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★ Stellar Environmental Solutions, Inc.

2198 Sixth Street, Berkeley, CA 94710
Tel: (510) 644-3123 • Fax: (510) 644-3859
Geoscience & Engineering Consulting

May 7, 2004

Mr. Barney Chan – Hazardous Materials Specialist
Alameda County Health Care Services Agency
Environmental Health Services – Environmental Protection
Local Oversight Program
1131 Harbor Bay Parkway
Alameda, California 94502-6577

Alameda County
MAY 13 2004
Environmental Health

Subject: Technical Addendum to Preliminary Site Assessment Report
Atlas Heating & Air Conditioning Company Facility
1451 - 32nd Street, Oakland, California 94608
Fuel Leak Case No. RO0002592

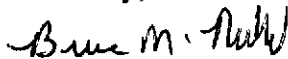
Dear Mr. Chan:

As we informed you by e-mail earlier this week, Stellar Environmental Solutions, Inc. (SES) discovered a technical omission in our recent (April 12, 2004) PSA report. The analytical laboratory neglected to report one of the chemicals of concern: the lead scavenger ethylene dichloride (EDC, a.k.a. 1,2-dichloroethane). All of the soil and water samples were analyzed by EPA Method 8260B, therefore the data were available (by evaluating the existing chromatograms) without having to re-analyze samples. Attached are the tables showing the analytical results for the soil and groundwater samples.

EDC was not detected in any of the soil or groundwater samples. Due to elevated concentrations of gasoline in several of the samples, those samples required dilution prior to analysis, which resulted in elevated method reporting limits for EDC. However, EDC was not detected in any of the samples, including ones that had detectable petroleum contamination, suggesting that EDC is not a chemical of concern at this site.

Please call us directly at 510-644-3123 if you have any questions.

Sincerely,



Bruce M. Rucker, R.G., R.E.A.,
Project Manager

Attachments: Tables showing EDC analytical results in soil and groundwater, and certified analytical lab report

**March 2004 Borehole Soil Analytical Results ($\mu\text{g}/\text{Kg}$) -
Ethylene Dichloride
1451 32nd Street, Oakland, California ^(a)**

Sample I.D.	Sample Depth (feet)	EDC
BH-01-14'	14	< 25
BH-01-23'	23	< 5
BH-02-11.5'	11.5	< 5
BH-02-15.5'	15.5	< 5
BH-02-23'	23	< 5
BH-03-17'	17	< 5
BH-03-20'	20	< 5
BH-04-17.5'	17	< 5
BH-04-20.5'	20.5	< 5
BH-05-18.5'	18.5	< 5
BH-05-23.5'	23.5	< 5
BH-06-15.5'	15.5	< 5
BH-06-19'	19	< 5
BH-07-19'	19	< 5
BH-07-23'	23	< 5
	Soil ESLs ^(a)	0.33
	Soil ESLs ^(b)	21

Alameda County
MAY 18 2004
Environmental Health

Notes:

EDC = Ethylene dichloride, a.k.a. 1,2-dichloroethane

^(a) For commercial/industrial sites where groundwater is a current or potential drinking water source.

^(b) For commercial/industrial sites where groundwater is not a current or potential drinking water source.

**March 2004 Borehole Groundwater Analytical Results ($\mu\text{g/L}$) -
Ethylene Dichloride
1451 32nd Street, Oakland**

Sample I.D.	EDC
BH-01-GW	< 500
BH-02-GW	< 50
BH-03-GW	< 5
BH-04-GW	< 125
BH-05-GW	< 5
BH-06-GW	< 5
BH-07-GW	< 5
BH-08-GW	< 5
BH-09-GW	< 5
Groundwater ESLs ^(a)	0.05
Groundwater ESLs ^(b)	160

Notes:

EDC = Ethylene dichloride, a.k.a. 1,2-dichloroethane

^(a) For commercial/industrial sites where a drinking water resource is threatened.

^(b) For commercial/industrial sites where a drinking water resource is not threatened.



ASSOCIATED LABORATORIES

806 North Batavia - Orange, California 92868 - 714/771-6900

FAX 714/538-1209

CLIENT Stellar Environmental Solutions (10503)
ATTN: Bruce Rucker
2198 Sixth Street
#201
Berkeley, CA 94710

LAB REQUEST 128867

REPORTED 05/07/2004

RECEIVED 03/25/2004

PROJECT Atlas Heating & Air Conditioning

SUBMITTER Client

COMMENTS

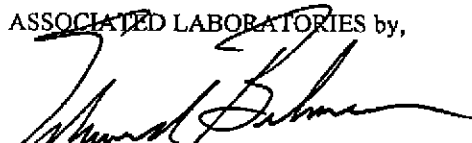
AL
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Environ...

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

<u>Order No.</u>	<u>Client Sample Identification</u>
518788	BH-01-14
518789	BH-01-GW
518790	BH-01-23
518791	BH-02-11.5
518792	BH-02-15.5
518793	BH-02-23
518794	BH-02-GW
518795	BH-03-17
518796	BH-03-GW
518797	BH-03-20
518798	BH-04-17.5
518799	BH-04-GW
518800	BH-04-20.5
518801	BH-05-18.5
518802	BH-05-GW
518803	BH-05-23.5

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,


Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental



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COMMENTS

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<u>Order No.</u>	<u>Client Sample Identification</u>
518804	BH-06-15.5
518805	BH-06-19
518806	BH-06-GW
518807	BH-07-19
518808	BH-07-GW
518809	BH-07-23
518810	BH-08-17
518811	BH-08-GW
518812	BH-09-18
518813	BH-09-GW
518814	BH-09-23
518815	Laboratory Method Blank-S
518816	Laboratory Method Blank-W

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,


Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 518788

Client Sample ID: BH-01-14

Matrix: SOLID

Date Sampled: 03/23/2004

Time Sampled: 08:30

Analyte

Result

DLR

Units

Date/Analyst

8260B Volatile Organic Compounds

1,2-Dichloroethane	ND	25.0	ug/Kg	03/31/04	LB
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Order #: 518789

Client Sample ID: BH-01-GW

Matrix: WATER

Date Sampled: 03/23/2004

Time Sampled: 08:35

Analyte

Result

DLR

Units

Date/Analyst

8260B Volatile Organic Compounds

1,2-Dichloroethane	ND	500.0	ug/L	03/28/04	LB
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Order #: 518790

Client Sample ID: BH-01-23

Matrix: SOLID

Date Sampled: 03/23/2004

Time Sampled: 08:50

Analyte

Result

DLR

Units

Date/Analyst

8260B Volatile Organic Compounds

1,2-Dichloroethane	ND	5	ug/Kg	03/29/04	LB
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Order #: 518791

Client Sample ID: BH-02-11.5

Matrix: SOLID

Date Sampled: 03/23/2004

Time Sampled: 09:25

Analyte

Result

DLR

Units

Date/Analyst

8260B Volatile Organic Compounds

1,2-Dichloroethane	ND	5	ug/Kg	03/30/04	LB
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Order #: 518792

Client Sample ID: BH-02-15.5

Matrix: SOLID

Date Sampled: 03/23/2004

Time Sampled: 09:40

Analyte	Result	DLR	Units	Date/Analyst
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8260B Volatile Organic Compounds

1,2-Dichloroethane	ND	5	ug/Kg	03/30/04 LB
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Order #: 518793

Client Sample ID: BH-02-23

Matrix: SOLID

Date Sampled: 03/23/2004

Time Sampled: 09:50

Analyte	Result	DLR	Units	Date/Analyst
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8260B Volatile Organic Compounds

1,2-Dichloroethane	ND	5	ug/Kg	03/30/04 LB
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Order #: 518794

Client Sample ID: BH-02-GW

Matrix: WATER

Date Sampled: 03/23/2004

Time Sampled: 10:00

Analyte	Result	DLR	Units	Date/Analyst
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8260B Volatile Organic Compounds

1,2-Dichloroethane	ND	50.0	ug/L	03/28/04 LB
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Order #: 518795

Client Sample ID: BH-03-17

Matrix: SOLID

Date Sampled: 03/23/2004

Time Sampled: 10:30

Analyte	Result	DLR	Units	Date/Analyst
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8260B Volatile Organic Compounds

1,2-Dichloroethane	ND	5	ug/Kg	03/30/04 LB
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Order #: 518796

Client Sample ID: BH-03-GW

Matrix: WATER

Date Sampled: 03/23/2004

Time Sampled: 10:40

Analyte

Result

DLR

Units

Date/Analyst

8260B Volatile Organic Compounds

1,2-Dichloroethane	ND	5	ug/L	03/28/04	LB
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Order #: 518797

Client Sample ID: BH-03-20

Matrix: SOLID

Date Sampled: 03/23/2004

Time Sampled: 10:50

Analyte

Result

DLR

Units

Date/Analyst

8260B Volatile Organic Compounds

1,2-Dichloroethane	ND	5	ug/Kg	03/30/04	LB
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Order #: 518798

Client Sample ID: BH-04-17.5

Matrix: SOLID

Date Sampled: 03/23/2004

Time Sampled: 11:15

Analyte

Result

DLR

Units

Date/Analyst

8260B Volatile Organic Compounds

1,2-Dichloroethane	ND	5	ug/Kg	03/30/04	LB
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Order #: 518799

Client Sample ID: BH-04-GW

Matrix: WATER

Date Sampled: 03/23/2004

Time Sampled: 11:25

Analyte

Result

DLR

Units

Date/Analyst

8260B Volatile Organic Compounds

1,2-Dichloroethane	ND	125.0	ug/L	03/28/04	LB
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Order #:

Client Sample ID: BH-04-20.5

Matrix: SOLID

Date Sampled: 03/23/2004

Time Sampled: 11:30

Analyte

Result

DLR

Units

Date/Analyst

8260B Volatile Organic Compounds

1,2-Dichloroethane	ND	5	ug/Kg	03/30/04	LB
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Order #:

Client Sample ID: BH-05-18.5

Matrix: SOLID

Date Sampled: 03/23/2004

Time Sampled: 12:15

Analyte

Result

DLR

Units

Date/Analyst

8260B Volatile Organic Compounds

1,2-Dichloroethane	ND	5	ug/Kg	03/30/04	LB
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Order #:

Client Sample ID: BH-05-GW

Matrix: WATER

Date Sampled: 03/23/2004

Time Sampled: 12:20

Analyte

Result

DLR

Units

Date/Analyst

8260B Volatile Organic Compounds

1,2-Dichloroethane	ND	5	ug/L	03/28/04	LB
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Order #:

Client Sample ID: BH-05-23.5

Matrix: SOLID

Date Sampled: 03/23/2004

Time Sampled: 12:25

Analyte

Result

DLR

Units

Date/Analyst

8260B Volatile Organic Compounds

1,2-Dichloroethane	ND	5	ug/Kg	03/30/04	LB
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Order #:

Client Sample ID: BH-06-15.5

Matrix: SOLID

Date Sampled: 03/23/2004

Time Sampled: 13:05

Analyte	Result	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds				
1,2-Dichloroethane	ND	5	ug/Kg	03/31/04 LB

Order #:

Client Sample ID: BH-06-19

Matrix: SOLID

Date Sampled: 03/23/2004

Time Sampled: 13:10

Analyte	Result	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds				
1,2-Dichloroethane	ND	5	ug/Kg	03/31/04 LB

Order #:

Client Sample ID: BH-06-GW

Matrix: WATER

Date Sampled: 03/23/2004

Time Sampled: 13:15

Analyte	Result	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds				
1,2-Dichloroethane	ND	5	ug/L	03/28/04 LB

Order #:

Client Sample ID: BH-07-19

Matrix: SOLID

Date Sampled: 03/23/2004

Time Sampled: 13:40

Analyte	Result	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds				
1,2-Dichloroethane	ND	5	ug/Kg	03/31/04 LB

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Order #: 518808

Client Sample ID: BH-07-GW

Matrix: WATER

Date Sampled: 03/23/2004

Time Sampled: 13:45

Analyte

Result

DLR

Units

Date/Analyst

8260B Volatile Organic Compounds

1,2-Dichloroethane	ND	5	ug/L	03/28/04	LB
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Order #: 518809

Client Sample ID: BH-07-23

Matrix: SOLID

Date Sampled: 03/23/2004

Time Sampled: 14:00

Analyte

Result

DLR

Units

Date/Analyst

8260B Volatile Organic Compounds

1,2-Dichloroethane	ND	5	ug/Kg	03/31/04	LB
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Order #: 518811

Client Sample ID: BH-08-GW

Matrix: WATER

Date Sampled: 03/23/2004

Time Sampled: 14:40

Analyte

Result

DLR

Units

Date/Analyst

8260B Volatile Organic Compounds

1,2-Dichloroethane	ND	5	ug/L	03/31/04	LB
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Order #: 518813

Client Sample ID: BH-09-GW

Matrix: WATER

Date Sampled: 03/23/2004

Time Sampled: 15:20

Analyte

Result

DLR

Units

Date/Analyst

8260B Volatile Organic Compounds

1,2-Dichloroethane	ND	5	ug/L	03/31/04	LB
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Order #: 518814

Client Sample ID: BH-09-23

Matrix: SOLID

Date Sampled: 03/23/2004

Time Sampled: 15:30

Analyte

Result

DLR

Units

Date/Analyst

8260B Volatile Organic Compounds

1,2-Dichloroethane	ND	5	ug/Kg	03/31/04	LB
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Order #: 518815

Client Sample ID: Laboratory Method Blank-S

Matrix: SOLID

Analyte

Result

DLR

Units

Date/Analyst

8260B Volatile Organic Compounds

1,2-Dichloroethane	ND	5	ug/Kg	03/29/04	LB
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Order #: 518816

Client Sample ID: Laboratory Method Blank-W

Matrix: WATER

Analyte

Result

DLR

Units

Date/Analyst

8260B Volatile Organic Compounds

1,2-Dichloroethane	ND	5	ug/L	03/27/04	LB
--------------------	----	---	------	----------	----

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



ASSOCIATED LABORATORIES
LCS REPORT FORM - METHOD 8260 / 624 / 524.2

QC Sample: LCS/LCSD - Water Samples
 Analysis Date: 03/27/04
 Applies to: LR 126630, 126595, 126636, 126689, 126523, 126719, 128867

Reporting Units = ug/L

Lab Controlled Spike / Lab Controlled Spike Duplicate

Test	Sample Result	Spike Added	LCS Spike	LCS Spk. Dup	%Rec LCS	%Rec LCS D	RPD	QC Limits	
								RPD	%REC
1,1-Dichloroethene	ND	50	56.48	56.75	113	114	0	22	59-172
MTBE	ND	50	48.12	50.38	96	101	5	24	62-137
Benzene	ND	50	49.86	51.90	100	104	4	24	62-137
Trichloroethene	ND	50	55.02	62.35	110	125	12	21	66-142
Toluene	ND	50	51.14	51.98	102	104	2	21	59-139
Chlorobenzene	ND	50	50.04	51.35	100	103	3	21	60-133

Method Blank = All ND

SURROGATE (QC Limits : 70-135)

Compounds	DBFM	1,2-DCA	Tol-d8	p-BFB
LCS	111	108	102	106
LCSD	110	110	105	104
BLANK # 3	109	118	102	123
BLANK # 4	108	118	104	123

ASSOCIATED LABORATORIES
LCS REPORT FORM - METHOD 8260 / 624 / 524.2

QC Sample: LCS/LCSD - Water Samples

Analysis Date: 03/28/04

Applies to: LR 126719, 128867

Reporting Units = ug/L

Lab Controlled Spike / Lab Controlled Spike Duplicate

Test	Sample Result	Spike Added	LCS Spike	LCS Spk. Dup	%Rec LCS	%Rec LCS D	RPD	QC Limits	
								RPD	%REC
1,1-Dichloroethene	ND	50	56.43	56.81	113	114	1	22	59-172
MTBE	ND	50	48.29	50.73	97	101	5	24	62-137
Benzene	ND	50	48.97	51.01	98	102	4	24	62-137
Trichloroethene	ND	50	55.00	55.79	110	112	1	21	66-142
Toluene	ND	50	50.76	51.05	102	102	1	21	59-139
Chlorobenzene	ND	50	48.96	49.64	98	99	1	21	60-133

Method Blank = All ND

SURROGATE (QC Limits : 70-135)

Compounds	DBFM	1,2-DCA	Tol-d8	p-BFB
LCS	111	106	102	104
LCSD	110	110	102	104
BLANK # 5	109	118	106	122

ASSOCIATED LABORATORIES
LCS REPORT FORM - METHOD 8260 / 624 / 524.2

QC Sample: LCS/LCSD - Soil Samples
 Analysis Date: 03/29/04
 Applies to: LR 126740, 126719, 128867

Reporting Units = ug/Kg

Lab Controlled Spike / Lab Controlled Spike Duplicate

Test	Sample Result	Spike Added	LCS Spike	LCS Spk. Dup	%Rec LCS	%Rec LCS D	RPD	QC Limits	
								RPD	%REC
I,1-Dichloroethene	ND	50	60.20	56.38	120	113	7	22	59-172
MTBE	ND	50	50.65	49.25	101	99	3	24	62-137
Benzene	ND	50	52.99	50.40	106	101	5	24	62-137
Trichloroethene	ND	50	57.49	56.04	115	112	3	21	66-142
Toluene	ND	50	51.89	51.76	104	104	0	21	59-139
Chlorobenzene	ND	50	51.71	49.53	103	99	4	21	60-133

Method Blank = All ND

SURROGATE (QC Limits : 70-135)

Compounds	DBFM	1,2-DCA	Tol-d8	p-BFB
LCS	119	98	102	99
LCSD	116	108	100	102
BLANK # 2	109	117	100	117

ASSOCIATED LABORATORIES
QA REPORT FORM - METHOD 8260 / 624 / 524.2

QC Sample: MS / MSD - Solid Samples 126386-744

Analysis Date: 03/30/04

Applies to: LR 126315, 126386, 126719, 128867

Reporting Units = ug/Kg

Matrix Spike / Matrix Spike Duplicate

Test	Sample Result	Spike Added	Matrix Spike	Matrix Spk. Dup	%Rec MS	%Rec MSD	RPD	QC Limits	
								RPD	%REC
I,1-Dichloroethene	ND	50	54.95	53.69	110	107	2	22	59-172
MTBE	ND	50	43.99	44.45	88	89	1	24	62-137
Benzene	ND	50	48.17	46.09	96	92	4	24	62-137
Trichloroethene	ND	50	53.99	52.57	108	105	3	21	66-142
Toluene	ND	50	48.71	46.97	97	94	4	21	59-139
Chlorobenzene	ND	50	48.59	46.35	97	93	5	21	60-133

QC Sample: LCS/LCSD

Analysis Date: 03/30/04

Lab Controlled Spike / Lab Controlled Spike Duplicate

Test	Sample Result	Spike Added	LCS Spike	LCS Spk. Dup	%Rec LCS	%Rec LCS D	RPD	QC Limits	
								RPD	%REC
I,1-Dichloroethene	ND	50.0	56.75	60.22	114	120	6	22	59-172
MTBE	ND	50.0	50.05	52.72	100	105	5	24	62-137
Benzene	ND	50.0	52.02	53.05	104	106	2	24	62-137
Trichloroethene	ND	50.0	57.89	57.99	116	116	0	21	66-142
Toluene	ND	50.0	51.99	53.83	104	108	3	21	59-139
Chlorobenzene	ND	50.0	53.17	54.01	106	108	2	21	60-133

Method Blank = All ND

SURROGATE (QC Limits : 70-135)

Compounds	DBFM	1,2-DCA	Tol-d8	p-BFB
MS	119	109	104	94
MSD	116	109	104	104
LCS	113	99	100	100
LCSD	123	104	102	101
BLANK # 4	110	117	102	106
BLANK # 5	111	115	106	113