



# CHAIN OF CUSTODY RECORD

**ADVANCED TECHNOLOGY LABORATORIES**  
 3275 Walnut Ave., Signal Hill, CA 90755  
 Tel: (562) 989-4045 • Fax: (562) 989-4040

P.O.#: \_\_\_\_\_ Quote #: \_\_\_\_\_  
 Logged By: \_\_\_\_\_ Date: \_\_\_\_\_

NOTE: Please include your Quote No. to ensure proper pricing of your project.

**FOR LABORATORY USE ONLY:**

Method of Transport:  Client  ATL  FedEx  OnTrac  GSO  Other: \_\_\_\_\_

Sample Condition Upon Receipt: 1. CHILLED Y  N  4. SEALED Y  N   
 2. HEADSPACE (VOA) Y  N  5. # OF SPLS MATCH COC Y  N   
 3. CONTAINER INTACT Y  N  6. PRESERVED Y  N

Client: **mactec** Address: **2171 Campus Dr. Ste. 100** (City) **Irvine Ca** (State) **92614** (Zip Code) (FAX) **(949) 224-0050**

Attn: **Jay Neuhaus**

Project Name: **MTA Westside** Project #: **4953-10-1561** Sampler: **Rachel/O'iego** (Signature) **[Signature]**

Relinquished by: **Rachel Mills** (Printed Name) Date: **7/13/11** Time: **11:35** Received by: **Rachel/O'iego** (Signature and Printed Name) Date: **7/13/11** Time: **11:35**

Relinquished by: **Rachel Mills** (Signature and Printed Name) Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: \_\_\_\_\_ (Signature and Printed Name) Date: \_\_\_\_\_ Time: \_\_\_\_\_

I hereby authorize ATL to perform the work indicated below:  
 Project Mgr./Submitter: **[Signature]**  
 Print Name: **Rachel Mills** Date: **7/13/11**  
 Signature: **[Signature]**

Send Report To: Attn: **Mactec** Co: **Jay Neuhaus** Addr: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Bill To: \_\_\_\_\_ Attn: **(same)** Co: \_\_\_\_\_ Addr: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Special Instructions/Comments: \_\_\_\_\_

**Sample/Records - Archival & Disposal**  
 Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

**Storage Fees (applies when storage is requested):**  
 • Sample : \$2.00 / sample / mo (after 45 days)  
 • Records : \$1.00 / ATL workorder / mo (after 1 year)

LAB USE ONLY: Batch #: Lab No.	Sample Description	Sample I.D. / Location	Date	Time	SPECIFY APPROPRIATE MATRIX		QA/QC
					Container(s)	TAT # Type	
118907 - 1	M-124	7/13/11	9:30	1	500 ML N	E	RTNE <input type="checkbox"/> CT <input type="checkbox"/> Legal <input type="checkbox"/> SWRCB <input type="checkbox"/> Logcode <input type="checkbox"/> OTHER <input type="checkbox"/>
	M-124		9:55	1	500 ML Amber	E	
	M-124		9:30	1	500 ML	E	
	M-124		9:45	2	500 ML Amber	E	

**TAT:**  A= Overnight ≤ 24 hrs  B= Emergency Next workday  C= Critical 2 Workdays  D= Urgent 3 Workdays  E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=HCl N=HNO<sub>3</sub> S=H<sub>2</sub>SO<sub>4</sub> C=4°C Z=Zn(AC)<sub>2</sub> O=NaOH T=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>

Figure G-3.10.54

July 20, 2011



Jay Neuhaus  
MACTEC  
2171 Campus Drive, Suite 100  
Irvine, CA 92612  
TEL: (949) 224-0050  
FAX:

ELAP No.: 1838  
NELAP No.: 02107CA  
CSDLAC No.: 10196  
ORELAP No.: CA300003

Workorder No.: 118889

RE: MTA Westside, 4953-10-1561

Attention: Jay Neuhaus

Enclosed are the results for sample(s) received on July 12, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

A handwritten signature in black ink, appearing to read "Eddie F. Rodriguez", written over a light blue horizontal line.

Eddie F. Rodriguez  
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



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**CLIENT:** MACTEC  
**Project:** MTA Westside, 4953-10-1561  
**Lab Order:** 118889

**CASE NARRATIVE**

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The samples for EPA 1516 analysis was subcontracted to Air Technology Lab.



**Advanced Technology Laboratories**

**ANALYTICAL RESULTS**

Print Date: 20-Jul-11

**CLIENT:** MACTEC  
**Lab Order:** 118889  
**Project:** MTA Westside, 4953-10-1561  
**Lab ID:** 118889-001A

**Client Sample ID:** M-124-35'  
**Collection Date:** 7/12/2011 8:00:00 AM  
**Matrix:** SOIL VAPOR

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**GASES BY GAS CHROMATOGRAPHY**

**ASTM D1946**

RunID: GC18_110713A	QC Batch: Z11A033	PrepDate:	Analyst: DMP
Methane	690	10 ppmv	1
			7/13/2011 09:34 AM

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



**Advanced Technology Laboratories**

**ANALYTICAL RESULTS**

Print Date: 20-Jul-11

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<b>CLIENT:</b>	MACTEC	<b>Client Sample ID:</b>	M-108-10'
<b>Lab Order:</b>	118889	<b>Collection Date:</b>	7/12/2011 11:15:00 AM
<b>Project:</b>	MTA Westside, 4953-10-1561	<b>Matrix:</b>	SOIL VAPOR
<b>Lab ID:</b>	118889-002A		

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Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**GASES BY GAS CHROMATOGRAPHY**

**ASTM D1946**

RunID: GC18_110713A	QC Batch: Z11A033	PrepDate:	Analyst: <b>DMP</b>	
Methane	900000	10000 ppmv	1000	7/13/2011 12:01 PM

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<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



**Advanced Technology Laboratories**

**ANALYTICAL RESULTS**

Print Date: 20-Jul-11

**CLIENT:** MACTEC  
**Lab Order:** 118889  
**Project:** MTA Westside, 4953-10-1561  
**Lab ID:** 118889-003A

**Client Sample ID:** M-114  
**Collection Date:** 7/12/2011 11:00:00 AM  
**Matrix:** GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID:	MS2_110713A	QC Batch:	Q11VW129	PrepDate:	Analyst:	SLL
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1	7/13/2011 11:43 AM	
1,1,1-Trichloroethane	ND	0.50	µg/L	1	7/13/2011 11:43 AM	
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1	7/13/2011 11:43 AM	
1,1,2-Trichloroethane	ND	0.50	µg/L	1	7/13/2011 11:43 AM	
1,1-Dichloroethane	ND	0.50	µg/L	1	7/13/2011 11:43 AM	
1,1-Dichloroethene	ND	0.50	µg/L	1	7/13/2011 11:43 AM	
1,1-Dichloropropene	ND	0.50	µg/L	1	7/13/2011 11:43 AM	
1,2,3-Trichlorobenzene	ND	0.50	µg/L	1	7/13/2011 11:43 AM	
1,2,3-Trichloropropane	ND	0.50	µg/L	1	7/13/2011 11:43 AM	
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1	7/13/2011 11:43 AM	
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1	7/13/2011 11:43 AM	
1,2-Dibromo-3-chloropropane	ND	0.50	µg/L	1	7/13/2011 11:43 AM	
1,2-Dibromoethane	ND	0.50	µg/L	1	7/13/2011 11:43 AM	
1,2-Dichlorobenzene	ND	0.50	µg/L	1	7/13/2011 11:43 AM	
1,2-Dichloroethane	ND	0.50	µg/L	1	7/13/2011 11:43 AM	
1,2-Dichloropropane	ND	0.50	µg/L	1	7/13/2011 11:43 AM	
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1	7/13/2011 11:43 AM	
1,3-Dichlorobenzene	ND	0.50	µg/L	1	7/13/2011 11:43 AM	
1,3-Dichloropropane	ND	0.50	µg/L	1	7/13/2011 11:43 AM	
1,4-Dichlorobenzene	ND	0.50	µg/L	1	7/13/2011 11:43 AM	
2,2-Dichloropropane	ND	0.50	µg/L	1	7/13/2011 11:43 AM	
2-Chlorotoluene	ND	0.50	µg/L	1	7/13/2011 11:43 AM	
4-Chlorotoluene	ND	0.50	µg/L	1	7/13/2011 11:43 AM	
4-Isopropyltoluene	ND	0.50	µg/L	1	7/13/2011 11:43 AM	
Benzene	3.4	0.50	µg/L	1	7/13/2011 11:43 AM	
Bromobenzene	ND	0.50	µg/L	1	7/13/2011 11:43 AM	
Bromodichloromethane	ND	0.50	µg/L	1	7/13/2011 11:43 AM	
Bromoform	ND	0.50	µg/L	1	7/13/2011 11:43 AM	
Bromomethane	ND	0.50	µg/L	1	7/13/2011 11:43 AM	
Carbon tetrachloride	ND	0.50	µg/L	1	7/13/2011 11:43 AM	
Chlorobenzene	ND	0.50	µg/L	1	7/13/2011 11:43 AM	
Chloroethane	ND	0.50	µg/L	1	7/13/2011 11:43 AM	
Chloroform	ND	0.50	µg/L	1	7/13/2011 11:43 AM	
Chloromethane	ND	0.50	µg/L	1	7/13/2011 11:43 AM	
cis-1,2-Dichloroethene	ND	0.50	µg/L	1	7/13/2011 11:43 AM	

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out

