

June 12, 2006

Mr. Rafat Abbasi  
Hazardous Substances Scientist/Project Manager  
Department of Toxic Substances Control  
5796 Corporate Avenue  
Cypress, California 90630

Via E-Mail and U.S. Mail

Re: Data Transmittal  
Norco High School – Buildings B and D  
Norco, California

Dear Mr. Abbasi:

Attached please find the results for ambient air and indoor air quality (IAQ) samples obtained inside the northwestern portion of the Norco High School (High School) on May 12-13, 2006. Locations sampled during this event were selected in conjunction with the Department of Toxic Substances Control (DTSC) during a site visit on March 27, 2006, and are described in ENVIRON's Technical Memorandum (TM) to DTSC dated April 3, 2006. These sample locations were selected to supplement previous sampling conducted at the High School on January 13 and 14, 2006 and July 27 and 28, 2005. During these previous sampling events, five IAQ samples were collected from this same area of the High School. The sample results from January 2006 and July 2005 were previously transmitted to DTSC. The table and figure included with this data transmittal are:

- Table 1 summarizes the detected volatile organic compounds (VOCs) in IAQ samples and ambient outdoor air samples collected at the High School in May 12-13, 2006. Figure 1 shows the approximate IAQ sample locations at the High School.

All IAQ and ambient air samples were analyzed for 1,1-Dichloroethene (1,1-DCE), trans-1,2-Dichloroethene (trans-1,2- DCE), cis-1,2-Dichloroethene (cis-1,2- DCE), Tetrachloroethene (PCE), Trichloroethene (TCE), and Vinyl Chloride (VC). 1,1-DCE, and cis- and trans-1,2-DCE were not detected in any indoor or outdoor samples. The remaining three chemicals are discussed in more detail below.

#### *Tetrachloroethene (PCE)*

PCE concentrations in ambient outdoor air ranged from 0.323 to 0.465  $\mu\text{g}/\text{m}^3$ . The indoor sample results ranged from non-detect ( $<0.213 \mu\text{g}/\text{m}^3$ ) to 1.886  $\mu\text{g}/\text{m}^3$ . Four indoor samples exceeded the maximum measured ambient PCE concentration (Samples IAQ-HS-26, IAQ-HS-27, IAQ-HS 28 and IAQ-HS-31). Other IAQ samples indicated PCE concentrations lower than or similar to that measured outdoors. The maximum concentration detected indoors is higher than the maximum concentration previously detected in this area (0.63  $\mu\text{g}/\text{m}^3$  on January 13, 2006).

Based on the Office of Environmental Health Hazard Assessment (OEHHA) (*Guidance for Assessing Exposure And Health Risks At Existing and Proposed School Sites, Final Report, February 2004*) methodology, the maximum PCE concentration (1.886  $\mu\text{g}/\text{m}^3$ ) detected would correspond to an estimated cancer risk of 0.07 in a million ( $7 \times 10^{-8}$ ) for students and three in a million ( $3 \times 10^{-6}$ ) for staff, assuming a default exposure duration for teachers of 40 years. Based on average

concentrations to date, detected concentrations of PCE do not pose an acute or chronic risk to students or faculty at the high school.

*Trichlorethene (TCE)*

TCE concentrations in the two outdoor samples ranged from non-detect ( $<0.114 \mu\text{g}/\text{m}^3$ ) to  $0.562 \mu\text{g}/\text{m}^3$ . The indoor air sample results ranged from non-detect (with a maximum detection limit of  $0.197 \mu\text{g}/\text{m}^3$ ) to  $1.377 \mu\text{g}/\text{m}^3$ . One indoor sample exceeded the maximum measured ambient concentration (Sample IAQ-HS-27). Other IAQ samples indicated TCE concentrations lower than those measured outdoors. The maximum concentration detected indoors is lower than the maximum concentration previously detected in this area ( $5.3 \mu\text{g}/\text{m}^3$  on January 13, 2006).

Based on OEHHA's methodology, the maximum TCE concentration detected would correspond to an estimated cancer risk of 0.018 in a million ( $1.8 \times 10^{-8}$ ) for students and 0.76 in a million ( $7.6 \times 10^{-7}$ ) for staff, assuming a default exposure duration for teachers of 40 years. Based on average concentrations to date, detected concentrations of TCE do not pose an acute or chronic risk to students or faculty at the high school.

*Vinyl Chloride(VC)*

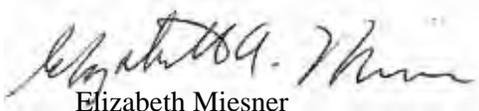
VC concentrations in the two outdoor samples ranged from 0.021 to  $0.061 \mu\text{g}/\text{m}^3$ ; both values were "J" qualified. The indoor sample results ranged from non-detect (with a maximum detection limit of  $0.031 \mu\text{g}/\text{m}^3$ ) to  $0.034 \mu\text{g}/\text{m}^3$ . All samples were non-detect except for two (IAQ-HS-23 and IAQ-HS-24); both of which were "J" qualified. IAQ samples indicated VC concentrations within the range of those measured outdoors. Previously, VC was not detected in this portion of the High School, however, the detection limits at the time were higher than the current detected concentrations. Estimated cancer risks have not been calculated for VC as all indoor air concentrations are within the range of outdoor air concentrations.

A number of quality assurance and quality control steps were taken to ensure the integrity of air samples, and hence, the results. One trip blank (IAQ-TB-51206), one duplicate sample (IAQ-HS-28 and IAQ-HS-28D), and individual canister and mass flow controller certifications were included as part of this sampling effort.

As previously discussed in ENVIRON's previous Data Transmittal entitled "*Data Transmittal, Norco High School, Norco, California,*" dated February 21, 2006, based on a review of soil gas and groundwater data in the vicinity of the buildings sampled, strong attenuation likely occurs between the water table and the depth of approximately 5 feet below ground surface (bgs). A review of the soil gas and indoor air data shows that a very high attenuation factor would be needed to explain the IAQ results. In addition, PCE detections in ground water generally are at least one order of magnitude less than TCE detections in ground water. This strongly suggests that the upward vapor migration of groundwater contaminants is not a primary source for the detected indoor air pollution, rather, rather the presence of PCE and TCE in the indoor air results from a source other than groundwater.

If you should have any questions, please contact the undersigned at (949) 261-5151.

Very truly yours,



Elizabeth Miesner  
Principal



Carol L. Serlin, P.G.  
Principal

P:\W\Wyle Labs\Norco Site\ENVIRON\RI Execution\DTSC Data Transmittals\06-12-06 Norco High School - IAQ,SG,and  
GW\6-12-06 HS IAQ data transmittal.doc

Attachments: Table 1, Figure 1, and Attachment

cc: Distribution

## **T A B L E**

**TABLE 1**  
**Summary of Detected VOCs in Indoor Air - Norco High School**  
**Wyle Laboratories, Norco, California**  
**Results in micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ )**

Sample Number	Date Sampled	Compound		
		PCE	TCE	Vinyl Chloride
IAQ-HS-OUT3	5/12/06	<b>0.465J</b>	<b>0.562J</b>	<b>0.061J</b>
IAQ-HS-OUT4	5/12/06	<b>0.323J</b>	<0.114	<b>0.021J</b>
IAQ-HS-22	5/12/06	<0.213	<b>0.210J</b>	<0.025UJ
IAQ-HS-23	5/12/06	<b>0.361J</b>	<0.145	<b>0.034J</b>
IAQ-HS-24	5/12/06	<b>0.250J</b>	<b>0.140J</b>	<b>0.025J</b>
IAQ-HS-25	5/12/06	<b>0.450J</b>	<b>0.196J</b>	<0.029UJ
IAQ-HS-26	5/12/06	<b>0.470J</b>	<b>0.495J</b>	<0.031UJ
IAQ-HS-27	5/12/06	<b>0.642J</b>	<b>1.377</b>	<0.028UJ
IAQ-HS-28	5/12/06	<b>1.695</b>	<b>0.276J</b>	<0.027UJ
IAQ-HS-28	5/12/06	<i>1.886</i>	<i>0.298J</i>	<i>&lt;0.030UJ</i>
IAQ-HS-29	5/12/06	<b>0.410J</b>	<0.197	<0.029UJ
IAQ-HS-30	5/12/06	<b>0.489J</b>	<0.176	<0.026UJ
IAQ-HS-31	5/12/06	<b>0.623J</b>	<b>0.337J</b>	<0.027UJ

Abbreviations

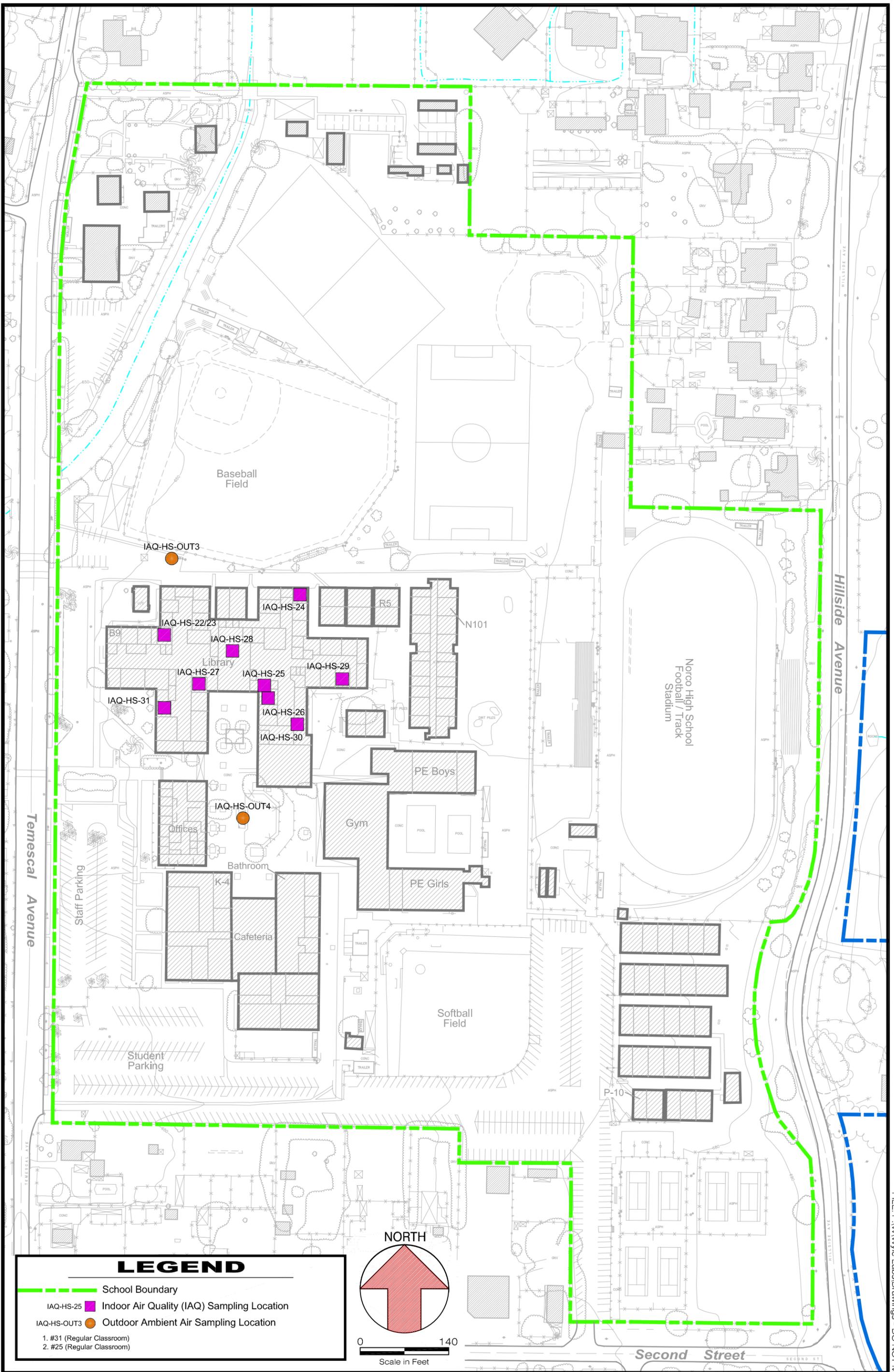
PCE = Tetrachloroethylene

TCE = Trichloroethylene

Duplicate results are shown in italics.

Based on data validation, qualifiers (U) indicate that the analyte was analyzed for, but was not detected above the reported sample quantitation limit. Qualifiers (J, UJ) indicate estimated results.

**FIGURE**



**LEGEND**

- - - - - School Boundary
- Indoor Air Quality (IAQ) Sampling Location
- Outdoor Ambient Air Sampling Location

1. #31 (Regular Classroom)  
2. #25 (Regular Classroom)

NORTH

0 140

Scale in Feet

**ATTACHMENT**



May 25, 2006  
Sample Delivery Groups (SDG): 206227

Eric Lu  
Environ Corporation  
707 Wilshire Blvd., Suite 4950  
Los Angeles, CA 90017

Dear Eric:

Enclosed is the final analytical report for the sample(s) received and analyzed by Environmental Analytical Service, Inc. for the following project:

Project Name: Wyle Norco HS IAQ  
Project Number: 04-8099P

The report consists of the following sections:

- I. Sample Description
- II. Laboratory Narrative and Chain of Custody Forms
- III. Laboratory Certification
- IV. Quality Control Reports
- V. Analytical Results

If you have any questions on the report or the analytical data please contact me at (805) 781-3585.

Sincerely,



Steven D. Hoyt, Ph.D.  
Laboratory Director

SDH/lms

# Analytical Report

SDG Number 206227

Client: Environ Corporation

Date Received: 5/16/2006

## I. SAMPLE DESCRIPTION AND ANALYSIS REQUESTED

Client Sample No.	EAS Lab No	Analysis Requested	Pressure (torr)		
			Date	Sample Rec	Final
IAQ-HS-OUT3-51206	206227 1	EPA TO-15 SIM Special List	5/12/2006	549	913
IAQ-HS-OUT4-51206	206227 2	EPA TO-15 SIM Special List	5/12/2006	744	957
IAQ-HS-22-51206	206227 3	EPA TO-15 SIM Special List	5/12/2006	618	944
IAQ-HS-23-51206	206227 4	EPA TO-15 SIM Special List	5/12/2006	702	957
IAQ-HS-24-51206	206227 5	EPA TO-15 SIM Special List	5/12/2006	756	965
IAQ-HS-25-51206	206227 6	EPA TO-15 SIM Special List	5/12/2006	517	964
IAQ-HS-26-51206	206227 7	EPA TO-15 SIM Special List	5/12/2006	482	950
IAQ-HS-27-51206	206227 8	EPA TO-15 SIM Special List	5/12/2006	526	910
IAQ-HS-28-51206	206227 9	EPA TO-15 SIM Special List	5/12/2006	547	909
IAQ-HS-28-51206D	206227 10	EPA TO-15 SIM Special List	5/12/2006	483	945
IAQ-HS-29-51206	206227 11	EPA TO-15 SIM Special List	5/12/2006	508	941
IAQ-HS-30-51206	206227 12	EPA TO-15 SIM Special List	5/12/2006	569	941
IAQ-HS-31-51206	206227 13	EPA TO-15 SIM Special List	5/12/2006	555	974
IAQ-TB-51206	206227 14	EPA TO-15 SIM Special List	5/12/2006	1114	

## II. LABORATORY CASE NARRATIVE and CHAIN OF CUSTODY FORMS

EAS SDG Number 206227

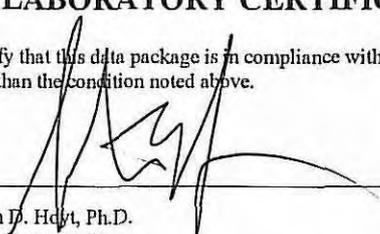
Client: Environ Corporation

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All analysis met the QC requirements for the method except vinyl chloride exceeds QC limits for % recovery on the laboratory control spike analysis. The QC limit for % recovery on the laboratory control spike is 70-130%. The % recovery was 66%.

## III. LABORATORY CERTIFICATION

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness other than the condition noted above.



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Steven J. Hoyt, Ph.D.  
Laboratory Director

**CHAIN OF CUSTODY RECORD**

Project Number 04-8099X Project Name Wyle Norco HS IAQ Quote Number: 12614

**REPORT TO:**  
Company ENVIRON  
Address 707 Wilshire Blvd Suite 4950  
City/State/Zip Los Angeles CA 90017  
Phone 213-943-6338 (FAX) 213-943-6303  
ATTENTION Eric Lu

**MATRIX LEGEND**  
A - Ambient Air, Low Level  
I - Indoor Air  
S - Source Air, High Level  
G - Gas/Product

INITIAL PRESSURE (N<sub>2</sub>)  
FINAL PRESSURE  
EAS LABORATORY ID

ANALYTICAL TESTS  
10-15 SIM Per.  
PCE  
TCB  
cis  
4,1-Trans-PCE  
Vinyl Chloride  
7 5 day Turnaround  
10% Level III  
Balance Level II

SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	CANISTER NUMBER	C O M P	G R A B	MATRIX					INITIAL PRESSURE	FINAL PRESSURE	EAS LABORATORY ID	REMARKS		
						A	I	S	G							
IAQ-HS-OUT3-51206	5/12/06	~24 hr	648	X		X					549	913	206027-1	X	want results reported with EDD	
-OUT4-51206		~24 hr	417	X		X					744	957		-2		X
-22-51206		~24 hr	754	X			X				618	944		-3		X
-23-51206		~24 hr	56	X			X				702	957		-4		X
-24-51206		~24 hr	196	X			X				756	965		-5		X
-25-51206		~24 hr	65	X			X				517	964		-6		X
-26-51206		~24 hr	179	X			X				482	950		-7		X
✓-27-51206	✓	~24 hr	728	X			X				526	910		-8		X

COMMENTS: Returned can #608, 685 Shelf U

**BILLING INFORMATION**

Company same as above

Address

City/State/Zip

ATTENTION

Purchase Order/Billing Reference 04-8099X

SAMPLED BY: [Signature] Date 5/15/06 Time 11:00

Relinquished By: \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

Relinquished By: \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

Relinquished By: \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

Received by: \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

Received by: \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

Received for lab by: [Signature] Date 5/16/06 Time 1225

**CHAIN OF CUSTODY RECORD**

Project Number		Project Name:				Quote Number:			ANALYTICAL TESTS To-15 SIM Same as pg. 1												
<b>REPORT TO:</b>		MATRIX LEGEND A - Ambient Air, Low Level I - Indoor Air S - Source Air, High Level G - Gas/Product				INITIAL PRESSURE (N <sub>2</sub> )		FINAL PRESSURE								EAS LABORATORY ID					
Company																					
Address																					
City/State/Zip		Phone (FAX)		ATTENTION		SAMPLE DESCRIPTION		SAMPLE DATE	SAMPLE TIME	CANISTER NUMBER	COMP	GRAB	MATRIX				REMARKS				
														A	I	S	G				
IAQ-HS-28-51206		5/12/06		~24 hr		790		X						X				547 909 206227-9 X		Shelf X	
-28-51206				~24 hr		756		X						X				483 945 -10 X			
-29-51206				~24 hr		612		X						X				508 941 -11 X			
-30-51206				~24 hr		630		X						X				508 941 -12 X			
√ -31-51206				~24 hr		619		X						X				555 974 -13 X			
IAQ-TB-51206		√		~24 hr		704		X						X				1114 -14 X			

COMMENTS

<b>BILLING INFORMATION</b>									
Company		SAMPLED BY: <i>[Signature]</i>		Date Time: 5/15/06 11:00		Received by:		Date Time	
Address		Relinquished By: <i>[Signature]</i>		Date Time		Received by:		Date Time	
City/State/Zip		Relinquished By:		Date Time		Received by:		Date Time	
ATTENTION		Relinquished By:		Date Time		Received for lab by:		Date Time	
Purchase Order/Billing Reference						<i>[Signature]</i>		5/16/06 1225	

#### **IV. QUALITY CONTROL REPORT**

SDG Numbers: 206227  
Client: Environ Corporation

#### **LABORATORY QC REPORT**

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#### **QC NARRATIVE**

Unless project specific QC was specified, these samples were analyzed with the standard EAS QC for the method as defined in the EAS Quality Manual.

#### **STANDARD LABORATORY QC REPORT**

Unless project specific QC reporting was requested, this Section contains the standard laboratory QC supplied with the analytical reports, which includes the daily method blank and the daily duplicate control samples as described below. Each day that samples are analyzed comprises a Daily Analytical Batch for a particular instrument. A Daily Analytical Batch QC report will be supplied for each method and each day samples from this SDG Group were analyzed.

#### **METHOD BLANK**

A method blank is a laboratory-generated sample which assesses the degree to which laboratory operations and procedures cause false-positive analytical results for your samples. A copy of each batch Method Blank is included with the report. If a compound is detected in the Method Blank between the RL and MDL, it will be flagged with a "J". If a compound is above the RL, it will be flagged with a "B"

#### **DUPLICATE CONTROL SAMPLES**

A duplicate or duplicate control sample (DCS) was analyzed as part of each daily analytical batch. A DCS is a well-characterized matrix (blank water, ambient air, or actual sample) which may or may not be spiked and run in duplicate with your sample batch. The results are on the attached Duplicate Sample/Spike results. Precision is measured in a duplicate test by Relative Percent Difference (RPD) as in:

$$\text{RPD} = \frac{[\% \text{ Recovery Test 1} - \% \text{ Recovery Test 2}] \times 100}{(\text{Recovery Test 1} + \text{Recovery Test 2}) / 2}$$

# METHOD BLANK REPORT

EPA Method TO-15 SIM GC/MS  
Analytical Method: TO-15 SIM

SDG: LABQC  
Laboratory Number: B05186

File: CC13792A.D  
Description: METHOD BLANK  
Can/Tube#:  
Sam\_Type: MB  
QC\_Batch: 051806-MS1  
Air Volume: 700 ml

Date Sampled:  
Date Received:  
Date Extracted:  
Date Analyzed: 05/18/06  
Can Dilution Factor: 1.00  
Not Detected Flag: U  
Time: 12:06  
3

CAS#	Compound	MDL ppbv	RL ppbv	Amount ppbv	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
75-01-4	Vinyl chloride	0.006	0.073	0.006	0.015	0.192	0.015	U
75-35-4	1,1-Dichloroethene	0.007	0.074	0.009	0.029	0.304	0.035	J
156-60-5	trans-1,2-Dichloroethene	0.029	0.629	0.029	0.117	2.573	0.117	U
156-59-2	cis-1,2-Dichloroethene	0.007	0.074	0.007	0.029	0.304	0.029	U
79-01-6	Trichloroethene	0.019	0.074	0.019	0.103	0.411	0.103	U
127-18-4	Tetrachloroethene	0.019	0.074	0.019	0.130	0.521	0.130	U
		Spike Amt.		Amount	QC		Flag	
Surrogate Recovery		ppbV		ppbV	% Rec.	Limits	* = Out	
Toluene-d8		0.200		0.241	120	70-130		

- Notes: 1) Reported results are to be interpreted to two significant figures.  
 2) ug/m3 = ppbV\*FW/23.68 calculated assuming conditions at 60 F and 1 atm.  
 3) MDL and RL are adjusted for sample volume and can dilution.  
 4) U and ND are Flags used for Not Detected  
 5) J is a flag for a result between the MDL and the RL (or lower quantitation limit, LQL)

# METHOD BLANK REPORT

EPA Method TO-15 SIM GC/MS  
Analytical Method: TO-15 SIM

SDG: LABQC  
Laboratory Number: B05196

File: CC24A.D  
Description: METHOD BLANK  
Can/Tube#:   
Sam\_Type: MB  
QC\_Batch: 051906-MS3  
Air Volume: 700 ml

Date Sampled:   
Date Received:   
Date Extracted:   
Date Analyzed: 05/19/06  
Can Dilution Factor: 1.00  
Not Detected Flag: U  
Time: 11:03  
3

CAS#	Compound	MDL ppbv	RL ppbv	Amount ppbv	MDL ug/m3	RL ug/m3	Amount ug/m3	Flag
75-01-4	Vinyl chloride	0.006	0.014	0.006	0.015	0.038	0.015	U
75-35-4	1,1-Dichloroethene	0.007	0.014	0.007	0.029	0.058	0.029	U
156-60-5	trans-1,2-Dichloroethene	0.029	0.126	0.029	0.117	0.515	0.117	U
156-59-2	cis-1,2-Dichloroethene	0.007	0.014	0.007	0.029	0.058	0.029	U
79-01-6	Trichloroethene	0.019	0.036	0.019	0.103	0.198	0.103	U
127-18-4	Tetrachloroethene	0.019	0.036	0.019	0.130	0.250	0.130	U

Surrogate Recovery	Spike Amt. ppbV	Amount ppbV	% Rec.	QC Limits	Flag * = Out
Toluene-d8	0.200	0.192	96	70-130	

- Notes: 1) Reported results are to be interpreted to two significant figures.  
 2) ug/m3 = ppbV\*FW/23.68 calculated assuming conditions at 60 F and 1 atm.  
 3) MDL and RL are adjusted for sample volume and can dilution.  
 4) U and ND are Flags used for Not Detected  
 5) J is a flag for a result between the MDL and the RL (or lower quantitation limit, LQL)

# QUALITY CONTROL DUPLICATE

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## Duplicate of QC Sample

EPA Method TO-15 SIM GC/MS

Analytical Method: TO-15 SIM

SDG: LABQC

Dup File: QC05186B.D

Description: ST-071105-2

Can/Tube#:

QC\_Batch: 051806-MS1

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CAS#	Compound	LCD ppbv	LCS ppbv	RPD %D	Limit %	Flag * = Out
75-01-4	Vinyl chloride	0.079	0.068	11	30	
75-35-4	1,1-Dichloroethene	0.072	0.073	1	30	
156-59-2	cis-1,2-Dichloroethene	0.083	0.079	4	30	
79-01-6	Trichloroethene	0.109	0.099	10	30	
127-18-4	Tetrachloroethene	0.106	0.093	13	30	

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# QUALITY CONTROL REPORT

**ENVIRONMENTAL**  
Analytical Service, Inc.

## LABORATORY CONTROL SPIKE

EPA Method TO-15 SIM GC/MS

SDG: LABQC

Analytical Method: TO-15 SIM

File: QC05186A.D

Date Sampled: NA

Description: ST-071105-2

Date Received: NA

Can/Tube#:

Date Extracted: NA

Sam\_Type: LCS

Date Analyzed: 05/18/06 Time: 9:49

QC\_Batch: 051806-MS1

Can Dilution Factor: 1.00 3

Air Volume: 1000 ml

QC Duplicate: No

CAS#	Compound	MDL ppbv	Spike Conc ppbv	Amount ppbv	Matrix Amt ppbv	Spk Amt ppbv	Percent Recovery	LCL %	UCL %	Flag
75-01-4	Vinyl chloride	0.004	0.103	0.068	0.000	0.068	66	70	130	*
75-35-4	1,1-Dichloroethene	0.005	0.103	0.073	0.000	0.073	71	70	130	
156-59-2	cis-1,2-Dichloroethene	0.005	0.103	0.079	0.000	0.079	77	70	130	
79-01-6	Trichloroethene	0.013	0.103	0.099	0.000	0.099	96	70	130	
127-18-4	Tetrachloroethene	0.013	0.103	0.093	0.000	0.093	90	70	130	

Surrogate Recovery	Spike Amt. ppbV	Amount ppbV	% Rec.	QC Limits	Flag * = Out
Toluene-d8	0.200	0.210	105	70-130	

Notes: Reported results are to be interpreted to two significant figures.

\*ug/m3 calculated assuming conditions at 60 F and 1 atm.

# QUALITY CONTROL REPORT

**ENVIRONMENTAL**  
Analytical Service, Inc.

## LABORATORY CONTROL DUPLICATE

EPA Method TO-15 SIM GC/MS

SDG: LABQC

Analytical Method: TO-15 SIM

File: QC05186B.D

Date Sampled: NA

Description: ST-071105-2

Date Received: NA

Can/Tube#:

Date Extracted: NA

Sam\_Type: LCD

Date Analyzed: 05/18/06 Time: 10:31

QC\_Batch: 051806-MS1

Can Dilution Factor: 1.00 3

Air Volume: 1000 ml

QC Duplicate: Yes

CAS#	Compound	MDL ppbv	Spike Conc ppbv	Amount ppbv	Matrix Amt ppbv	Spk Amt ppbv	Percent Recovery	LCL %	UCL %	Flag
75-01-4	Vinyl chloride	0.004	0.103	0.079	0.000	0.079	77	70	130	
75-35-4	1,1-Dichloroethene	0.005	0.103	0.072	0.000	0.072	70	70	130	*
156-59-2	cis-1,2-Dichloroethene	0.005	0.103	0.083	0.000	0.083	81	70	130	
79-01-6	Trichloroethene	0.013	0.103	0.109	0.000	0.109	106	70	130	
127-18-4	Tetrachloroethene	0.013	0.103	0.106	0.000	0.106	103	70	130	
Surrogate Recovery			Spike Amt. ppbV	Amount ppbV		% Rec.	QC Limits	Flag * = Out		
Toluene-d8			0.200	0.233		117	70-130			

Notes: Reported results are to be interpreted to two significant figures.

\*ug/m3 calculated assuming conditions at 60 F and 1 atm.