug/m3 107-06-2 98 1,2-Dichloroptopane ND 0.20 ppbv ND 0.80 ug/m3 107-05-2 96 cis-1,2-Dichlorobenzene ND 0.20 ppbv ND 0.92 ug/m3 156-59-2 96 cis-1,2-Dichlorobenzene ND 0.20 ppbv ND 0.90	108-90-7	112	Chlorobenzene	÷		0.20	ppbv			0.92	ug/m3
74-87-3 50 Chloromethane ND 0.20 ppbv ND 0.41 ug/m3 56-23-5 152 Carbon tetrachloride 0.22 0.20 ppbv 1.4 1.2 ug/m3 75-34-3 98 1,1-Dichloroethylene 2.6 0.20 ppbv 1.0 0.78 ug/m3 106-93-4 186 1,2-Dichloroethane ND 0.20 ppbv ND 1.5 ug/m3 107-06-2 98 1,2-Dichloropthane ND 0.20 ppbv ND 0.80 ug/m3 78-87-5 112 1,2-Dichloropthane ND 0.20 ppbv ND 0.92 ug/m3 156-59-2 96 cis-1,2-Dichlorothylene 8.2 0.20 ppbv ND 0.99 ug/m3 106-10-15 110 cis-1,3-Dichloroptopene ND 0.20 ppbv ND 0.90 ug/m3 541-73-1 146 m-Dichlorobenzene ND 0.20 ppbv ND 1.2					and the second of the second						
56-23-5 152 Carbon tetrachloride 0.22 0.20 ppbv 1.4 1.2 ug/m3 75-34-3 98 1,1-Dichloroethane 0.50 0.20 ppbv 2.0 0.80 ug/m3 75-35-4 96 1,1-Dichloroethylene 2.6 0.20 ppbv 10 0.78 ug/m3 107-06-2 98 1,2-Dichloroethane ND 0.20 ppbv ND 0.80 ug/m3 78-87-5 112 1,2-Dichloroethylene ND 0.20 ppbv ND 0.92 ug/m3 75-71-8 120 Dichlorodifluoromethane 0.87 0.20 ppbv A.3 0.98 ug/m3 156-59-2 96 cis-1,2-Dichloroptopene ND 0.20 ppbv ND 0.99 ug/m3 541-73-1 146 m-Dichlorobenzene ND 0.20 ppbv ND 0.99 ug/m3 95-50-1 146 o-Dichlorobenzene ND 0.20 ppbv ND	67-66-3	118	Chloroform			A ?					ug/m3
75-34-3 98 1,1-Dichloroethane 0.50 0.20 ppbv 2.0 0.80 ug/m3 75-35-4 96 1,1-Dichloroethylene 2.6 0.20 ppbv 10 0.78 ug/m3 106-93-4 186 1,2-Dichloroethane ND 0.20 ppbv ND 1.5 ug/m3 78-87-5 112 1,2-Dichloroethane ND 0.20 ppbv ND 0.92 ug/m3 75-71-8 120 Dichlorodifluoromethane 0.87 0.20 ppbv A3 0.98 ug/m3 156-59-2 96 cis-1,2-Dichloroethylene 8.2 0.20 ppbv ND 0.92 ug/m3 156-59-2 96 cis-1,3-Dichloropropene ND 0.20 ppbv ND 0.90 ug/m3 156-59-1 146 m-Dichlorobenzene ND 0.20 ppbv ND 1.2 ug/m3 95-50-1 146 p-Dichlorobenzene ND 0.20 ppbv ND	74-87-3		Chloromethane							0.41	ug/m3
75-35-4 96 1,1-Dichloroethylene 2.6 0.20 ppbv 10 0.78 ug/m3 106-93-4 186 1,2-Dichloroethane ND 0.20 ppbv ND 1.5 ug/m3 107-06-2 98 1,2-Dichloroethane ND 0.20 ppbv ND 0.80 ug/m3 78-87-5 112 1,2-Dichloroethylene 8.2 0.20 ppbv ND 0.92 ug/m3 156-59-2 96 cis-1,2-Dichloroethylene 8.2 0.20 ppbv ND 0.98 ug/m3 1061-01-5 110 cis-1,3-Dichloropropene ND 0.20 ppbv ND 0.90 ug/m3 541-73-1 146 m-Dichlorobenzene ND 0.20 ppbv ND 1.2 ug/m3 95-50-1 146 p-Dichlorobenzene 0,18 0.20 ppbv ND 1.2 ug/m3 100-41-4 106 Ethylbenzene 1,5 0.20 ppbv ND 0.9	56-23-5	152	Carbon tetrachloride			0.20	ppbv			1.2	ug/m3
106-93-4 186 1,2-Dibromoethane ND 0.20 ppbv ND 1.5 ug/m3 107-06-2 98 1,2-Dichloroethane ND 0.20 ppbv ND 0.80 ug/m3 78-87-5 112 1,2-Dichloropropane ND 0.20 ppbv ND 0.92 ug/m3 75-71-8 120 Dichlorodifluoromethane 0.87 0.20 ppbv 4.3 0.98 ug/m3 156-59-2 96 cis-1,2-Dichloropropene ND 0.20 ppbv 32 0.78 ug/m3 10661-01-5 110 cis-1,3-Dichloropropene ND 0.20 ppbv ND 0.90 ug/m3 541-73-1 146 m-Dichlorobenzene ND 0.20 ppbv ND 1.2 ug/m3 95-50-1 146 o-Dichlorobenzene ND 0.20 ppbv ND 1.2 ug/m3 1064-6-7 146 p-Dichlorobenzene ND 0.20 ppbv ND 1.2 ug/m3 100-41-4 106 Ethylbenzene 1.5 0.20 ppbv ND 0.90 ug/m3 622-96-8 120.2 4-Ethyltoluene ND 0.20 ppbv ND 0.98 ug/m3 76-13-1 186 Freon 113 3.6 0.20 ppbv ND 0.98 ug/m3 76-14-2 170 Freon 114 ND 0.20 ppbv ND 0.14 ug/m3 87-68-3 261 Hexachlorobutadiene ND 0.20 ppbv ND 2.1 ug/m3 75-09-2 84 Methylene chloride 1.9 0.20 ppbv ND 2.1 ug/m3 100-42-5 104 Styrene 2.3 0.20 ppbv ND 1.4 ug/m3 79-34-5 166 1,1,2,2-Tetrachloroethane ND 0.20 ppbv ND 1.4 ug/m3 79-34-5 166 1,1,2,2-Tetrachloroethane ND 0.20 ppbv ND 1.1 ug/m3 120-82-1 181 1,2,4-Trichlorobenzene ND 0.20 ppbv ND 1.5 ug/m3 108-67-8 120 1,3,5-Trimethylbenzene 0.10 0.20 ppbv J 0.49 0.98 ug/m3 127-18-4 164 Tetrachloroethylene 2150 16 ppbv J 0.490 0.98 ug/m3 127-18-4 164 Tetrachloroethylene 2150 16 ppbv J 0.490 0.98 ug/m3 127-18-4 164 Tetrachloroethylene 2150 16 ppbv J 0.490 0.98 ug/m3 127-18-4 164 Tetrachloroethylene 2150 16 ppbv J 0.490 0.98 ug/m3 127-18-4 164 Tetrachloroethylene 2150 16 ppbv J 0.490 0.98 ug/m3 127-18-4 164 Tetrachloroethylene 2150 16	75-34-3	98	1,1-Dichloroethane			0.20			2.0	0.80	
107-06-2 98 1,2-Dichloroethane ND 0.20 ppbv ND 0.80 ug/m3	75-35-4	96	1,1-Dichloroethylene	;	2.6	0.20	ppbv		10	0.78	ug/m3
78-87-5 112 1,2-Dichloropropane ND 0.20 ppbv ND 0.92 ug/m3 75-71-8 120 Dichlorodifluoromethane 0.87 0.20 ppbv 4.3 0.98 ug/m3 156-59-2 96 cis-1,2-Dichloroethylene 8.2 0.20 ppbv ND 0.90 ug/m3 541-73-1 146 m-Dichlorobenzene ND 0.20 ppbv ND 1.2 ug/m3 95-50-1 146 o-Dichlorobenzene ND 0.20 ppbv ND 1.2 ug/m3 106-46-7 146 p-Dichlorobenzene 0.18 0.20 ppbv ND 0.90 ug/m3 10041-4 106 Ethylbenzene 1.5 0.20 ppbv ND 0.90 ug/m3 622-96-8 120.2 4-Ethyltoluene ND 0.20 ppbv ND 0.98 ug/m3 76-14-2 170 Freon 114 ND 0.20 ppbv ND 1.4 ug/m3	106-93-4	186	1,2-Dibromoethane		ND	0.20	ppbv		ND	1.5	ug/m3
75-71-8 120 Dichlorodifluoromethane 0.87 0.20 ppbv 4.3 0.98 ug/m3 156-59-2 96 cis-1,2-Dichloroethylene 8.2 0.20 ppbv 32 0.78 ug/m3 10061-01-5 110 cis-1,3-Dichloropropene ND 0.20 ppbv ND 0.90 ug/m3 541-73-1 146 m-Dichlorobenzene ND 0.20 ppbv ND 1.2 ug/m3 95-50-1 146 o-Dichlorobenzene ND 0.20 ppbv ND 1.2 ug/m3 106-46-7 146 p-Dichlorobenzene 0.18 0.20 ppbv ND 0.90 ug/m3 100-41-4 106 Ethylbenzene 1.5 0.20 ppbv ND 0.90 ug/m3 622-96-8 120.2 4-Ethyltoluene ND 0.20 ppbv ND 0.98 ug/m3 76-13-1 186 Freon 113 3.6 0.20 ppbv ND 1.4 ug/m	107-06-2	98	1,2-Dichloroethane	3	ND	0.20	ppbv		ND	0.80	ug/m3
156-59-2 96 cis-1,2-Dichloroethylene 8.2 0.20 ppbv 32 0.78 ug/m3 10061-01-5 110 cis-1,3-Dichloropropene ND 0.20 ppbv ND 0.90 ug/m3 541-73-1 146 m-Dichlorobenzene ND 0.20 ppbv ND 1.2 ug/m3 95-50-1 146 o-Dichlorobenzene 0.18 0.20 ppbv ND 1.2 ug/m3 106-46-7 146 p-Dichlorobenzene 0.18 0.20 ppbv ND 0.20 ug/m3 100-61-02-6 110 trans-1,3-Dichloropropene ND 0.20 ppbv ND 0.90 ug/m3 100-41-4 106 Ethylbenzene 1.5 0.20 ppbv ND 0.90 ug/m3 622-96-8 120.2 4-Ethyltoluene ND 0.20 ppbv ND 0.98 ug/m3 76-13-1 186 Freon 113 3.6 0.20 ppbv ND 1.4 <td< td=""><td>78-87<i>-</i>5</td><td>112</td><td>1,2-Dichloropropane</td><td>3</td><td>ND</td><td>0.20</td><td>ppbv</td><td></td><td>ND</td><td>0.92</td><td>ug/m3</td></td<>	78-87 <i>-</i> 5	112	1,2-Dichloropropane	3	ND	0.20	ppbv		ND	0.92	ug/m3
156-59-2 96 cis-1,2-Dichloroethylene 8.2 0.20 ppbv 32 0.78 ug/m3 10061-01-5 110 cis-1,3-Dichloropropene ND 0.20 ppbv ND 0.90 ug/m3 541-73-1 146 m-Dichlorobenzene ND 0.20 ppbv ND 1.2 ug/m3 95-50-1 146 o-Dichlorobenzene 0,18 0.20 ppbv ND 1.2 ug/m3 106-46-7 146 p-Dichlorobenzene 0,18 0.20 ppbv ND 0.90 ug/m3 100-41-4 106 Ethylbenzene 1.5 0.20 ppbv ND 0.90 ug/m3 622-96-8 120.2 4-Ethyltoluene ND 0.20 ppbv ND 0.98 ug/m3 76-13-1 186 Freon 113 3.6 0.20 ppbv ND 1.4 ug/m3 87-68-3 261 Hexachlorobtadiene ND 0.20 ppbv ND 1.4 ug/m3	75-71-8	120	Dichlorodifluorometha	ane :	0.87	0.20	ppbv		4.3	0.98	ug/m3
541-73-1 146 m-Dichlorobenzene ND 0.20 ppbv ND 1.2 ug/m3 95-50-1 146 o-Dichlorobenzene ND 0.20 ppbv ND 1.2 ug/m3 106-46-7 146 p-Dichlorobenzene 0.18 0.20 ppbv J 1.1 1.2 ug/m3 10061-02-6 110 trans-1,3-Dichloropropene ND 0.20 ppbv ND 0.90 ug/m3 100-41-4 106 Ethylbenzene 1.5 0.20 ppbv ND 0.90 ug/m3 622-96-8 120.2 4-Ethyltoluene ND 0.20 ppbv ND 0.98 ug/m3 76-13-1 186 Freon 113 3.6 0.20 ppbv ND 0.98 ug/m3 76-14-2 170 Freon 114 ND 0.20 ppbv ND 1.4 ug/m3 87-68-3 261 Hexachlorobutadiene ND 0.20 ppbv ND 0.72 ug/m3<	156-59-2	96	cis-1,2-Dichloroethyle	ene	8.2	0.20			32	0.78	ug/m3
95-50-1 146 o-Dichlorobenzene ND 0.20 ppbv ND 1.2 ug/m3 106-46-7 146 p-Dichlorobenzene 0.18 0.20 ppbv J 1.1 1.2 ug/m3 10061-02-6 110 trans-1,3-Dichloropropene ND 0.20 ppbv ND 0.90 ug/m3 100-41-4 106 Ethylbenzene 1.5 0.20 ppbv ND 0.98 ug/m3 622-96-8 120.2 4-Ethyltoluene ND 0.20 ppbv ND 0.98 ug/m3 76-13-1 186 Freon 113 3.6 0.20 ppbv ND 0.98 ug/m3 76-14-2 170 Freon 114 ND 0.20 ppbv ND 1.4 ug/m3 87-68-3 261 Hexachlorobutadiene ND 0.20 ppbv ND 2.1 ug/m3 1634-04-4 88 Methyl Tert Butyl Ether 3.7 0.20 ppbv B 6.5 </td <td>10061-01-5</td> <td>110</td> <td>cis-1,3-Dichloroprope</td> <td>ne</td> <td>ND</td> <td>0.20</td> <td>ppbv</td> <td></td> <td>ND</td> <td>0.90</td> <td>ug/m3</td>	10061-01-5	110	cis-1,3-Dichloroprope	ne	ND	0.20	ppbv		ND	0.90	ug/m3
106-46-7 146 p-Dichlorobenzene 0.18 0.20 ppbv J 1.1 1.2 ug/m3 10061-02-6 110 trans-1,3-Dichloropropene ND 0.20 ppbv ND 0.90 ug/m3 100-41-4 106 Ethylbenzene 1.5 0.20 ppbv 6.5 0.87 ug/m3 622-96-8 120.2 4-Ethyltoluene ND 0.20 ppbv ND 0.98 ug/m3 76-13-1 186 Freon 113 3.6 0.20 ppbv B 27 1.5 ug/m3 76-14-2 170 Freon 114 ND 0.20 ppbv ND 1.4 ug/m3 87-68-3 261 Hexachlorobutadiene ND 0.20 ppbv ND 2.1 ug/m3 1634-04-4 88 Methyl Tert Butyl Ether 3.7 0.20 ppbv B 6.5 0.69 ug/m3 100-42-5 104 Styrene 2.3 0.20 ppbv 9.8	541-73-1	146	m-Dichlorobenzene		ND	0.20	ppbv		ND	1.2	ug/m3
10061-02-6 110 trans-1,3-Dichloropropene ND 0.20 ppbv ND 0.90 ug/m3 100-41-4 106 Ethylbenzene 1.5 0.20 ppbv 6.5 0.87 ug/m3 622-96-8 120.2 4-Ethyltoluene ND 0.20 ppbv ND 0.98 ug/m3 76-13-1 186 Freon 113 3.6 0.20 ppbv ND 0.98 ug/m3 76-14-2 170 Freon 114 ND 0.20 ppbv ND 1.4 ug/m3 87-68-3 261 Hexachlorobutadiene ND 0.20 ppbv ND 2.1 ug/m3 75-09-2 84 Methylene chloride 1.9 0.20 ppbv B 6.5 0.69 ug/m3 1634-04-4 88 Methyl Tert Butyl Ether 3.7 0.20 ppbv 13 0.72 ug/m3 100-42-5 104 Styrene 2.3 0.20 ppbv 9.8 0.85 ug/m3	95-50-1	146	o-Dichlorobenzene		ND	0.20	ppbv		ND	1.2	ug/m3
100-41-4 106 Ethylbenzene 1.5 0.20 ppbv 6.5 0.87 ug/m3 622-96-8 120.2 4-Ethyltoluene ND 0.20 ppbv ND 0.98 ug/m3 76-13-1 186 Freon 113 3.6 0.20 ppbv B 27 1.5 ug/m3 76-14-2 170 Freon 114 ND 0.20 ppbv ND 1.4 ug/m3 87-68-3 261 Hexachlorobutadiene ND 0.20 ppbv ND 2.1 ug/m3 75-09-2 84 Methylene chloride 1.9 0.20 ppbv B 6.5 0.69 ug/m3 1634-04-4 88 Methyl Tert Butyl Ether 3.7 0.20 ppbv 13 0.72 ug/m3 100-42-5 104 Styrene 2.3 0.20 ppbv 9.8 0.85 ug/m3 79-34-5 166 1,1,2,2-Tetrachloroethane ND 0.20 ppbv ND 1.4 ug/m3 79-00-5 132 1,1,2-Trichloroethane ND 0.20 <td>106-46-7</td> <td>146</td> <td>p-Dichlorobenzene</td> <td></td> <td>0.18</td> <td>0.20</td> <td>ppbv</td> <td>J</td> <td>1.1</td> <td>1.2</td> <td>ug/m3</td>	106-46-7	146	p-Dichlorobenzene		0.18	0.20	ppbv	J	1.1	1.2	ug/m3
622-96-8 120.2 4-Ethyltoluene ND 0.20 ppbv ND 0.98 ug/m3 76-13-1 186 Freon 113 3.6 0.20 ppbv B 27 1.5 ug/m3 76-14-2 170 Freon 114 ND 0.20 ppbv ND 1.4 ug/m3 87-68-3 261 Hexachlorobutadiene ND 0.20 ppbv ND 2.1 ug/m3 75-09-2 84 Methylene chloride 1.9 0.20 ppbv B 6.5 0.69 ug/m3 1634-04-4 88 Methyl Tert Butyl Ether 3.7 0.20 ppbv 13 0.72 ug/m3 100-42-5 104 Styrene 2.3 0.20 ppbv 9.8 0.85 ug/m3 71-55-6 132 1,1,1-Trichloroethane 43.7 a 2.0 ppbv ND 1.4 ug/m3 79-04-5 166 1,1,2,2-Tetrachloroethane ND 0.20 ppbv ND 1.1<	10061-02-6	110	trans-1,3-Dichloropro	pene	ND	i 0.20	ppbv		ND	0.90	ug/m3
76-13-1 186 Freon 113 3.6 0.20 ppbv B 27 1.5 ug/m3 76-14-2 170 Freon 114 ND 0.20 ppbv ND 1.4 ug/m3 87-68-3 261 Hexachlorobutadiene ND 0.20 ppbv ND 2.1 ug/m3 75-09-2 84 Methylene chloride 1:9 0.20 ppbv B 6.5 0.69 ug/m3 1634-04-4 88 Methyl Tert Butyl Ether 3.7 0.20 ppbv 13 0.72 ug/m3 100-42-5 104 Styrene 2.3 0.20 ppbv 9.8 0.85 ug/m3 71-55-6 132 1,1,1-Trichloroethane 43.7 a 2.0 ppbv ND 1.4 ug/m3 79-34-5 166 1,1,2,2-Tetrachloroethane ND 0.20 ppbv ND 1.4 ug/m3 79-00-5 132 1,1,2-Trichloroethane ND 0.20 ppbv ND </td <td>100-41-4</td> <td>106</td> <td>Ethylbenzene</td> <td></td> <td>1.5</td> <td>0.20</td> <td>ppbv</td> <td></td> <td>6.5</td> <td>0.87</td> <td>ug/m3</td>	100-41-4	106	Ethylbenzene		1.5	0.20	ppbv		6.5	0.87	ug/m3
76-13-1 186 Freon 113 3.6 0.20 ppbv B 27 1.5 ug/m3 76-14-2 170 Freon 114 ND 0.20 ppbv ND 1.4 ug/m3 87-68-3 261 Hexachlorobutadiene ND 0.20 ppbv ND 2.1 ug/m3 75-09-2 84 Methylene chloride 1.9 0.20 ppbv B 6.5 0.69 ug/m3 1634-04-4 88 Methyl Tert Butyl Ether 3.7 0.20 ppbv 13 0.72 ug/m3 100-42-5 104 Styrene 2.3 0.20 ppbv 9.8 0.85 ug/m3 71-55-6 132 1,1,1-Trichloroethane 43.7 a 2.0 ppbv 9.8 0.85 ug/m3 79-34-5 166 1,1,2,2-Tetrachloroethane ND 0.20 ppbv ND 1.4 ug/m3 79-00-5 132 1,1,2-Trichloroethane ND 0.20 ppbv ND 1.1 ug/m3 120-82-1 181 1,2,4-Trichloroethylene	622-96-8	120.2	4-Ethyltoluene	j.	ND	0.20	ppbv		ND	0.98	ug/m3
76-14-2 170 Freon 114 ND 0.20 ppbv ND 1.4 ug/m3 87-68-3 261 Hexachlorobutadiene ND 0.20 ppbv ND 2.1 ug/m3 75-09-2 84 Methylene chloride 1.9 0.20 ppbv B 6.5 0.69 ug/m3 1634-04-4 88 Methyl Tert Butyl Ether 3.7 0.20 ppbv 13 0.72 ug/m3 100-42-5 104 Styrene 2.3 0.20 ppbv 9.8 0.85 ug/m3 71-55-6 132 1,1,1-Trichloroethane 43.7 a 2.0 ppbv 236 a 11 ug/m3 79-34-5 166 1,1,2,2-Tetrachloroethane ND 0.20 ppbv ND 1.4 ug/m3 79-00-5 132 1,1,2-Trichloroethane ND 0.20 ppbv ND 1.1 ug/m3 120-82-1 181 1,2,4-Trichloroethane ND 0.20 ppbv ND	76-13-1	186	Freon 113		3.6	0.20	ppbv	В	27	1.5	ug/m3
75-09-2 84 Methylene chloride 1.9 0.20 ppbv B 6.5 0.69 ug/m3 1634-04-4 88 Methyl Tert Butyl Ether 3.7 0.20 ppbv 13 0.72 ug/m3 100-42-5 104 Styrene 2.3 0.20 ppbv 9.8 0.85 ug/m3 71-55-6 132 1,1,1-Trichloroethane 43.7 ° 2.0 ppbv 236 ° 11 ug/m3 79-34-5 166 1,1,2,2-Tetrachloroethane ND 0.20 ppbv ND 1.4 ug/m3 79-00-5 132 1,1,2-Trichloroethane ND 0.20 ppbv ND 1.1 ug/m3 120-82-1 181 1,2,4-Trichlorobenzene ND 0.20 ppbv ND 1.5 ug/m3 95-63-6 120 1,2,4-Trimethylbenzene 0.38 0.20 ppbv 1.9 0.98 ug/m3 108-67-8 120 1,3,5-Trimethylbenzene 0.10 0.20 ppbv 1 0.49 0.98 ug/m3 127-18-4 164 Tetrachlor	76-14-2	170	Freon 114		ND	0.20	ppbv		ND	1.4	
1634-04-4 88 Methyl Tert Butyl Ether 3.7 0.20 ppbv 13 0.72 ug/m3 100-42-5 104 Styrene 2.3 0.20 ppbv 9.8 0.85 ug/m3 71-55-6 132 1,1,1-Trichloroethane 43,7 a 2.0 ppbv 236 a 11 ug/m3 79-34-5 166 1,1,2,2-Tetrachloroethane ND 0.20 ppbv ND 1.4 ug/m3 79-00-5 132 1,1,2-Trichloroethane ND 0.20 ppbv ND 1.1 ug/m3 120-82-1 181 1,2,4-Trichlorobenzene ND 0.20 ppbv ND 1.5 ug/m3 95-63-6 120 1,2,4-Trimethylbenzene 0.38 0.20 ppbv 1.9 0.98 ug/m3 108-67-8 120 1,3,5-Trimethylbenzene 0.10 0.20 ppbv 1 0.49 0.98 ug/m3 127-18-4 164 Tetrachloroethylene 2150 b 16 ppbv 14400 b 110 ug/m3	87-68-3	261	Hexachlorobutadiene	į	ND	0.20	ppbv		ND	2.1	ug/m3
100-42-5 104 Styrene 2.3 0.20 ppbv 9.8 0.85 ug/m3 71-55-6 132 1,1,1-Trichloroethane 43.7 a 2.0 ppbv 236 a 11 ug/m3 79-34-5 166 1,1,2,2-Tetrachloroethane ND 0.20 ppbv ND 1.4 ug/m3 79-00-5 132 1,1,2-Trichloroethane ND 0.20 ppbv ND 1.1 ug/m3 120-82-1 181 1,2,4-Trichlorobenzene ND 0.20 ppbv ND 1.5 ug/m3 95-63-6 120 1,2,4-Trimethylbenzene 0.38 0.20 ppbv 1.9 0.98 ug/m3 108-67-8 120 1,3,5-Trimethylbenzene 0.10 0.20 ppbv J 0.49 0.98 ug/m3 127-18-4 164 Tetrachloroethylene 2150 b 16 ppbv 14400 b 110 ug/m3	75-09-2		Methylene chloride			0.20	ppbv	В	6.5	0.69	ug/m3
71-55-6 132 1,1,1-Trichloroethane 43,7 ° 2 2.0 ppbv 236 ° 3 11 ug/m3 79-34-5 166 1,1,2,2-Tetrachloroethane ND 0.20 ppbv ND 1.4 ug/m3 79-00-5 132 1,1,2-Trichloroethane ND 0.20 ppbv ND 1.1 ug/m3 120-82-1 181 1,2,4-Trichlorobenzene ND 0.20 ppbv ND 1.5 ug/m3 95-63-6 120 1,2,4-Trimethylbenzene 0.38 0.20 ppbv 1.9 0.98 ug/m3 108-67-8 120 1,3,5-Trimethylbenzene 0.10 0.20 ppbv J 0.49 0.98 ug/m3 127-18-4 164 Tetrachloroethylene 2150 ° b 16 ppbv 14400 ° b 110 ug/m3	1634-04-4	88	Methyl Tert Butyl Eth	er	3.7	0.20	ppbv		13	0.72	ug/m3
79-34-5 166 1,1,2,2-Tetrachloroethane ND 0.20 ppbv ND 1.4 ug/m3 79-00-5 132 1,1,2-Trichloroethane ND 0.20 ppbv ND 1.1 ug/m3 120-82-1 181 1,2,4-Trichlorobenzene ND 0.20 ppbv ND 1.5 ug/m3 95-63-6 120 1,2,4-Trimethylbenzene 0.38 0.20 ppbv 1.9 0.98 ug/m3 108-67-8 120 1,3,5-Trimethylbenzene 0.10 0.20 ppbv J 0.49 0.98 ug/m3 127-18-4 164 Tetrachloroethylene 2150 b 16 ppbv 14400 b 110 ug/m3	100-42-5	104	Styrene			0.20			9.8	0.85	ug/m3
79-00-5 132 1,1,2-Trichloroethane ND 0.20 ppbv ND 1.1 ug/m3 120-82-1 181 1,2,4-Trichlorobenzene ND 0.20 ppbv ND 1.5 ug/m3 95-63-6 120 1,2,4-Trimethylbenzene 0.38 0.20 ppbv 1.9 0.98 ug/m3 108-67-8 120 1,3,5-Trimethylbenzene 0.10 0.20 ppbv J 0.49 0.98 ug/m3 127-18-4 164 Tetrachloroethylene 2150 b 16 ppbv 14400 b 110 ug/m3	71-55-6	132	1,1,1-Trichloroethane	9 5	43.7 a	2.0	ppbv		236 a	11	ug/m3
120-82-1 181 1,2,4-Trichlorobenzene ND 0.20 ppbv ND 1.5 ug/m3 95-63-6 120 1,2,4-Trimethylbenzene 0.38 0.20 ppbv 1.9 0.98 ug/m3 108-67-8 120 1,3,5-Trimethylbenzene 0.10 0.20 ppbv J 0.49 0.98 ug/m3 127-18-4 164 Tetrachloroethylene 2150 b 16 ppbv 14400 b 110 ug/m3	79-34-5	166	1,1,2,2-Tetrachloroeth	ane	ND	0.20	ppbv		ND	1.4	ug/m3
95-63-6 120 1,2,4-Trimethylbenzene 0.38 0.20 ppbv 1.9 0.98 ug/m3 108-67-8 120 1,3,5-Trimethylbenzene 0.10 0.20 ppbv J 0.49 0.98 ug/m3 127-18-4 164 Tetrachloroethylene 2150 b 16 ppbv 14400 b 110 ug/m3	79-00-5	132	1,1,2-Trichloroethane			0.20	ppbv		ND	1.1	ug/m3
108-67-8 120 1,3,5-Trimethylbenzene 0.10 0.20 ppbv J 0.49 0.98 ug/m3 127-18-4 164 Tetrachloroethylene 2150 b 16 ppbv 14400 b 110 ug/m3	120-82-1	181	1,2,4-Trichlorobenzen		egranista (n. 1884)		ppbv			1.5	ug/m3
127-18-4 164 Tetrachloroethylene 2150 b 16 ppbv 14400 b 110 ug/m3	95-63-6		1,2,4-Trimethylbenzer				ppbv			0.98	ug/m3
	108-67-8		1,3,5-Trimethylbenzer				ppbv	J		0.98	ug/m3
	127-18-4		Tetrachloroethylene	\$1. \$1	2150 b		ppbv		14400 ^b	110	ug/m3
	108-88-3	92	Toluene	Ŷ.	14.1	0.20	ppbv		53.0	0.75	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Lab Sample ID: E73778-3 Matrix: AIR - Air Method: TO-14/TO-15 Project: Reckson Associates, Fa			rmingdale, N)					
CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
19-01-6	130	Trichloroethylene	114 ^a	2.0	ppbv		606 a	11	ug/m3
15-69-4	136	Trichlorofluoromethane	2.4	0.20	ppbv		13	1.1	ug/m3
5-01-4	62	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
	106	m,p-Xylene	4.4	0.20	ppbv		19	0.87	ug/m3
5-47-6	106	o-Xylene	1.0	0.20	ppbv		4.3	0.87	ug/m3
330-20-7	106	Xylenes (total)	5.5	0.20	ppbv		24	0.87	ug/m3
CAS No.	Surre	gate Recoveries	Run# 1	Run# 2	Run# 3	I	Limits		

99% 101% 91% 70-130%

4-Bromofluorobenzene

460-00-4

⁽a) Result is from Run# 2

⁽b) Result is from Run# 3

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Client Sample ID: SG-4

Lab Sample ID: E73778-4

Matrix: Method:

Project:

AIR - Air

TO-14/TO-15

Reckson Associates, Farmingdale, NY

Date Sampled: 07/25/00 Date Received: 07/27/00

Percent Solids: n/a

	File ID	DF	Analyzed	Ву	Prep Date	Prep Batch	Analytical Batch
Run #1	Q9284.D	1	07/31/00	WG	n/a	n/a	VQ363
Run #2	Q9304.D	80	08/03/00	WG	n∕a	n/a	VQ364

Run #2	Q9304	4.D 80 08/03	3/00 WG	n/a		r	1/a 	VQ36)4 -
CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
71-43-2	78	Benzene	0.99	0.20	ppbv		3.2	0.64	ug/m3
74-83-9	94	Bromomethane	ND	0.20	ppbv		ND	0.77	ug/m3
108-90-7	112	Chlorobenzene	ND	0.20	ppbv		ND	0.92	ug/m3
75-00-3	64	Chloroethane	0.14	0.20	ppbv	J	0.37	0.52	ug/m3
67-66-3	118	Chloroform	0.97	0.20	ppbv		4.7	0.96	ug/m3
74-87-3	50	Chloromethane	ND	0.20	ppbv		ND	0.41	ug/m3
56-23-5	152	Carbon tetrachloride	0.19	0.20	ppbv	j	1.2	1.2	ug/m3
75-34-3	98	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.80	ug/m3
75-35-4	96	1,1-Dichloroethylene	0.80	0.20	ppbv		3.1	0.78	ug/m3
106-93-4	186	1,2-Dibromoethane	ND	0.20	ppbv		ND	் 1.5	ug/m3
107-06-2	98	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.80	ug/m3
78-87-5	112	1,2-Dichloropropane	ND	0.20	ppbv		ND	0.92	ug/m3
75-71-8	120	Dichlorodifluoromethane	0.88	0.20	ppbv		4.3	0.98	ug/m3
156-59-2	96	cis-1,2-Dichloroethylene	0.40	0.20	ppbv		1.6	0.78	ug/m3 -
10061-01-5	110	cis-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.90	ug/m3
541-73-1	146	m-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
95-50-1	146	o-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
106-46-7	146	p-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
10061-02-6	110	trans-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.90	ug/m3
100-41-4	106	Ethylbenzene	1.8	0.20	ppbv		7.8	0.87	ug/m3
622-96-8	120.2	2 4-Ethyltoluene	0.23	0.20	ppbv		1.1	0.98	ug/m3
76-13-1	186	Freon 113	3.5	0.20	ppbv	В	27	1.5	ug/m3
76-14-2	170	Freon 114	ND	0.20	ppbv		ND	1.4	ug/m3
87-68-3	261	Hexachlorobutadiene	ND	0.20	ppbv		ND	2.1	ug/m3
75-09-2	84	Methylene chloride	1.9	0.20	ppbv	В	6.5	0.69	ug/m3
1634-04-4	88	Methyl Tert Butyl Ether	0.99	0.20	ppbv		3.6	0.72	ug/m3
100-42-5	104	Styrene	2.7	0.20	ppbv		11	0.85	ug/m3
71-55-6	132	1,1,1-Trichloroethane	22.4	0.20	ppbv		121	$\frac{6}{2}$ 1.1	ug/m3
79-34-5	1 6 6	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	132	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	. 1.1	ug/m3
120-82-1	181	1,2,4-Trichlorobenzene	ND	0.20	ppbv		ND	1.5	ug/m3
95-63-6	120	1,2,4-Trimethylbenzene	0.46	0.20	ppbv		2.2	0.98	ug/m3
108-67-8	120	1,3,5-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
127-18-4	164	Tetrachloroethylene	1120 ^a	16	ppbv		7510 a	110	ug/m3
108-88-3	92	Toluene	13.9	0.20	ppbv		52.3	0.75	ug/m3
79-01-6	130	Trichloroethylene	40.4	0.20	ppbv	E	215	1.1	ug/m3

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Client Sample ID: SG-4

Lab Sample ID: E73778-4

Matrix:

AIR - Air

Date Sampled: 07/25/00

Date Received: 07/27/00

Method: Project:

TO-14/TO-15 Reckson Associates, Farmingdale, NY Percent Solids: n/a

CAS No.	MW	Compound	Result	RL	Units Q	Result	RL	Units
75-69-4 75-01-4	136 62 106 106	Trichlorofluoromethane Vinyl chloride m,p-Xylene o-Xylene	2.2 ND 5.4 1.4	0.20 0.20	ppbv ppbv ppbv ppbv	12 ND 23 6.1	0.51 0.87	ug/m3 ug/m3 ug/m3 ug/m3
1330-20-7	106	Xylenes (total)	6.7		ppbv	29	0.87	ug/m3

CAS No. Surrogate Recoveries Run#2 Limits Run#1

460-00-4 4-Bromofluorobenzene 70-130%

(a) Result is from Run# 2

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Client Sample ID: SG-5 Lab Sample ID: E737

Matrix:

E73778-5 AIR - Air

TO-14/TO-15

Date Sampled: 07/25/00
Date Received: 07/27/00
Percent Solids: n/a

Method: Project:

Reckson Associates, Farmingdale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q9285.D	1	07/31/00	WG	n/a	n/a	VQ363
Run #2	Q9374.D	10	08/08/00	WG	n/a	n/a	VQ365
Run #3	Q9305.D	. 80	08/03/00	WG	n/a	n/a	VQ364

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
71-43-2	78	Benzene	1.3	0.20	ppbv		4.1	0.64	ug/m3
74-83-9	94	Bromomethane	ND	0.20	ppbv		ND	0.77	ug/m3
108-90-7	112	Chlorobenzene	ND	0.20	ppbv		ND	0.92	ug/m3
75-00-3	64	Chloroethane	0.50	0.20	ppbv		1.3	0.52	ug/m3
67-66-3	118	Chloroform	1.8	0.20	ppbv		8.7	0.96	ug/m3
74-87-3	50	Chloromethane	ND	0.20	ppbv		ND	0.41	ug/m3
56-23-5	152	Carbon tetrachloride	0.21	0.20	ppbv		1.3	1.2	ug/m3
75-34-3	98	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.80	ug/m3
75-35-4	96	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.78	ug/m3
106-93-4	186	1,2-Dibromoethane	ND	0.20	ppbv		ND	1.5	ug/m3
107-06-2	98	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.80	ug/m3
78-87-5	112	1,2-Dichloropropane	ND	0.20	ppbv		ND	0.92	ug/m3
75-71-8	120	Dichlorodifluoromethane	3.5	0.20	ppbv		17	0.98	ug/m3
156-59-2	96	cis-1,2-Dichloroethylene	0.16	0.20	ppbv	J	0.63	0.78	ug/m3
10061-01-5	110	cis-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.90	ug/m3
541-73-1	146	m-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
95-50-1	146	o-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
106-46-7	146	p-Dichlorobenzene	0.25	0.20	ppbv		1.5	1.2	ug/m3
10061-02-6	110	trans-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.90	ug/m3
100-41-4	106	Ethylbenzene	1.8	0.20	ppbv		7.8	0.87	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.26	0.20	ppbv		1.3	0.98	ug/m3
76-13-1	186	Freon 113	3.8	0.20	ppbv	В	29	1.5	ug/m3
76-14-2	170	Freon 114	ND	0.20	ppbv		ND	1.4	ug/m3
87-68-3	261	Hexachlorobutadiene	ND	0.20	ppbv		ND	2.1	ug/m3
75-09-2	84	Methylene chloride	1.6	0.20	ppbv	В	5.5	0.69	ug/m3
1634-04-4	88	Methyl Tert Butyl Ether	3.0	0.20	ppbv		11	0.72	ug/m3
100-42-5	104	Styrene	2.9	0.20	ppbv		12	0.85	ug/m3
71-55-6	132	1,1,1-Trichloroethane	13.0	0.20	ppbv		70.2	: 1.1	ug/m3
79-34-5	166	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	132	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	181	1,2,4-Trichlorobenzene	ND	0.20	ppbv		ND	1.5	ug/m3
95-63-6	120	1,2,4-Trimethylbenzene	0.59	0.20	ppbv		2.9	0.98	ug/m3
108-67-8	120	1,3,5-Trimethylbenzene	0.17	0.20	ppbv		0.83	0.98	ug/m3
127-18-4	164	Tetrachloroethylene	2560 a	16	ppbv			110	ug/m3
108-88-3	92	Toluene	17.8	0.20	ppbv		67.0	0.75	ug/m3

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Client Sample ID: SG-5 Lab Sample ID: E73778-5 Matrix: AIR - Air Method: TO-14/TO-15 Project: Reckson Associates, F		Date Sampled: 07/25/00 Date Received: 07/27/00 Percent Solids: n/a						
CAS No.	MW	Compound	Result	RL	Units (Q Result	RL	Units
79-01-6	130	Trichloroethylene	50.2 b	2.0	ppbv	267 b	11	ug/m3
75-69-4	136	Trichlorofluoromethane	1,3	0.20	ppbv	7.2	1.1	ug/m3
75-01-4	62	Vinyl chloride	ND	0.20	ppbv	ND	0.51	ug/m3
	106	m,p-Xylene	5.7	0.20	ppbv	25	0.87	ug/m3
95-47-6	106	o-Xylene	1.5	0.20	ppbv	6.5	0.87	ug/m3
1330-20-7	106	Xylenes (total)	7.2	0.20	ppbv	31	0.87	ug/m3
CAS No.	Surre	ogate Recoveries	Run#1 Run	# 2	Run#3	Limits		

100% 99% 91% 70-130%

4-Bromofluorobenzene

460-00-4

⁽a) Result is from Run# 3

⁽b) Result is from Run# 2

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound

Client Sample ID: SG-6

Lab Sample ID: E73778-6
Matrix: AIR - Air
Method: TO-14/TO

TO-14/TO-15

Peckson Associates Farmingdale NV

Date Sampled: 07/25/00
Date Received: 07/27/00
Percent Solids: n/a

Project: Reckson Associates, Farmingdale, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q9286.D	1	07/31/00	WG	n/a	n/a	VQ363
Run #2	Q9306.D	80	08/03/00	WG -	п/а	n/a	VQ364

CAS No.	MW	Compound	Result	RL	Units Q	Result	RL	Units
71-43-2	78	Benzene	0.71	0.20	ppbv	2.3	0.64	ug/m3
74-83-9	94	Bromomethane	ND	0.20	p p bv	ND	0.77	ug/m3
108-90-7	112	Chlorobenzene	ND	0.20	ppbv	ND	0.92	ug/m3
75-00-3	64	Chloroethane	ND	0.20	ppbv	ND	0.52	ug/m3
67-66-3	118	Chloroform	1.8	0.20	ppbv	8.7	0.96	ug/m3
74-87-3	50	Chloromethane	0.39	0.20	ppbv	0.80	0.41	ug/m3
56-23-5	152	Carbon tetrachloride	0.24	0.20	ppbv	1.5	1.2	ug/m3
75-34-3	98	1,1-Dichloroethane	0.35	0.20	ppbv	1.4	0.80	ug/m3
75-35-4	96	1,1-Dichloroethylene	2.0	0.20	ppbv	7.8	0.78	ug/m3
106-93-4	186	1,2-Dibromoethane	ND	0.20	ppbv	ND	1.5	ug/m3
107-06-2	98	1,2-Dichloroethane	ND	0.20	ppbv	ND	0.80	ug/m3
78-87-5	112	1,2-Dichloropropane	ND	0.20	ppbv	ND	0.92	ug/m3
75-71-8	120	Dichlorodifluoromethane	1.5	0.20	ppbv	7.4	0.98	ug/m3
156-59-2	96	cis-1,2-Dichloroethylene	110 a	16	ppbv	432 a	63	ug/m3
10061-01-5	110	cis-1,3-Dichloropropene	ND	0.20	ppbv	ND	0.90	ug/m3
541-73-1	146	m-Dichlorobenzene	ND	0.20	ppbv	ND	1.2	ug/m3
95-50-1	146	o-Dichlorobenzene	ND	0.20	ppbv	ND	1.2	ug/m3
106-46-7	146	p-Dichlorobenzene	ND	0.20	ppbv	ND	1.2	ug/m3
10061-02-6	110	trans-1,3-Dichloropropene	ND	0.20	ppbv	ND	0.90	ug/m3
100-41-4	106	Ethylbenzene	1.3	0.20	ppbv	5.6	0.87	ug/m3
622-96-8		24-Ethyltoluene	0.16	0.20	ppbv J	0.79	0.98	ug/m3
76-13-1	186	Freon 113	3.5	0.20	ppbv B	27	1.5	ug/m3
76-14-2	170	Freon 114	ND	0.20	ppbv	ND	1.4	ug/m3
87-68-3	261	Hexachlorobutadiene	ND	0.20	ppbv	ND	2.1	ug/m3
75-09-2	84	Methylene chloride	1.8	0.20	ppbv B	6.2	0.69	ug/m3
1634-04-4	88	Methyl Tert Butyl Ether	0.90	0.20	ppbv	3.2	0.72	ug/m3
100-42-5	104	Styrene	1.9	0.20	ppbv	8.1	0.85	ug/m3
71-55-6	132	1,1,1-Trichloroethane	9.5	0.20	ppbv	51	1.1	ug/m3
79-34-5	166	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv	ND	1.4	ug/m3
79-00- <i>5</i>	132	1,1,2-Trichloroethane	ND	0.20	ppbv	ND	1.1	ug/m3
120-82-1	181	1,2,4-Trichlorobenzene	ND	0.20	ppbv	ND	1.5	ug/m3
95-63-6	120	1,2,4-Trimethylbenzene	0.33	0.20	ppbv	1.6	0.98	ug/m3
108-67-8	120	1,3,5-Trimethylbenzene	ND	0.20	ppbv	ND	0.98	ug/m3
127-18-4	164	Tetrachloroethylene	2220 ^a	16	ppbv	14900 a	110	ug/m3
108-88-3	92	Toluene	8.3	0.20	ppbv	31	0.75	ug/m3
79-01-6 ————	130	Trichloroethylene	237 ^a	16	ppbv 	1260 a	85	ug/m3

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Matrix: Method: Project:		AIR - Air TO-14/TO-15 Reckson Associates, Fara	ningdale, NY	_	ate Received ercent Solids)	
CAS No.	MW	Compound	Result	RL	Units Q	Result	RL	Units
5-69-4	136	Trichlorofluoromethane	0,52	0.20	ppbv	2.9	1.1	ug/m3
5-01-4	62	Vinyl chloride	ND	0.20	ppbv	ND	0.51	ug/m3
	106	m,p-Xylene	3.6	0.20	ppbv	16	0.87	ug/m3
5-47-6	106	o-Xylene	0.91	0.20	ppbv	3.9	0.87	ug/m3
330-20-7	106	Xylenes (total)	4.5	0.20	ppbv	20	0.87	ug/m3

101% 88%

70-130%

4-Bromofluorobenzene

460-00-4

⁽a) Result is from Run# 2

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Client Sample ID: SG-7

Lab Sample ID: E73778-7 Matrix: AIR - Air

Method: Project: AIR - Air

TO-14/TO-15

Reckson Associates, Farmingdale, NY

Date Sampled: 07/25/00 **Date Received:** 07/27/00

Percent Solids: n/a

	File ID	DF	Analyzed	Ву	Prep Date	Prep Batch	Analytical Batch
Run #1	Q9322.D	80	08/04/00	WG	n/a	n/a	VQ364
Run #2	Q9323.D	1600	08/04/00	WG	n/a	n/a	VQ364

CAS No.	MW	Compound	Result	RL	Units Q	Result	RL	Units
71-43-2	78	Benzene	ND	16	ppbv	ND	<u>.</u> 51	ug/m3
74-83-9	94	Bromomethane	ND	16	ppbv	ND	62	ug/m3
108-90-7	112	Chlorobenzene	ND	16	ppbv	ND	. 73	ug/m3
75-00-3	64	Chloroethane	ND	16	ppbv	ND	42	ug/m3
67-66-3	118	Chloroform	19.2	16	ppbv	92.7	. 77	ug/m3
74-87-3	50	Chloromethane	ND	16	ppbv	ND	33	ug/m3
56-23-5	152	Carbon tetrachloride	ND	16	ppbv	ND	. 99	ug/m3
75-34-3	98	1,1-Dichloroethane	ND	16	ppbv	ND	64	ug/m3
75-35-4	96	1,1-Dichloroethylene	ND	16	ppbv	ND	63	ug/m3
106-93-4	186	1,2-Dibromoethane	ND	16	ppbv	ND	120	ug/m3
107-06-2	98	1,2-Dichloroethane	ND	. 16	ppbv	ND	64	ug/m3
78-87-5	112	1,2-Dichloropropane	ND	16	ppbv	ND	73	ug/m3
75-71-8	120	Dichlorodifluoromethane	ND.	16	ppbv	ND	78	ug/m3
156-59-2	96	cis-1,2-Dichloroethylene	131	16	ppbv	514	. 63	ug/m3
10061-01-5	110	cis-1,3-Dichloropropene	ND	16	ppbv	ND	72	ug/m3
541-73-1	146	m-Dichlorobenzene	ND	16	ppbv	ND	96	ug/m3
95-50-1	146	o-Dichlorobenzene	ND	16	ppbv	ND	. ∶96	ug/m3
106-46-7	146	p-Dichlorobenzene	ND ~	16	ppbv	ND	96	ug/m3
10061-02-6	110	trans-1,3-Dichloropropene	ND	16	ppbv	ND	÷ 72	ug/m3
100-41-4	106	Ethylbenzene	ND	16	ppbv	ND	69	ug/m3
622-96-8		24-Ethyltoluene	ND	16	ppbv	ND	79	ug/m3
76-13-1	186	Freon 113	ND	. 16	ppbv	ND	120	ug/m3
76-14-2	170	Freon 114	ND	16	ppbv	ND	9 110	ug/m3
87-68-3	261	Hexachlorobutadiene	ND	16	ppbv	ND	170	ug/m3
75-09-2	84	Methylene chloride	ND	16	ppbv	ND	ੂੰ 5 5	ug/m3
1634-04-4	88	Methyl Tert Butyl Ether	ND	16	ppbv	ND	ຸ 58	ug/m3
100-42-5	104	Styrene	ND	16	ppbv	ND	68	ug/m3
71-55-6	132	1,1,1-Trichloroethane	77.8	16	ppbv	420	86	ug/m3
79-34-5	166	1,1,2,2-Tetrachloroethane	ND	16	ppbv	ND	110	ug/m3
79-00-5	132	1,1,2-Trichloroethane	ND	16	ppbv	ND	86	ug/m3
120-82-1	181	1,2,4-Trichlorobenzene	ND	16	ppbv	ND	120	ug/m3
95-63-6	120	1,2,4-Trimethylbenzene	ND	16	ppbv	ND	78	ug/m3
108-67-8	120	1,3,5-Trimethylbenzene	ND	16	ppbv	ND	78	ug/m3
127-18-4	164	Tetrachloroethylene	60700 ^a	320	ppbv	407000 ^a	2100	ug/m3
108-88-3	92	Toluene	40.8	16	ppbv	154	: 60	ug/m3
79-01-6	130	Trichloroethylene	1170	16	ppbv	6220	85	ug/m3

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Client Sam Lab Sampl Matrix: Method: Project:	_	SG-7 E73778-7 AIR - Air TO-14/TO-15 Reckson Associates, Fa	armingdale, l]	Date Sampled: 07/25/00 Date Received: 07/27/00 Percent Solids: n/a							
CAS No.	MW	Compound	Resu	lt RL	Units	Q	Result	RL	Units			
75-69-4	136	Trichlorofluoromethane	ND	16	ppbv		ND	89	ug/m3			
75-01-4	62	Vinyl chloride	ND	16	ppbv		ND	40	ug/m3			
	106	m,p-Xylene	ND	16	ppbv		ND	69	ug/m3			
95-47-6	106	o-Xylene	ND	16	ppbv		ND	69	ug/m3			
1330-20-7	106	Xylenes (total)	ND	16	ppbv		ND	69	ug/m3			
CAS No.	Surr	ogate Recoveries	Run# 1	Run# 2	Limits							
460-00-4	4-Bro	omofluorobenzene	95%	87%	70-130%							

⁽a) Result is from Run# 2

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Client Sample ID: SG-8 Lab Sample ID:

Matrix: Method: E73778-8 AIR - Air

TO-14/TO-15

Date Sampled: 07/25/00 Date Received: 07/27/00

Percent Solids: n/a

Project:

Reckson Associates, Farmingdale, NY

	File ID	DF	Analyzed	Ву	Prep Date	Prep Batch	Analytical Batch
Run #1	Q9325.D	40	08/04/00	WG	n/a	n/a	VQ364
Run #2	Q9326.D	400	08/04/00	WG	n/a	n/a	VQ364

Kuti #2	Q9320	J.D 400 00/04	700 W.G				1/ a 	VQ3	
CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
71-43-2	78	Benzene	ND	8.0	ppbv		ND	26	ug/m3
74-83-9	94	Bromomethane	ND	8.0	ppbv		ND	31	ug/m3
108-90-7	112	Chlorobenzene	ND	8.0	ppbv		ND	37	ug/m3
75-00-3	64	Chloroethane	ND	8.0	ppbv		ND	21	ug/m3
67-66-3	118	Chloroform	ND	8.0	ppbv		ND	39	ug/m3
74-87-3	50	Chloromethane	ND	8.0	ppbv		ND	16	ug/m3
56-23-5	152	Carbon tetrachloride	ND	ຶ 8.0	ppbv		ND	50	ug/m3
75-34-3	98	1,1-Dichloroethane	ND	8.0	ppbv		ND	32	ug/m3
75-35-4	96	1,1-Dichloroethylene	ND	8.0	ppbv		ND	31	ug/m3
106-93-4	186	1,2-Dibromoethane	ND	8.0	ppbv		ND	: 61	ug/m3
107-06-2	98	1,2-Dichloroethane	ND	8.0	ppbv		ND	: 32	ug/m3
78-87-5	112	1,2-Dichloropropane	ND	8.0	ppbv		ND	37	ug/m3
75-71-8	120	Dichlorodifluoromethane	ND	8.0	ppbv		ND	39	ug/m3
156-59-2	96	cis-1,2-Dichloroethylene	32.5	8.0	ppbv		128	31	ug/m3
10061-01-5	110	cis-1,3-Dichloropropene	ND	8.0	ppbv		ND	36	ug/m3
541-73-1	146	m-Dichlorobenzene	ND	8.0	ppbv		ND	48	ug/m3
95-50-1	146	o-Dichlorobenzene	ND	8.0	ppbv		ND	48	ug/m3
106-46-7	146	p-Dichlorobenzene	ND	8.0	ppbv		ND	48	ug/m3
10061-02-6	110	trans-1,3-Dichloropropene	ND	8.0	ppbv		ND	36	ug/m3
100-41-4	106	Ethylbenzene	ND	8.0	ppbv		ND	35	ug/m3
622-96-8	120.2	24-Ethyltoluene	ND	₹8.0	ppbv		ND	39	ug/m3
76-13-1	186	Freon 113	22.5	8.0	ppbv	В	171	61	ug/m3
76-14-2	170	Freon 114	ND	8.0	ppbv		ND	56	ug/m3
87-68-3	261	Hexachlorobutadiene	ND	8.0	ppbv		ND	85	ug/m3
75-09-2	84	Methylene chloride	ND	8.0	ppbv		ND	27	ug/m3
1634-04-4	88	Methyl Tert Butyl Ether	ND	8.0	ppbv		ND	29	ug/m3
100-42-5	104	Styrene	ND	8.0	ppbv		ND	34	ug/m3
71-55-6	132	1,1,1-Trichloroethane	111	8.0	ppbv		599	43	ug/m3
79-34-5	166	1,1,2,2-Tetrachloroethane	ND.	8.0	ppbv		ND	54	ug/m3
79-00-5	132	1,1,2-Trichloroethane	ND	8.0	ppbv		ND	43	ug/m3
120-82-1	181	1,2,4-Trichlorobenzene	ND	0.8	ppbv		ND	59	ug/m3
95-63-6	120	1,2,4-Trimethylbenzene	ND	8.0	ppbv		ND	39	ug/m3
108-67-8	120	1,3,5-Trimethylbenzene	ND	8.0	ppbv		ND	39	ug/m3
127-18-4	164	Tetrachloroethylene	9830 a	80	ppbv		65900 ª	540	ug/m3
108-88-3	92	Toluene	10.7	8.0	ppbv		40.3	30	ug/m3
79-01-6	130	Trichloroethylene	177	8.0	ppbv	:	941	42	ug/m3

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Client Sample ID:	SG-8		
Lab Sample ID:	E73778-8	Date Sampled:	07/25/00
Matrix:	AIR - Air	Date Received:	07/27/00
Method:	TO-14/TO-15	Percent Solids:	n/a
Project:	Reckson Associates, Farmingdale, NY		

CAS No.	MW Compound	Result	RL	Units Q	Result	RL	Units
75-69-4	136 Trichlorofluoromethane	e ND	8.0	ppbv	ND	44	ug/m3
75-01-4	62 Vinyl chloride	ND	8.0	ppbv	ND	20	ug/m3
	106 m,p-Xylene	ND	8.0	ppbv	ND	35	ug/m3
95-47-6	106 o-Xylene	ND	8.0	ppbv	ND	35	ug/m3
1330-20-7	106 Xylenes (total)	ND	8.0	ppbv	ND	35	ug/m3
CAS No.	Surrogate Recoveries	Run#1 Run	# 2	Limits			
460-00-4	4-Bromofluorobenzene	97% 90%		70-130%			

⁽a) Result is from Run# 2

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Client Sample ID: SG-9 Lab Sample ID: E73778-9

Lab Sample ID: Matrix:

AIR - Air

Date Sampled: 07/25/00 Date Received: 07/27/00 Percent Solids: n/a

Method: Project:

TO-14/TO-15

Reckson Associates, Farmingdale, NY

File ID DF Analyzed By Prep Date Prep Batch **Analytical Batch** Run #1 Q9332.D 40 08/04/00 WG VQ364 n/a n/a Run #2

								
CAS No.	MW	Compound	Result	RL	Units (Q Result	RL	Units
71-43-2	78	Benzene	ND	8.0	ppbv	ND	26	ug/m3
74-83-9	94	Bromomethane	ND	8.0	ppbv	ND	31	ug/m3
108-90-7	112	Chlorobenzene	ND	8.0	ppbv	ND	37	ug/m3
75-00-3	64	Chloroethane	ND	8.0	ppbv	ND	21	ug/m3
67-66-3	118	Chloroform	ND	8.0	ppbv	ND	39	ug/m3
74-87-3	50	Chloromethane	ND	8.0	ppbv	ND	16	ug/m3
56-23-5	152	Carbon tetrachloride	ND	8.0	ppbv	ND	50	ug/m3
75-34-3	98	1,1-Dichloroethane	ND	8.0	ppbv	ND	32	ug/m3
75-35-4	96	1,1-Dichloroethylene	ND	8.0	ppbv	ND	31	ug/m3
106-93-4	186	1,2-Dibromoethane	ND	8.0	ppbv	ND	61	ug/m3
107-06-2	98	1,2-Dichloroethane	ND	8.0	ppbv	ND	32	ug/m3
78-87 <i>-</i> 5	112	1,2-Dichloropropane	ND	8.0	ppbv	ND	37	ug/m3
75-71-8	120	Dichlorodifluoromethane	ND	8.0	ppbv	ND	39	ug/m3
156-59-2	96	cis-1,2-Dichloroethylene	ND	8.0	ppbv	ND	31	ug/m3
10061-01-5	110	cis-1,3-Dichloropropene	ND	8.0	ppbv	ND	36	ug/m3
541-73-1	146	m-Dichlorobenzene	ND	8.0	ppbv	ND	48	ug/m3
95-50-1	146	o-Dichlorobenzene	ND	8.0	ppbv	ND	48	ug/m3
106-46-7	146	p-Dichlorobenzene	ND .	8.0	ppbv	ND	48	ug/m3
10061-02-6	110	trans-1,3-Dichloropropene	ND	8.0	ppbv	ND	36	ug/m3
100-41-4	106	Ethylbenzene	8.4	8.0	ppbv	36	35	ug/m3
622-96-8	120.2	24-Ethyltoluene	ND	8.0	ppbv	ND	39	ug/m3
76-13-1	186	Freon 113	24.4	8.0	ppbv E	186	61	ug/m3
76-14-2	170	Freon 114	ND	8.0	ppbv	ND	56	ug/m3
87-68-3	261	Hexachlorobutadiene	ND	8.0	ppbv	ND	85	ug/m3
75-09-2	84	Methylene chloride	9.3	8.0	ppbv E	32	27	ug/m3
1634-04-4	88	Methyl Tert Butyl Ether	ND	ું 8.0	ppbv	ND	29	ug/m3
100-42-5	104	Styrene	ND	8.0	ppbv	ND	34	ug/m3
71-55-6	132	1,1,1-Trichloroethane	ND	8.0	ppbv	ND	43	ug/m3
79-34-5	166	1,1,2,2-Tetrachloroethane	ND	8.0	ppbv	ND	54	ug/m3
79-00-5	132	1,1,2-Trichloroethane	ND	8.0	ppbv	ND	43	ug/m3
120-82-1	181	1,2,4-Trichlorobenzene	ND	8.0	ppbv	ND	59	ug/m3
95-63-6	120	1,2,4-Trimethylbenzene	6.5	8.0	ppbv J	32	39	ug/m3
108-67-8	120	1,3,5-Trimethylbenzene	ND	8.0	ppbv	ND	39	ug/m3
127-18-4	164	Tetrachloroethylene	ND	8.0	ppbv	ND	54	ug/m3
108-88-3	92	Toluene	1600	8.0	ppbv	6020	∴ 3 0	ug/m3
79-01-6	130	Trichloroethylene	ND	§ 8.0	ppbv	ND	42	ug/m3

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Report of Analysis

Page 2 of 2

Client Sam Lab Sampl Matrix: Method: Project:	•	E73778-9 AIR - Air TO-14/TO-15 Reckson Associates, F.	armingdale, l	- - -	Date Samp Date Receiv Percent Sol	ved:	07/27/00			
CAS No.	MW	Compound	Resu	lt RL	Units	Q	Result	RL	Units	
75-69-4	136	Trichlorofluoromethane	ND	8.0	ppbv		ND	44	ug/m3	
75-01-4	62	Vinyl chloride	ND	8.0	ppbv		ND	20	ug/m3	
•	106	m,p-Xylene	25.4	8.0	ppbv		110	35	ug/m3	
95-47-6	106	o-Xylene	7.9	8.0	ppbv	J	34	35	ug/m3	
1330-20-7	106	Xylenes (total)	33,3	8.0	ppbv		144	35	ug/m3	
CAS No.	Surr	ogate Recoveries	Run# 1	Run# 2	Limits					
460-00-4	4-Bro	omofluorobenzene	94%		70-130%					

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



CHAIN OF CUSTODY

FRESH PONDS CORPORATE VILLAGE, BUILDING B 2235 ROUTE 130, DAYTON, NJ 08810 732-329-0200 FAX: 732-329-3499/3480

ACCUTEST JOB #:	12	
ACCUTEST QUOTE #:		

	CLIENT INFOR	RMATION	Special manager		FACI	LITY INFO	_					A	NALYT	ICAL IN	FORM.	ATION	MONE)		MATRIX CODES
NAME 100 ADDRESS Last CITY,	is Ker Halsté Orange	Ser Gro Stre UI C STATE 28-1960 ×	et 7019 ZIP 508	PROJECT N PROJECT N FAX #	16 s AME AVUL 56- 0.	ing 8	A: -ule 53	5500 -, 1 4 -42		, ————————————————————————————————————	METHEN TO-14								DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE OI - OIL LIQ - OTHER LIQUID SOL - OTHER
ACCUTEST SAMPLE#	FIELD ID / PC	INT OF COLLECT!	ON	DATE	TIME	SAMPLED BY:	MATRIX	- W L	RESEF HOWN	NONE NONE	EPA								SOLID:
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-2	SG-2		1098 FC	1	1614	1	SV	1		X	ΙÝ	\nearrow							
-7	56-3		169 FC	7	1623		52	1		X	X								
-4	SG-4		180 FC		1627		v'2	1		X	X								
-3-	50-5		164 FC		1632		SV	ı		X	X				X				(BS
-6	56-6		194 FC		1637		SV	1		X	X								
・ヌ	56-7		093 FC		1642		SV	1		X	X								
%	56-8	AC	91 FC		1649		SV	1		X	X								
-9	56-9	Α	134 FC	1	1655		SV	1		X	X	1							
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C	DATA TURNAROUNI	DINFORMATION			DATA DEL	IVERABL	E INFO	RMATI	ON	<u>. ' '</u>		•	CON	MENTS	/REMA	RKS	- ASSA	ÇÇ.	福州和沙州
21 DAYS STANDARD APPROVED BY: 14 DAYS RUSH 7 DAYS EMERGENCY OTHER 21 DAY TURNAROUND HARDCOPY, EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED				DATA DELIVERABLE INFORMATION NJ REDUCED COMMERCIAL "A" COMMERCIAL "B" COMMERCIAL "B" STATE FORMS DISK DELIVERABLE OTHER (SPECIFY)					<u></u>	in,	oles t	co co	ng llect	-e0 7.25.	.5 ' 0 (Ve)	r 6	4) 4) 4) 7.26.00)		
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RELINQUISHED	BY:	DATE TIME:	RECEIVED E	BY:		SEAL					PRI	ESERVE	WHERE	APPLICAL	BLE		ONICE		TEMPERATURE



GC/MS Analysis Case Narrative/Conformance/Non-Conformance Summary

Fra	ction VT0145TD	NO_	YES
1.	Chromatograms Labeled/Compounds Identified (Field Samples and Method Blanks)		
2.	GC/MS Tune Meet Criteria		_ ~
3.	GC/MS Turning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 series.		
4.	GC/MS Calibration - Initial and Continuing Calibration Meet Method Requirements		
5.	GC/MS Calibration Requirements		
	a. Calibration Check Compounds		
	b. System Performance Check Compounds		V
6.	Blank Contamination		
	If yes, the sample result is qualified with a "B".		
7.	Surrogate Recoveries Meet Criteria		~
٠	If the requirement is not met, refer to the Surrogate Summary for comment.		
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria		NA
	If the requirement is not met, refer to MS/MSD Summary for comment.		•
9.	Internal Standard Area/Retention Time Shift Meet Criteria		
	If the requirement is not met, refer to the Internal Standard Summary for comment.		,/
10.	Extraction Holding Time Met		NA
	If the holding time is not met, refer to the Sample Result page for comment.		
11:	Analysis Holding Time Met		
	If the holding time is not met, refer to the Sample Result page for comment.		•
12.	Volatile Sample Preservation – pH should be < 2. List any non-compliant samples below:		
Add	ditional Comments:		- .
_	Review Signature: Denedetta Popor Date: 8/18/20	000	

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