SEVERN TRENT SERVICES

STL Los Angeles
1721 South Grand Avenue
Santa Ana, CA 92705-4808

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August 29, 2001

STL LOT NUMBER: E1H270196
NELAC Certification Number: 01118CA
PO/CONTRACT: 05160-SEV002-S56

Scott Zachary
Haley & Aldrich Inc
9040 Friars Road
Suite 220
San Diego, CA 92108

Dear Mr. Zachary,

This report contains the analytical results for the 15 samples received under chain of custody by STL Los Angeles on August 27, 2001. These samples are associated with your BRC former C-6 Torrance Harbor Gateway project.

All applicable quality control procedures met method-specified acceptance criteria. See Project Receipt Checklist for container temperature and conditions. Temperature reading between 2 to 6 degrees Celsius is considered within acceptable criteria. Any matrix related anomaly is footnoted within the report. The PAHs by 8310 analysis was performed by Del Mar Analytical. See attached report for any related anomaly.

STL Los Angeles certifies that the tests performed at our facility meet all the requirements of NELAC. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at (714) 258-8610 extension 309.

Sincerely,

Diane Suzuki
Project Manager
CC: Project File

This report contains 000067 pages.

STL Los Angeles is a part of Severn Trent Laboratories, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

BOE-C6-0231221

Chain of Custody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client: HALEY & ALDRICH	Project Manager: SCOTT ZACHARY	Date: 8/27/01	Chain of Custody Number: 054147
Address: 9040 FRIARS RD, SUITE 220	Telephone Number (Area Code)/Fax Number: 619-280-9210	Lab Number: E1H270/96	Page 1 of 2
City: SAN DIEGO; State: CA; Zip Code: 92108	Site Contact:	Lab Contact:	
Project Name and Location (State): BOEING C6 - TORRANCE	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: 27285-001			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNOS	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): ARSENIC	Special Instructions/ Conditions of Receipt
PD-154-1'	8/27/01	1200				X	X						X	
PD-155-1'														
PD-155-4'														
PD-156-1'														
PD-156-4'														
PD-157-1'														
PD-157-4'														
PD-158-4'														
PD-159-4'														
PD-160-4'														
PD-161-1'														
PD-161-3'														

200000

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other ____

QC Requirements (Specify):

1. Relinquished By	Date: 8/27/01	Time: 4:30	1. Received By	Date: 8/27/01	Time: 17:00
2. Relinquished By	Date: 8-27-01	Time: 18:00	2. Received By	Date: 8/27/01	Time: 18:00
3. Relinquished By	Date:	Time:	3. Received By	Date:	Time:

Comments:

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

BOE-C6-0231222

Chain of Custody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client: HALEY & ALDRICH	Project Manager: SCOTT ZACHARY	Date: 8/27/01	Chain of Custody Number: 054148
Address: 9040 FRIARS RD, SUITE 220	Telephone Number (Area Code)/Fax Number: 619-280-9210	Lab Number: E1H270196	Page 2 of 2
City: SAN DIEGO; State: CA; Zip Code: 92108	Site Contact	Lab Contact	
Project Name and Location (State): BOEING C6 - TORRANCE	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: 27285-001			

Analysis (Attach list if more space is needed): ARSENIC; VOCs + TICs; TPH; PAH; METALS

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	ARSENIC	VOCs + TICs	TPH	PAH	METALS	Special Instructions/ Conditions of Receipt
PD-162-4'	8/27/01	12:00				X	X						X					24HR TURN AROUND
PD-163-4'	↓	↓				X	X						X					
SP-18-082701-1	8/27/01	3:70				X	X							X	X	X	X	48HR TURN AROUND

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other SEE ABOVE

QC Requirements (Specify)

1. Relinquished By	Date 8/27/01	Time 4:30	1. Received By	Date 8-27-01	Time 1700
2. Relinquished By	Date 8-27-01	Time 1700	2. Received By	Date 8/27/01	Time 18:00
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

000003

BOE-C6-0231223

STL LOS ANGELES
PROJECT RECEIPT CHECKLIST

Date: 8/27/01

Quantims Lot #: EH270196
Quote #: 4229T
Client Name: Haley & Aldrich
Project: Boeing C-6
Received by: [illegible]
Date/Time Received: 8/27/01 12:00
Delivered by : ☐Client ☐Airborne ☐Fed Ex ☐DHL ☒In-House Courier ☐Rey B. ☐UPS ☐DES ☐Other _____

	Initial / Date
Custody Seal Status: ☐Intact ☐Broken ☒None	AOR 8/27/01
Custody Seal #(s): ☒No Seal #	
Sample Container(s): ☒STL-LA & ☒Client ☐N/A	
Temperature(s) (COOLER/BLANK) in °C: 4.0°C (CORRECTED TEMP) 4.2°C	
Thermometer Used : ☒IR (Infra-red) ☐Digital (Probe)	
Samples: ☒Intact ☐Broken ☐Other	
Anomalies: ☒No ☐Yes (See Clouseau)	
Labeled by AOR	
Labeling checked by	

Turn Around Time: ☒RUSH-24HR ☐RUSH-48HR ☐RUSH-72HR ☐NORMAL
Short-Hold Notification: ☐Ph ☐Wet Chem ☐Metals (Filter/Pres) ☐Encore ☒N/A ✓
Outside Analysis(es) (Test/Lab/Date Sent Out) : — 8310 to Del Mar Calibra

********** LEAVE NO BLANK SPACES ; USE N/A **********

Fraction	1→14	15									PH
VOAh 1*											N/A
40 CGJ	1										—
Sleeve		1									—

h:HCl na:Sodium Hydoxide zana:Zinc Acetate/Sodium Hydroxide s: H2SO4 n:HNO3 n/f:HNO3-Field filtered n/f/l:HNO3-Lab filtered
CGJ:Clear Glass Jar CGB:Clear Glass Bottle AGJ:Amber Glass Jar AGB:Amber Glass Bottle PB: Poly Bottle E:Encore Sampler V:VOA SL:Sleeve
*** Number of VOA's w/ Headspace present**

LOGGED BY/DATE: [illegible] 8/27/01 REVIEWED BY/DATE: [illegible] 8/27/01

000004

EXECUTIVE SUMMARY - Detection Highlights

E1H270196

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
PD_154_1 08/27/01 12:00 001				
Arsenic	9.0	1.0	mg/kg	SW846 6010B
PD_155_1 08/27/01 12:00 002				
Arsenic	169	1.0	mg/kg	SW846 6010B
PD_155_4 08/27/01 12:00 003				
Arsenic	2.9	1.0	mg/kg	SW846 6010B
PD_156_1 08/27/01 12:00 004				
Arsenic	190	1.0	mg/kg	SW846 6010B
PD_156_4 08/27/01 12:00 005				
Arsenic	3.0	1.0	mg/kg	SW846 6010B
PD_157_1 08/27/01 12:00 006				
Arsenic	10.3	1.0	mg/kg	SW846 6010B
PD_157_4 08/27/01 12:00 007				
Arsenic	8.5	1.0	mg/kg	SW846 6010B
PD_158_4 08/27/01 12:00 008				
Arsenic	7.2	1.0	mg/kg	SW846 6010B
PD_159_4 08/27/01 12:00 009				
Arsenic	7.4	1.0	mg/kg	SW846 6010B
PD_160_4 08/27/01 12:00 010				
Arsenic	3.7	1.0	mg/kg	SW846 6010B
PD_161_1 08/27/01 12:00 011				
Arsenic	9.9	1.0	mg/kg	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E1H270196

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
PD_161_3 08/27/01 12:00 012				
Arsenic	2.9	1.0	mg/kg	SW846 6010B
PD_162_4 08/27/01 12:00 013				
Arsenic	3.4	1.0	mg/kg	SW846 6010B
PD_163_4 08/27/01 12:00 014				
Arsenic	5.8	1.0	mg/kg	SW846 6010B
SP_18_082701_1 08/27/01 15:30 015				
C18-C19	7.1 J	10	mg/kg	SW846 8015B
C20-C23	5.1 J	10	mg/kg	SW846 8015B
Total Carbon Chain Range	21	10	mg/kg	SW846 8015B
Mercury	0.023 B	0.10	mg/kg	SW846 7471A
Aluminum	22400	20.0	mg/kg	SW846 6010B
Barium	135	2.0	mg/kg	SW846 6010B
Cadmium	0.62	0.50	mg/kg	SW846 6010B
Chromium	25.7	1.0	mg/kg	SW846 6010B
Beryllium	0.68	0.50	mg/kg	SW846 6010B
Lead	6.0	0.50	mg/kg	SW846 6010B
Cobalt	11.4	5.0	mg/kg	SW846 6010B
Copper	19.8	2.5	mg/kg	SW846 6010B
Nickel	17.5	4.0	mg/kg	SW846 6010B
Vanadium	50.5	5.0	mg/kg	SW846 6010B
Zinc	52.5	2.0	mg/kg	SW846 6010B
Arsenic	3.0	1.0	mg/kg	SW846 6010B

SEVERN TRENT LABORATORIES, INC.

PRELIMINARY DATA SUMMARY

The results shown below may still require additional laboratory review and are subject to change. Actions taken based on these results are the responsibility of the data user.

Haley & Aldrich Inc

Lot #: E1F260290 BRC C-6, Torrance HaleyAldrich **Date Reported:** 7/03/01

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Client Sample ID: BUILD_1_E_8_062601_21					
Sample #: 021 Date Sampled: 06/26/01 16:12 Date Received: 06/26/01 Matrix: SOLID					
Inductively Coupled Plasma (ICP) Metals					Reviewed
Arsenic	**4.4**	**1.0**	**mg/kg**	**SW846 6010B**	
Client Sample ID: BUILD_1_E_8_062601_16					
Sample #: 022 Date Sampled: 06/26/01 16:17 Date Received: 06/26/01 Matrix: SOLID					
Inductively Coupled Plasma (ICP) Metals					Reviewed
Arsenic	**5.0**	**1.0**	**mg/kg**	**SW846 6010B**	
Client Sample ID: BUILD_1_E_8_062601_15					
Sample #: 023 Date Sampled: 06/26/01 16:20 Date Received: 06/26/01 Matrix: SOLID					
Inductively Coupled Plasma (ICP) Metals					Reviewed
Arsenic	**3.8**	**1.0**	**mg/kg**	**SW846 6010B**	
Client Sample ID: BUILD_1_E_8_062601_20					
Sample #: 024 Date Sampled: 06/26/01 16:23 Date Received: 06/26/01 Matrix: SOLID					
Inductively Coupled Plasma (ICP) Metals					Reviewed
Arsenic	**3.1**	**1.0**	**mg/kg**	**SW846 6010B**	
Client Sample ID: BUILD_1_E_8_062601_18					
Sample #: 025 Date Sampled: 06/26/01 16:27 Date Received: 06/26/01 Matrix: SOLID					
Inductively Coupled Plasma (ICP) Metals					Reviewed
Arsenic	**3.7**	**1.0**	**mg/kg**	**SW846 6010B**	

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ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 **Project No: 974002.00** **REPORTING UNITS : µg/Kg**

DATE ANALYZED			4/17/97	4/17/97	4/17/97	4/17/97	4/17/97	4/17/97	4/17/97
DATE EXTRACTED			N/A	N/A	N/A	N/A	N/A	N/A	N/A
LAB SAMPLE ID			1D061-57	1D061-58	1D061-59	1D061-60	1D061-61	1D061-62	1D061-63
CLIENT SAMPLE ID : 2BB-			6-13-20	6-13-25	1-6-1	1-6-4	1-6-10	1-6-20	1-6-30
EXTRACTION SOLVENT									
EXTRACTION METHOD									
DILUTION FACTOR			1	1	1	1	1	1	1
COMPOUND		CRDL							
Benzene		5	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		5	ND	ND	ND	ND	ND	ND	ND
Bromoform		5	ND	ND	ND	ND	ND	ND	ND
Bromomethane		5	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		5	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		5	ND	ND	ND	ND	ND	ND	ND
Chloroethane		5	ND	ND	ND	ND	ND	ND	ND
Chloroform		5	ND	ND	ND	ND	ND	ND	ND
Chloromethane		5	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		5	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		5	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		5	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		5	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		5	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		5	ND	ND	**110**	**34**	**13**	**140**	**300**
cis-1,2-Dichloroethene (c-1,2-DCE)		5	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		5	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		5	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		5	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		5	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		5	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		5	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		5	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		5	ND	ND	ND	ND	ND	ND	ND
Toluene		5	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		5	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		5	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		5	ND	ND	**5.5**	ND	ND	**21**	**89**
Trichlorofluoromethane (Freon 11)		5	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		5	ND	ND	ND	ND	ND	ND	ND
o-Xylene		5	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		5	ND	ND	ND	ND	ND	ND	ND
TPH as gasoline		1000	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-120%	118%	113%	111%	92%	105%	107%	106%
Toluene-d8	50	80%-115%	106%	105%	104%	106%	104%	105%	105%
4-Bromofluorobenzene	50	75%-125%	99%	100%	98%	100%	97%	99%	98%

Notes :

ND - Analytes not detected at, or above the stated detection limit
PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample
M - Matrix effect confirmed

Gareth Voigt
Laboratory Director

MAY 0 6 1997
Date

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