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This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

WORK ORDER #: 0609089B

Work Order Summary

CLIENT: Mr. Demian Wincele
ERM-West
2525 Natomas Park Drive
Suite 350
Sacramento, CA 95833

BILL TO: Mr. Dave McCready
Aerojet
Bldg.2001 Dept. 0330
PO Box 13222
Sacramento, CA 95813

PHONE: 916-924-9378

FAX: 916-924-5313

DATE RECEIVED: 09/06/2006

DATE COMPLETED: 09/19/2006

P.O. #

PROJECT # 20648.03 Aerojet PGOU

CONTACT: Nicole Danbacher

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>
01A	34D-SP07-05	Modified ASTM D-1945	8.5 "Hg
02A(cancelled)	34D-SP07-10	Modified ASTM D-1945	0.2 psi
03A	34D-SP07-15	Modified ASTM D-1945	7.0 "Hg
04A	38D-SP23-05	Modified ASTM D-1945	9.0 "Hg
05A	38D-SP23-10	Modified ASTM D-1945	7.5 "Hg
06A	38D-SP23-15	Modified ASTM D-1945	8.0 "Hg
06AA	38D-SP23-15 Duplicate	Modified ASTM D-1945	8.0 "Hg
07A	Lab Blank	Modified ASTM D-1945	NA
08A	LCS	Modified ASTM D-1945	NA

CERTIFIED BY: 

DATE: 09/19/06

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/06, Expiration date: 06/30/07
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified ASTM D-1945
ERM-West
Workorder# 0609089B

Six 1 Liter Summa Canister samples were received on September 06, 2006. The laboratory performed analysis via modified ASTM Method D-1945 for Helium in natural gas using GC/TCD. The method involves direct injection of 1.0 mL of sample. See the data sheets for the reporting limit.

Method modifications taken to run these samples include:

<i>Requirement</i>	<i>ASTM D-1945</i>	<i>ATL Modifications</i>
Normalization	Sum of original values should not differ from 100.0% by more than 1.0%.	Sum of original values may range between 75-125%. Normalization of data not performed.
Sample analysis	Equilibrate samples to 20-50° F. above source temperature at field sampling	No heating of samples is performed.
Sample calculation	Response factor is calculated using peak height for C5 and lighter compounds.	Peak areas are used for all target analytes to quantitate concentrations.
Reference Standard	Concentration should not be < half of nor differ by more than 2 X the concentration of the sample. Run 2 consecutive checks; must agree within 1%.	A minimum 3-point linear calibration is performed. The acceptance criterion is %RSD <= 25%. All target analytes must be within the linear range of calibration (with the exception of O2, N2, and C6+ Hydrocarbons).
Sample Injection Volume	0.50 mL to achieve Methane linearity.	1.0 mL.

Receiving Notes

The summa canister for sample 34D-SP07-10 was leaking upon arrival. The client was notified and the analysis cancelled.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Six qualifiers may have been used on the data analysis sheets and indicate as follows:

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.



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Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the detection limit.

M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



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Summary of Detected Compounds NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

Client Sample ID: 34D-SP07-05

Lab ID#: 0609089B-01A

No Detections Were Found.

Client Sample ID: 34D-SP07-15

Lab ID#: 0609089B-03A

No Detections Were Found.

Client Sample ID: 38D-SP23-05

Lab ID#: 0609089B-04A

No Detections Were Found.

Client Sample ID: 38D-SP23-10

Lab ID#: 0609089B-05A

No Detections Were Found.

Client Sample ID: 38D-SP23-15

Lab ID#: 0609089B-06A

No Detections Were Found.

Client Sample ID: 38D-SP23-15 Duplicate

Lab ID#: 0609089B-06AA

No Detections Were Found.



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Client Sample ID: 34D-SP07-05

Lab ID#: 0609089B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9091317b	Date of Collection:	9/6/06
Dil. Factor:	2.82	Date of Analysis:	9/13/06 04:56 PM

Compound	Rpt. Limit (%)	Amount (%)
Helium	0.028	Not Detected

Container Type: 1 Liter Summa Canister



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Client Sample ID: 34D-SP07-15

Lab ID#: 0609089B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9091319b	Date of Collection:	9/6/06
Dil. Factor:	2.64	Date of Analysis:	9/13/06 06:08 PM

Compound	Rpt. Limit (%)	Amount (%)
Helium	0.026	Not Detected

Container Type: 1 Liter Summa Canister



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Client Sample ID: 38D-SP23-05

Lab ID#: 0609089B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9091320b	Date of Collection:	9/6/06
Dil. Factor:	2.89	Date of Analysis:	9/13/06 06:54 PM

Compound	Rpt. Limit (%)	Amount (%)
Helium	0.029	Not Detected

Container Type: 1 Liter Summa Canister



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Client Sample ID: 38D-SP23-10

Lab ID#: 0609089B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9091321b	Date of Collection:	9/6/06
Dil. Factor:	2.69	Date of Analysis:	9/13/06 07:23 PM

Compound	Rpt. Limit (%)	Amount (%)
Helium	0.027	Not Detected

Container Type: 1 Liter Summa Canister



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Client Sample ID: 38D-SP23-15

Lab ID#: 0609089B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9091322b	Date of Collection:	9/6/06
Dil. Factor:	2.76	Date of Analysis:	9/13/06 07:48 PM

Compound	Rpt. Limit (%)	Amount (%)
Helium	0.028	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: 38D-SP23-15 Duplicate

Lab ID#: 0609089B-06AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9091323b	Date of Collection:	9/6/06
Dil. Factor:	2.76	Date of Analysis:	9/13/06 08:13 PM

Compound	Rpt. Limit (%)	Amount (%)
Helium	0.028	Not Detected

Container Type: 1 Liter Summa Canister

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0609089B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9091307b	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/13/06 11:51 AM

Compound	Rpt. Limit (%)	Amount (%)
Helium	0.010	Not Detected

Container Type: NA - Not Applicable

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0609089B-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9091332b	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/14/06 06:12 AM

Compound	%Recovery
Helium	105

Container Type: NA - Not Applicable