



AN ENVIRONMENTAL ANALYTICAL LABORATORY

2/3/2009

Mr. Doug Herlocker
Tetra Tech
3380 Americana Terrace, Suite 201

Boise ID 83706

Project Name: BMI
Project #: 130P0333

Dear Mr. Doug Herlocker

The following report includes the data for the above referenced project for sample(s) received on 1/21/2009 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-4A are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

A handwritten signature in black ink that reads 'Kelly Buettner'.

Kelly Buettner
Project Manager



AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0901357A

Work Order Summary

CLIENT:	Mr. Doug Herlocker Tetra Tech 3380 Americana Terrace, Suite 201 Boise, ID 83706	BILL TO:	Mr. Doug Herlocker Tetra Tech 3380 Americana Terrace, Suite 201 Boise, ID 83706
PHONE:	208-389-1030	P.O. #	103P0333.005
FAX:		PROJECT #	130P0333 BMI
DATE RECEIVED:	01/21/2009	CONTACT:	Kelly Buettner
DATE COMPLETED:	02/03/2009		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>
01A	BMI11-012009	Modified TO-4A
04A	BMI06-012009	Modified TO-4A
07A	BMI11-012009BS	Modified TO-4A
08A	Lab Blank	Modified TO-4A
09A	LCS	Modified TO-4A

CERTIFIED BY:

Laboratory Director

DATE: 02/03/09

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,

Accreditation number: E87680, Effective date: 07/01/08, Expiration date: 06/30/09

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-4A
Tetra Tech
Workorder# 0901357A

Three PUF Cartridge samples were received on January 21, 2009. The laboratory performed analysis via Modified EPA Method TO-4A using GC/ECD. The PUF samples were extracted using Pressurized Fluid Extraction (PFE) by EPA Method 3545A. Following the extraction, the solvent is switched to hexane and the extract concentrated. Analysis is carried out on a HP 5890 GC/ECD and second column confirmation is used to positively identify pesticide results. Duplicate extraction cannot be performed on PUF media, therefore duplicate results are derived from analyzing the extract twice.

Method modifications taken to run these samples include:

<i>Requirement</i>	<i>Method TO-4A</i>	<i>ATL Modifications</i>
Extraction Solvent	10 % Diethyl Ether in Hexane	DCM, exchanging to Hexane during the concentration step.
Reagent Blank	Set up extraction system without filter/PUF; reflux with solvent	No Reagent Blank is extracted. Reagent lots are certified as acceptable prior to use.
Initial Calibration Verification (ICV)	Second source standard analyzed after ICAL; recovery 85 - 115 %	Recovery limits are 85-115% for pesticides; 80-120% for PCBs.
PCB Quantitation	Requires a minimum of 5 peaks	Use 4 peaks for quantitation.
Frequency of Continuing Calibration Verification	Every 10 samples.	Every 20 samples.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Sampling volume was supplied by the client. A sample volume of 460 m³ was assumed for all QC samples.

Definition of Data Qualifying Flags

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

B - Compound present in laboratory blank greater than reporting limit.

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

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 MODIFIED EPA METHOD TO-4A GC/ECD

Client Sample ID: BMI11-012009

Lab ID#: 0901357A-01A

Compound	Rpt. Limit (ug)	Rpt. Limit (uG/m3)	Amount (ug)	Amount (uG/m3)
alpha-BHC	0.10	0.00022	0.40	0.00088

Client Sample ID: BMI06-012009

Lab ID#: 0901357A-04A

Compound	Rpt. Limit (ug)	Rpt. Limit (uG/m3)	Amount (ug)	Amount (uG/m3)
alpha-BHC	0.10	0.00052	0.41	0.0021
4,4'-DDE	0.10	0.00052	0.11	0.00058

Client Sample ID: BMI11-012009BS

Lab ID#: 0901357A-07A

No Detections Were Found.



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BMI11-012009

Lab ID#: 0901357A-01A

MODIFIED EPA METHOD TO-4A GC/ECD

File Name:	8012310	Date of Collection:	1/20/09
Dil. Factor:	1.00	Date of Analysis:	1/23/09 02:49 PM
		Date of Extraction:	1/21/09

Compound	Rpt. Limit (ug)	Rpt. Limit (uG/m3)	Amount (ug)	Amount (uG/m3)
Aldrin	0.10	0.00022	Not Detected	Not Detected
alpha-BHC	0.10	0.00022	0.40	0.00088
beta-BHC	0.10	0.00022	Not Detected	Not Detected
delta-BHC	0.10	0.00022	Not Detected	Not Detected
gamma-BHC (Lindane)	0.10	0.00022	Not Detected	Not Detected
alpha-Chlordane	0.10	0.00022	Not Detected	Not Detected
gamma-Chlordane	0.10	0.00022	Not Detected	Not Detected
4,4'-DDD	0.10	0.00022	Not Detected	Not Detected
4,4'-DDE	0.10	0.00022	Not Detected	Not Detected
4,4'-DDT	0.10	0.00022	Not Detected	Not Detected
Dieldrin	0.10	0.00022	Not Detected	Not Detected
Endosulfan I	0.10	0.00022	Not Detected	Not Detected
Endosulfan II	0.10	0.00022	Not Detected	Not Detected
Endosulfan Sulfate	0.10	0.00022	Not Detected	Not Detected
Endrin	0.10	0.00022	Not Detected	Not Detected
Endrin Aldehyde	0.10	0.00022	Not Detected	Not Detected
Endrin Ketone	0.10	0.00022	Not Detected	Not Detected
Heptachlor	0.10	0.00022	Not Detected	Not Detected
Heptachlor Epoxide	0.10	0.00022	Not Detected	Not Detected
4,4'-Methoxychlor	1.0	0.0022	Not Detected	Not Detected
Toxaphene	1.0	0.0022	Not Detected	Not Detected
Aroclor 1016/1242	1.0	0.0022	Not Detected	Not Detected
Aroclor-1221	1.0	0.0022	Not Detected	Not Detected
Aroclor-1232	1.0	0.0022	Not Detected	Not Detected
Aroclor-1248	1.0	0.0022	Not Detected	Not Detected
Aroclor-1254	1.0	0.0022	Not Detected	Not Detected
Aroclor-1260	1.0	0.0022	Not Detected	Not Detected

Air Sample Volume(L): 454000

PCBs were reported from file #8012310a, analyzed on 1/23/09 with a dilution factor of 1.00.

Container Type: PUF Cartridge

Surrogates	%Recovery	Method Limits
2,4,5,6-Tetrachloro-m-xylene	98	60-120
Decachlorobiphenyl	92	60-120



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BMI06-012009

Lab ID#: 0901357A-04A

MODIFIED EPA METHOD TO-4A GC/ECD

File Name:	8012311	Date of Collection: 1/20/09
Dil. Factor:	1.00	Date of Analysis: 1/23/09 03:28 PM
		Date of Extraction: 1/21/09

Compound	Rpt. Limit (ug)	Rpt. Limit (uG/m3)	Amount (ug)	Amount (uG/m3)
Aldrin	0.10	0.00052	Not Detected	Not Detected
alpha-BHC	0.10	0.00052	0.41	0.0021
beta-BHC	0.10	0.00052	Not Detected	Not Detected
delta-BHC	0.10	0.00052	Not Detected	Not Detected
gamma-BHC (Lindane)	0.10	0.00052	Not Detected	Not Detected
alpha-Chlordane	0.10	0.00052	Not Detected	Not Detected
gamma-Chlordane	0.10	0.00052	Not Detected	Not Detected
4,4'-DDD	0.10	0.00052	Not Detected	Not Detected
4,4'-DDE	0.10	0.00052	0.11	0.00058
4,4'-DDT	0.10	0.00052	Not Detected	Not Detected
Dieldrin	0.10	0.00052	Not Detected	Not Detected
Endosulfan I	0.10	0.00052	Not Detected	Not Detected
Endosulfan II	0.10	0.00052	Not Detected	Not Detected
Endosulfan Sulfate	0.10	0.00052	Not Detected	Not Detected
Endrin	0.10	0.00052	Not Detected	Not Detected
Endrin Aldehyde	0.10	0.00052	Not Detected	Not Detected
Endrin Ketone	0.10	0.00052	Not Detected	Not Detected
Heptachlor	0.10	0.00052	Not Detected	Not Detected
Heptachlor Epoxide	0.10	0.00052	Not Detected	Not Detected
4,4'-Methoxychlor	1.0	0.0052	Not Detected	Not Detected
Toxaphene	1.0	0.0052	Not Detected	Not Detected
Aroclor 1016/1242	1.0	0.0052	Not Detected	Not Detected
Aroclor-1221	1.0	0.0052	Not Detected	Not Detected
Aroclor-1232	1.0	0.0052	Not Detected	Not Detected
Aroclor-1248	1.0	0.0052	Not Detected	Not Detected
Aroclor-1254	1.0	0.0052	Not Detected	Not Detected
Aroclor-1260	1.0	0.0052	Not Detected	Not Detected

Air Sample Volume(L): 190000

PCBs were reported from file #8012311a, analyzed on 1/23/09 with a dilution factor of 1.00.

Container Type: PUF Cartridge

Surrogates	%Recovery	Method Limits
2,4,5,6-Tetrachloro-m-xylene	106	60-120
Decachlorobiphenyl	94	60-120



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BMI11-012009BS

Lab ID#: 0901357A-07A

MODIFIED EPA METHOD TO-4A GC/ECD

File Name:	8012312	Date of Collection: 1/20/09
Dil. Factor:	1.00	Date of Analysis: 1/23/09 04:07 PM
		Date of Extraction: 1/21/09

Compound	Rpt. Limit (ug)	Rpt. Limit (uG/m3)	Amount (ug)	Amount (uG/m3)
Aldrin	0.10	0.00022	Not Detected	Not Detected
alpha-BHC	0.10	0.00022	Not Detected	Not Detected
beta-BHC	0.10	0.00022	Not Detected	Not Detected
delta-BHC	0.10	0.00022	Not Detected	Not Detected
gamma-BHC (Lindane)	0.10	0.00022	Not Detected	Not Detected
alpha-Chlordane	0.10	0.00022	Not Detected	Not Detected
gamma-Chlordane	0.10	0.00022	Not Detected	Not Detected
4,4'-DDD	0.10	0.00022	Not Detected	Not Detected
4,4'-DDE	0.10	0.00022	Not Detected	Not Detected
4,4'-DDT	0.10	0.00022	Not Detected	Not Detected
Dieldrin	0.10	0.00022	Not Detected	Not Detected
Endosulfan I	0.10	0.00022	Not Detected	Not Detected
Endosulfan II	0.10	0.00022	Not Detected	Not Detected
Endosulfan Sulfate	0.10	0.00022	Not Detected	Not Detected
Endrin	0.10	0.00022	Not Detected	Not Detected
Endrin Aldehyde	0.10	0.00022	Not Detected	Not Detected
Endrin Ketone	0.10	0.00022	Not Detected	Not Detected
Heptachlor	0.10	0.00022	Not Detected	Not Detected
Heptachlor Epoxide	0.10	0.00022	Not Detected	Not Detected
4,4'-Methoxychlor	1.0	0.0022	Not Detected	Not Detected
Toxaphene	1.0	0.0022	Not Detected	Not Detected
Aroclor 1016/1242	1.0	0.0022	Not Detected	Not Detected
Aroclor-1221	1.0	0.0022	Not Detected	Not Detected
Aroclor-1232	1.0	0.0022	Not Detected	Not Detected
Aroclor-1248	1.0	0.0022	Not Detected	Not Detected
Aroclor-1254	1.0	0.0022	Not Detected	Not Detected
Aroclor-1260	1.0	0.0022	Not Detected	Not Detected

Air Sample Volume(L): 460000

PCBs were reported from file #8012312a, analyzed on 1/23/09 with a dilution factor of 1.00.

Container Type: PUF Cartridge

Surrogates	%Recovery	Method Limits
2,4,5,6-Tetrachloro-m-xylene	105	60-120
Decachlorobiphenyl	93	60-120



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0901357A-08A

MODIFIED EPA METHOD TO-4A GC/ECD

File Name:	8012306	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/23/09 12:13 PM
		Date of Extraction: 1/21/09

Compound	Rpt. Limit (ug)	Rpt. Limit (uG/m3)	Amount (ug)	Amount (uG/m3)
Aldrin	0.10	0.00022	Not Detected	Not Detected
alpha-BHC	0.10	0.00022	Not Detected	Not Detected
beta-BHC	0.10	0.00022	Not Detected	Not Detected
delta-BHC	0.10	0.00022	Not Detected	Not Detected
gamma-BHC (Lindane)	0.10	0.00022	Not Detected	Not Detected
alpha-Chlordane	0.10	0.00022	Not Detected	Not Detected
gamma-Chlordane	0.10	0.00022	Not Detected	Not Detected
4,4'-DDD	0.10	0.00022	Not Detected	Not Detected
4,4'-DDE	0.10	0.00022	Not Detected	Not Detected
4,4'-DDT	0.10	0.00022	Not Detected	Not Detected
Dieldrin	0.10	0.00022	Not Detected	Not Detected
Endosulfan I	0.10	0.00022	Not Detected	Not Detected
Endosulfan II	0.10	0.00022	Not Detected	Not Detected
Endosulfan Sulfate	0.10	0.00022	Not Detected	Not Detected
Endrin	0.10	0.00022	Not Detected	Not Detected
Endrin Aldehyde	0.10	0.00022	Not Detected	Not Detected
Endrin Ketone	0.10	0.00022	Not Detected	Not Detected
Heptachlor	0.10	0.00022	Not Detected	Not Detected
Heptachlor Epoxide	0.10	0.00022	Not Detected	Not Detected
4,4'-Methoxychlor	1.0	0.0022	Not Detected	Not Detected
Toxaphene	1.0	0.0022	Not Detected	Not Detected
Aroclor 1016/1242	1.0	0.0022	Not Detected	Not Detected
Aroclor-1221	1.0	0.0022	Not Detected	Not Detected
Aroclor-1232	1.0	0.0022	Not Detected	Not Detected
Aroclor-1248	1.0	0.0022	Not Detected	Not Detected
Aroclor-1254	1.0	0.0022	Not Detected	Not Detected
Aroclor-1260	1.0	0.0022	Not Detected	Not Detected

Air Sample Volume(L): 460000

PCBs were reported from file #8012306a, analyzed on 1/23/09 with a dilution factor of 1.00.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2,4,5,6-Tetrachloro-m-xylene	100	60-120
Decachlorobiphenyl	93	60-120



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0901357A-09A

MODIFIED EPA METHOD TO-4A GC/ECD

File Name:	8012309	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/23/09 02:10 PM
		Date of Extraction: 1/21/09

Compound	%Recovery
Aldrin	92
alpha-BHC	Not Spiked
beta-BHC	Not Spiked
delta-BHC	Not Spiked
gamma-BHC (Lindane)	94
alpha-Chlordane	Not Spiked
gamma-Chlordane	Not Spiked
4,4'-DDD	Not Spiked
4,4'-DDE	Not Spiked
4,4'-DDT	88
Dieldrin	91
Endosulfan I	Not Spiked
Endosulfan II	Not Spiked
Endosulfan Sulfate	Not Spiked
Endrin	92
Endrin Aldehyde	Not Spiked
Endrin Ketone	Not Spiked
Heptachlor	98
Heptachlor Epoxide	Not Spiked
4,4'-Methoxychlor	Not Spiked
Toxaphene	Not Spiked
Aroclor 1016/1242	83
Aroclor-1221	Not Spiked
Aroclor-1232	Not Spiked
Aroclor-1248	Not Spiked
Aroclor-1254	Not Spiked
Aroclor-1260	87

Air Sample Volume(L): 460000

PCBs were reported from file #8012308, analyzed on 1/23/09 with a dilution factor of 1.00.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2,4,5,6-Tetrachloro-m-xylene	114	60-120
Decachlorobiphenyl	103	60-120