

ER PROGRAM DATA ASSESSMENT  
SUMMARY REPORT FORM

Batch No. E88-3369/4th Quarter 1988 Site Area 2 - 881 Hillside  
 Laboratory RFP 881 General Labs No. of Samples/Matrix 16/Water  
 SOW # 7/87 Reviewer Org. TechLaw  
 Sample Numbers 43-87, 52-87, 45-87, 70-86, 55-86, 55-86D, 69-86, 4-87, 9-74, 10-74, 3-81, 8-87, 1-87, 2-87, 62-86, 5-87.

Data Assessment Summary

	VOA	Comments
1. Holding Times	<u>V</u>	<u>Within 40 CFR 136 holding times.</u>
2. GC/MS Tune/Instr. Perf.	<u>V</u>	<u>Some GC/MS tune data does not match summaries.</u>
3. Calibrations	<u>A</u>	<u>Initial (2 TCL out 10/24, 4 TCL out 11/20) Continuing (2CCC out, %D 25 TCL out Total, 2-butanone&lt;.05+J/-R).</u>
4. Blanks	<u>A</u>	<u>Chloroform contamination, methylene chloride and toluene in 11/22/88 blank.</u>
5. Surrogates	<u>A</u>	<u>43-87 (+J)/non-detect (R) 9-74 and 10-74X50 Dil (+J/non-detect UJ)</u>
6. Matrix Spike/Dup.	<u>V</u>	
7. Other QC	<u>A</u>	<u>Methylene chloride, acetone, 2-butanone, trichloroethene contamination in trip and field blank.</u>
8. Internal Standards	<u>V</u>	
9. Compound Identification	<u>V</u>	
10. System Performance	<u>A</u>	<u>1) Chloroform, Methylene chloride, Toluene blank contamination. 2) Surr. out (43-87, 9-74, 10-74X50). 3) Calib. %D, 25 TCL out.</u>
11. Overall Assessment	<u>A</u>	<u>Date acceptable, with qualifications.</u>

V = Data had no problems.  
 A = Data acceptable but qualified due to problems.  
 R = Data rejected.  
 X = Problems, but do not affect data.

Data Quality: Data contained in this batch were reviewed and found to be acceptable with qualifications. Acceptable, qualified data may be used provided that individual values impacted by the "Action Items" listed below are appropriately flagged. (Refer to attached Results Summary Table).

"REVIEWED FOR CLASSIFICATION

By R. B. Hoffman

Date 7-11-89

ADMIN RECORD

1 REVIEWED FOR CLASSIFICATION/UCNI

By George H. Setlock

Date 6/27/90

A-DU01-000037

**Action Items:** 1) Initial Calibration: Chloromethane values for 55-86, 55-86D, 69-86, 4-87, 9-74, 9-74X50 Dilution, 10-74, 10-74X50 Dilution, 3-87, 8-87, 1-87, and associated Trip and Field Blanks are estimated and undetected (UJ) because the percent relative standard deviation values (RSD) were excessively high.

Chloromethane and Chloroethane non-detect values for 2-87, 62-86, 5-87, and associated Trip and Field Blanks are rejected because the percent RSD was >50%.

2) Continuing Calibration: Chloromethane and Chloroethane non-detect values for 43-87, 43-87X100 Dilution, 52-87, 45-87, 70-86, and associated Trip and Field Blanks are rejected (R) because the % difference between the initial and continuing calibration was >50%. Chloroethane non-detect values for samples 55-86, 55-86D, 69-86, 4-87, 9-74, 10-74, 3-87, 8-87, 2-87, 62-86, 5-87, and associated Trip and Field Blanks are rejected (R) because the % difference between the initial and continuing calibrations was >50%. Non-detect values for Bromomethane, 4-Methyl-2-Pentanone, and Ethylbenzene are estimated and undetected (UJ) for samples 2-87, 62-86, 5-87 and associated Trip and Field Blanks (all run on 11/22/88), because the % difference between initial and continuing calibration was >25%. The positive Tetrachloroethene value for sample 62-86 is estimated because the % difference between the initial and continuing calibration was >25%. CCC (Vinyl Chloride) % difference value was >25% for the continuing calibration run on 10/25/88. CCC (Ethylbenzene) % difference value was >25% for the continuing calibration run on 11/22/88.

3) Blanks: Chloroform was found in all reagent blanks. As a result, all positive values were estimated and undetected (UJ). Methylene Chloride and Toluene was found in the reagent blank run on 11/22/88. All positive values for methylene chloride and toluene are estimated and undetected (UJ).

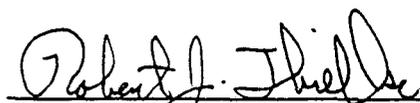
4) Surrogates: Surrogate recovery was >10% but less than the lower recovery criteria for samples 9-74 and 10-74X50 Dilution. All positive values are estimated (J) and all non-detects are estimated and undetected (UJ). Surrogate recovery was <10% for sample 43-87. All positive values are estimated (J) and all non-detects are rejected (R).

5) Other QC: Trichloroethene contamination at 4ug/l found in the Field Blank for samples collected 10/24/88.  
Positive Trichloroethane value for sample 3-87 is estimated (J) because of possible cross-contamination or  
analytical carry-over from previous samples. Subsequent reanalysis of 3-87 showed the Trichloroethene value is a  
non-detect.

Comments: All values below method detection limits will be estimated (J) and quantified as acceptable until the  
quantitation limits are supplied. Samples that do not meet surrogate recovery criteria must be reanalyzed.

Chloroform contamination was found in the Reagent Blanks.

**Note: Data Summary Tables are attached.**

  
\_\_\_\_\_  
Reviewer Signature

06/09/89  
Date

Sample Location	Flight B	Trip Blank	Field Blank	43-87	43-87	45-87	70-86	52-87
Sample Number					X100			
Sampling Date		10/17/88	10/17/88	10/17/88	10/17/88	10/17/88	10/17/88	10/17/88
Remarks								
Volatiles Organic Compound	(DQ)	(DQ)	(DQ)	(DQ)	(DQ)	(DQ)	(DQ)	(DQ)
Detection Limit (ppb)								
Chloromethane	10	10 U R	10 U R	10 U R	1000 U R	10 U R	10 U R	10 U R
Bromomethane	10	10 U V	10 U V	10 U R	1000 U V	10 U V	10 U V	10 U V
Vinyl Chloride	10	10 U V	10 U V	10 U R	1000 U V	10 U V	10 U V	10 U V
Chloroethane	10	10 U R	10 U R	10 U R	1000 U R	10 U R	10 U R	10 U R
Methylene Chloride	5	3 J A	2 J A	31 J A	500 U V	5 U V	5 U V	5 U V
Acetone	10	3 J A	2 J A	10 U R	1000 U V	10 U V	10 U V	10 U V
Carbon Disulfide	5	5 U V	5 U V	5 U R	500 U V	5 U V	5 U V	5 U V
1,1-Dichloroethane	5	5 U V	5 U V	17000 E A	11000 V	5 U V	5 U V	5 U V
1,2-Dichloroethane	5	5 U V	5 U V	350 E A	500 U V	5 U V	5 U V	5 U V
1,2-Dichloroethane (Total)	5	5 U V	5 U V	5 U R	500 U V	5 U V	5 U V	5 U V
Chloroform	5	5 U V	5 U V	5 U R	500 U V	5 U V	5 U V	5 U V
1,2-Dichloroethane	5	5 U V	5 U V	5 U R	500 U V	5 U V	5 U V	5 U V
2-Butanone	10	3 J A	2 J A	10 U R	1000 U V	10 U V	10 U V	10 U V
1,1,1-Trichloroethane	5	5 U V	5 U V	5800 E A	25000 E A	5 U V	5 U V	5 U V
Carbon Tetrachloride	5	5 U V	5 U V	5 U R	500 U V	5 U V	5 U V	5 U V
Vinyl Acetate	10	10 U V	10 U V	10 U R	1000 U V	10 U V	10 U V	10 U V
Bromodichloromethane	5	5 U V	5 U V	5 U R	500 U V	5 U V	5 U V	5 U V
1,2-Dichloropropane	5	5 U V	5 U V	5 U R	500 U V	5 U V	5 U V	5 U V
cis-1,3-Dichloropropene	5	5 U V	5 U V	5 U R	500 U V	5 U V	5 U V	5 U V
Trichloroethene	5	5 U V	5 U V	5300 E A	17000 V	5 U V	5 U V	2 J A
Dibromochloromethane	5	5 U V	5 U V	5 U R	500 U V	5 U V	5 U V	5 U V
1,1,2-Trichloroethane	5	5 U V	5 U V	83 J A	500 U V	5 U V	5 U V	5 U V
Benzene	5	5 U V	5 U V	5 U R	500 U V	5 U V	5 U V	5 U V
Trans-1,3-Dichloropropene	5	5 U V	5 U V	5 U R	500 U V	5 U V	5 U V	5 U V
Bromoform	5	5 U V	5 U V	5 U R	500 U V	5 U V	5 U V	5 U V
4-Methyl-2-pentanone	10	10 U V	10 U V	10 U R	1000 U V	10 U V	10 U V	10 U V
2-Hexanone	10	10 U V	10 U V	10 U R	1000 U V	10 U V	10 U V	10 U V
Tetrachloroethane	5	5 U V	5 U V	2500 E A	8100 V	5 U V	5 U V	2 J A
1,1,2,2-Tetrachloroethane	5	5 U V	5 U V	5 U R	500 U V	5 U V	5 U V	5 U V
Toluene	5	5 U V	5 U V	180 U A	500 U V	5 U V	5 U V	5 U V
Chlorobenzene	5	5 U V	5 U V	5 U R	500 U V	5 U V	5 U V	5 U V
Ethylbenzene	5	5 U V	5 U V	4 J A	500 U V	5 U V	5 U V	5 U V
Styrene	5	5 U V	5 U V	5 U R	500 U V	5 U V	5 U V	5 U V
Xylene (Total)	5	5 U V	5 U V	5 U R	500 U V	5 U V	5 U V	5 U V
Total volatile organic concentration (ppb)	9	9	6	31248	61100	0	0	4

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 J Quantitation is approximate due to limitations identified during the quality control review (data validation).  
 A Value is rejected due to other contractual criteria examined during the quality control review (data validation).  
 R Value is rejected due to blank contamination identified during the quality control review (data validation).  
 ppb Parts per billion.  
 DQ Data Qualifier  
 V Valid  
 A Acceptable with qualifications  
 R Rejected, data unusable  
 E Exceeds callb. range; diluted & reanalyzed  
 Form V-1

Sample Location	Sample Number	Sampling Date	Remarks	Detection Limit (ppb)	Print B	Tip Blank	Field Blank	55-86	55-86D	69-86	4-87	Print B							
Chloromethane		10/19/88		10		10 U	A	10 U	A	10 U	A	10 U							
Bromomethane		10/19/88		10		10 U	V	10 U	V	10 U	V	10 U							
Vinyl Chloride		10/19/88		10		10 U	V	10 U	V	10 U	V	10 U							
Chloroethane		10/19/88		10		10 U	R	10 U	R	10 U	R	10 U							
Methylene Chloride		10/19/88		5		3 J	A	5 U	V	5 U	V	5 U							
Acetone		10/19/88		10		10 U	V	10 U	V	10 U	V	10 U							
Carbon Disulfide		10/19/88		5		5 U	V	5 U	V	5 U	V	5 U							
1,1-Dichloroethane		10/19/88		5		5 U	V	5 U	V	5 U	V	5 U							
1,1-Dichloroethane		10/19/88		5		5 U	V	5 U	V	5 U	V	5 U							
1,2-Dichloroethane (Total)		10/19/88		5		5 U	V	5 U	V	5 U	V	5 U							
Chloroform		10/19/88		5	11ppb	5 U	V	5 U	V	5 U	V	5 U							
1,2-Dichloroethane		10/19/88		5		5 U	V	5 U	V	5 U	V	5 U							
2-Butanone		10/19/88		10		10 U	V	10 U	V	10 U	V	10 U							
1,1,1-Trichloroethane		10/19/88		5		5 U	V	5 U	V	5 U	V	5 U							
Carbon Tetrachloride		10/19/88		5		5 U	V	5 U	V	5 U	V	5 U							
Vinyl Acetate		10/19/88		10		10 U	V	10 U	V	10 U	V	10 U							
Bromodichloromethane		10/19/88		5		5 U	V	5 U	V	5 U	V	5 U							
1,2-Dichloropropane		10/19/88		5		5 U	V	5 U	V	5 U	V	5 U							
cis-1,3-Dichloropropene		10/19/88		5		5 U	V	5 U	V	5 U	V	5 U							
Trichloroethene		10/19/88		5		5 U	V	5 U	V	5 U	V	5 U							
Dibromochloromethane		10/19/88		5		5 U	V	5 U	V	5 U	V	5 U							
1,1,2-Trichloroethane		10/19/88		5		5 U	V	5 U	V	5 U	V	5 U							
Benzene		10/19/88		5		5 U	V	5 U	V	5 U	V	5 U							
Trans-1,3-Dichloropropene		10/19/88		5		5 U	V	5 U	V	5 U	V	5 U							
Bromoform		10/19/88		5		5 U	V	5 U	V	5 U	V	5 U							
4-Methyl-2-pentanone		10/19/88		10		10 U	V	10 U	V	10 U	V	10 U							
2-Hexanone		10/19/88		10		10 U	V	10 U	V	10 U	V	10 U							
Tetrachloroethene		10/19/88		5		5 U	V	5 U	V	5 U	V	5 U							
1,1,2,2-Tetrachloroethane		10/19/88		5		5 U	V	5 U	V	5 U	V	5 U							
Toluene		10/19/88		5		5 U	V	5 U	V	5 U	V	5 U							
Chlorobenzene		10/19/88		5		5 U	V	5 U	V	5 U	V	5 U							
Ethylbenzene		10/19/88		5		5 U	V	5 U	V	5 U	V	5 U							
Styrene		10/19/88		5		5 U	V	5 U	V	5 U	V	5 U							
Xylene (Total)		10/19/88		5		5 U	V	5 U	V	5 U	V	5 U							
Total volatile organic concentration (ppb)					11		3		3		0		0		0		59		9

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 \*\* Value is rejected due to blank contamination identified during the quality control review (data validation).  
 ppb Parts per billion.

DQ Data Qualifier  
 V Valid  
 A Acceptable with qualifications  
 R Rejected, data unusable  
 E Exceeds calib. range; diluted & reanalyzed

Form V-1

Sample Location	Tip Blank	Field Blank	9-74	10-74	3-87	8-87	Tip Blank	Field Blank
Sample Number	10/24/88	10/24/88	10/24/88	10/24/88	10/24/88	10/24/88	10/24/88	10/24/88
Sampling Date								
Remarks								
Volatiles Organic Compound	(DQ)	(DQ)	(DQ)	(DQ)	(DQ)	(DQ)	(DQ)	(DQ)
Chloromethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	5	4 J	13 J	5 U	5 U	5 U	5 U	5 U
Acetone	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon Disulfide	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5	5 U	4600 E	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5	5 U	23 J	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (Total)	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	5	5 U	5 U	30 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane	5	5 U	6900 E	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	5 U	5 U	2500 E	5 U	5 U	5 U	5 U
Vinyl Acetate	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3 Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	5	5 U	5500 E	1300 E	5 U	5 U	5 U	5 U
Dibromochloromethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5	5 U	73 J	5 U	5 U	5 U	5 U	5 U
Benzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trans-1,3-Dichloropropene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoforn	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	5 U	3800 E	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	5	5 U	2 J	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylene (Total)	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Total volatile organic concentration (ppb)	33	4	20911	3800	11	0	0	8

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 R Value is rejected due to blank contamination identified during the quality control review (data validation).  
 ppb Parts per billion.

DQ Data Qualifier  
 V Valid  
 A Acceptable with qualifications  
 R Rejected, data unusable  
 E Exceeds callb. range; diluted & reanalyzed

Form V-1

Sample Location	1-87	Rgmt B	9-74	10-74	3-87	Rgmt B	2-87	62-86
Sample Number			X50	X50	Rerun			
Sampling Date	10/24/88		10/24/88	10/24/88	10/24/88		11/14/88	11/14/88
Remarks								
Volatiles Organic Compound	Detection Limit (ppb)	(DQ)	(DQ)	(DQ)	(DQ)	(DQ)	(DQ)	(DQ)
Chloromethane	10	10 U	500 U	500 U	10 U	10 U	10 U	10 U
Bromomethane	10	10 U	500 U	500 U	10 U	10 U	10 U	10 U
Vinyl Chloride	10	10 U	500 U	500 U	10 U	10 U	10 U	10 U
Chloroethane	10	10 U	500 U	500 U	10 U	10 U	10 U	10 U
Methylene Chloride	5	5 U	250 U	250 U	5 U	5 U	5 U	5 U
Acetone	10	10 U	500 U	500 U	10 U	10 U	10 U	10 U
Carbon Disulfide	5	5 U	250 U	250 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5	5 U	250 U	250 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5	5 U	250 U	250 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane (Total)	5	5 U	250 U	250 U	5 U	5 U	5 U	5 U
Chloroform	5	5 U	460 U	250 U	5 U	11 ppb	5 U	5 U
1,2-Dichloroethane	5	5 U	250 U	250 U	5 U	5 U	5 U	5 U
2-Butanone	10	10 U	500 U	500 U	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane	5	5 U	8200	250 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	5 U	250 U	1600 U	5 U	5 U	5 U	5 U
Vinyl Acetate	10	10 U	500 U	500 U	10 U	10 U	10 U	10 U
Bromodichloromethane	5	5 U	250 U	250 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	5	5 U	250 U	250 U	5 U	5 U	5 U	5 U
cis-1,3 Dichloropropene	5	5 U	250 U	250 U	5 U	5 U	5 U	5 U
Trichloroethene	5	5 U	9500	600 U	5 U	5 U	5 U	5 U
Dibromochloromethane	5	5 U	250 U	250 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5	5 U	250 U	250 U	5 U	5 U	5 U	5 U
Benzene	5	5 U	250 U	250 U	5 U	5 U	5 U	5 U
Trans-1,3-Dichloropropene	5	5 U	250 U	250 U	5 U	5 U	5 U	5 U
Bromoform	5	5 U	250 U	250 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	10	10 U	500 U	500 U	10 U	10 U	10 U	10 U
2-Hexanone	10	10 U	500 U	500 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	5 U	250 U	250 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5	5 U	250 U	250 U	5 U	5 U	5 U	5 U
Toluene	5	5 U	250 U	250 U	5 U	6 ppb	5 U	5 U
Chlorobenzene	5	5 U	250 U	250 U	5 U	5 U	5 U	5 U
Ethylbenzene	5	5 U	250 U	250 U	5 U	5 U	5 U	5 U
Styrene	5	5 U	250 U	250 U	5 U	5 U	5 U	5 U
Xylene (Total)	5	5 U	250 U	250 U	5 U	5 U	5 U	5 U
Total volatile organic concentration (ppb)	0	12	25000	2200	0	22	0	29

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 ppb Parts per billion.  
 DQ Data Qualifier  
 V Valid  
 A Acceptable with qualifications  
 R Rejected, data unusable  
 E Exceeds calib. range; diluted & reanalyzed  
 Form V-1

Sample Location	5-97	Trip Blank	Field Blank					
Sample Number	11/14/88	11/14/88	11/14/88					
Remarks								
Volatle Organic Compound	Detection Limit (ppb)	(DQ)	(DQ)	(DQ)				
Chloromethane	10	10U R	10U R	10U R				
Bromomethane	10	10U A	10UJ A	10UJ A				
Vinyl Chloride	10	10U V	10U V	10U V				
Chloroethane	10	10U R	10U R	10U R				
Methylene Chloride	5	5UJ A	9UJ A	7UJ A				
Acetone	10	10U V	10U V	10U V				
Carbon Disulfide	5	5U V	5U V	5U V				
1,1-Dichloroethene	5	5U V	5U V	5U V				
1,1-Dichloroethane	5	5U V	5U V	5U V				
1,2-Dichloroethene (Total)	5	5U V	5U V	5U V				
Chloroform	5	5UJ A	5UJ A	5UJ A				
1,2-Dichloroethane	5	5U V	5U V	5U V				
2-Butanone	10	10U R	13J A	10U R				
1,1,1-Trichloroethane	5	5U V	5U V	5U V				
Carbon Tetrachloride	5	5U V	5U V	5U V				
Vinyl Acetate	10	10U V	10U V	10U V				
Bromodichloromethane	5	5U V	5U V	5U V				
1,2-Dichloropropane	5	5U V	5U V	5U V				
cis-1,3 Dichloropropene	5	5U V	5U V	5U V				
Trichloroethene	5	5U V	5U V	5U V				
Dibromochloromethane	5	5U V	5U V	5U V				
1,1,2-Trichloroethane	5	5U V	5U V	5U V				
Benzene	5	5U V	5U V	5U V				
Trans-1,3-Dichloropropene	5	5U V	5U V	5U V				
Bromoform	5	5U V	5U V	5U V				
4-Methyl-2-pentanone	10	10UJ A	10UJ A	10UJ A				
2-Hexanone	10	10U V	10U V	10U V				
Tetrachloroethene	5	5U V	5U V	5U V				
1,1,2,2-Tetrachloroethane	5	5U V	5U V	5U V				
Toluene	5	6UJ A	5U V	5U V				
Chlorobenzene	5	5U V	5U V	5U V				
Ethylbenzene	5	5UJ A	5UJ A	5UJ A				
Styrene	5	5U V	5U V	5U V				
Xylene (Total)	5	5U V	5U V	5U V				
Total volatile organic concentration (ppb)	0	13	0	0				0

U Indicates the compound was not detected above the Required Quantitation Limit.  
 J Quantitation is approximate due to limitations identified during the quality control review (data validation).  
 A Value is rejected due to other contractual criteria examined during the quality control review (data validation).  
 R Value is rejected due to blank contamination identified during the quality control review (data validation).  
 ppb Parts per billion.  
 DQ Data Qualifier  
 V Valid  
 A Acceptable with qualifications  
 R Rejected, data unusable  
 E Exceeds callb. range; diluted & reanalyzed  
 Form V-1