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www.alsglobal.com

LABORATORY REPORT

July 22, 2013

John Cleary
Washington State Department of Ecology
Eastern regional Office 4601 N Monroe St
Spokane, WA 99205

RE: Site L / PIC #9NWRR

Dear John:

Enclosed are the results of the samples submitted to our laboratory on June 27, 2013. For your reference, these analyses have been assigned our service request number P1302753.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

By Samantha Henningsen at 12:43 pm, Jul 22, 2013

Samantha Henningsen
Project Manager



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Client: Washington State Department of Ecology
Project: Site L / PIC #9NWRR

Service Request No: P1302753

CASE NARRATIVE

The samples were received intact under chain of custody on June 27, 2013 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Aldehyde Analysis

The DNPH silica gel tube samples were analyzed for aldehydes according to EPA Method TO-11A using high performance liquid chromatography (HPLC). This method is not included on the laboratory's NELAP, DoD-ELAP, or AIHA-LAP scope of accreditation.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.



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ALS Environmental – Simi Valley
 Certifications, Accreditations, and Registrations

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L11-203
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2012039
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	494864
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	CA200007
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-12-3
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA01527201 2-2
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Washington State Department of Ecology
 Project ID: Site L / PIC #9NWRR

Service Request: P1302753

Date Received: 6/27/2013
 Time Received: 07:35

TO-11A - Carbonyls

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	
ASP Biofilter	P1302753-001	Air	6/26/2013	08:00	X
Tipping & ASP Biofilter	P1302753-002	Air	6/26/2013	09:25	X
Tipping & ASP Biofilter Duplicate	P1302753-003	Air	6/26/2013	09:45	X
Fresh ASP	P1302753-004	Air	6/26/2013	11:40	X
7 Day ASP	P1302753-005	Air	6/26/2013	12:35	X
Finished	P1302753-006	Air	6/26/2013	15:15	X



2655 Park Center Drive, Suite A
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Air - Chain of Custody Record & Analytical Service Request

Company Name & Address (Reporting Information) <i>Washington Department of Ecology</i> <i>4601 North Monroe Street</i> <i>Spokane, WA</i>		Project Name <i>Site L</i>		ALS Project No <i>P1302153</i>	
Project Manager <i>John Cleary</i>		Project Number <i>PIC # 9NWR</i>		ALS Contact:	
P.O. # / Billing Information		Project Name <i>Site L</i>		Analysis Method <i>To -11A / Aldenhyde</i>	
Sampler (Print & Sign) <i>John Cleary John P Cleary</i>		Flow/Controller ID (Bar code # - FC #)		Sample Volume <i>DNPH</i>	
Laboratory ID Number ①		Date Collected <i>6/26/13</i>		Canister Start Pressure "Hg <i>DNPH</i>	
ASP Biofilter		Time Collected <i>8:00</i>		Canister End Pressure "Hg/psig <i>SORBENT TUBE</i>	
Tipping + ASP Biofilter		②		X	
Tipping + ASP Biofilter Duplicate		③		X	
Fresh ASP		④		X	
7 Day ASP		⑤		X	
FINISHED		⑥		X	
FIELD BLANK		Y		X	
				Comments e.g. Actual Preservative or specific instructions <i>SPC 6/26/13</i>	
Client Sample ID		Date Collected		Chain of Custody Seal: (Circle) INTACT BROKEN	
Report Tier Levels - please select Tier I - Results (Default in not specified) Tier II (Results + QC Summaries) Tier III (Results + QC & Calibration Summaries) Tier IV (Date Validation Package) 10% Surcharge		EDD required YES / No Type: _____ Units: _____		Project Requirements (MRLs, QAPP)	
Relinquished by: (Signature) <i>John Cleary</i>		Date: <i>6/26/13</i>		Date: <i>6/26/13</i>	
Relinquished by: (Signature) <i>John Cleary</i>		Date: <i>6/26/13</i>		Date: <i>6/26/13</i>	

**ALS Environmental
Sample Acceptance Check Form**

Client: Washington State Department of Ecology

Work order: P1302753

Project: Site L / PIC #9NWRR

Sample(s) received on: 6/27/13

Date opened: 6/27/13

by: MZAMORA

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- | | Yes | No | N/A |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Were sample containers properly marked with client sample ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Container(s) supplied by ALS ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Did sample containers arrive in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Were chain-of-custody papers used and filled out? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Did sample container labels and/or tags agree with custody papers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6 Was sample volume received adequate for analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 Are samples within specified holding times? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8 Was proper temperature (thermal preservation) of cooler at receipt adhered to? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Cooler Temperature: 5° C Blank Temperature: ° C | | | |
| | | | Gel Packs |
| 9 Was a trip blank received? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 10 Were custody seals on outside of cooler/Box? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Location of seal(s)? _____ | | | Sealing Lid? |
| Were signature and date included? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were seals intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were custody seals on outside of sample container? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Location of seal(s)? _____ | | | Sealing Lid? |
| Were signature and date included? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were seals intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 Do containers have appropriate preservation , according to method/SOP or Client specified information? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Is there a client indication that the submitted samples are pH preserved? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were VOA vials checked for presence/absence of air bubbles? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 12 Tubes: Are the tubes capped and intact? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Do they contain moisture? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 13 Badges: Are the badges properly capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1302753-001.01	Silica Gel DNPH Tube					
P1302753-002.01	Silica Gel DNPH Tube					
P1302753-003.01	Silica Gel DNPH Tube					
P1302753-004.01	Silica Gel DNPH Tube					
P1302753-005.01	Silica Gel DNPH Tube					
P1302753-006.01	Silica Gel DNPH Tube					

Explain any discrepancies: (include lab sample ID numbers): _____

Chain of Custody is missing sample volume(s) _____

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Washington State Department of Ecology
Client Sample ID: ASP Biofilter
Client Project ID: Site L / PIC #9NWRR

ALS Project ID: P1302753
 ALS Sample ID: P1302753-001

Test Code: EPA Method TO-11A
 Instrument ID: Agilent Infinity LC 1220/LC3
 Analyst: Lusine Hakobyan
 Sample Type: Silica Gel DNPH Tube
 Test Notes: **BC**

Date Collected: 6/26/13
 Date Received: 6/27/13
 Date Analyzed: 7/12/13
 Desorption Volume: 1.0 ml
 Volume Sampled: 36.237 Liter(s)

CAS #	Compound	Result ng/Sample	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
50-00-0	Formaldehyde	< 100	ND	2.8	ND	2.2	
75-07-0	Acetaldehyde	< 100	ND	2.8	ND	1.5	
123-38-6	Propionaldehyde	< 100	ND	2.8	ND	1.2	
4170-30-3	Crotonaldehyde, Total	< 100	ND	2.8	ND	0.96	
123-72-8	Butyraldehyde	< 100	ND	2.8	ND	0.94	
100-52-7	Benzaldehyde	< 100	ND	2.8	ND	0.64	
590-86-3	Isovaleraldehyde	< 100	ND	2.8	ND	0.78	
110-62-3	Valeraldehyde	< 100	ND	2.8	ND	0.78	
529-20-4	o-Tolualdehyde	< 100	ND	2.8	ND	0.56	
620-23-5							
104-87-0	m,p-Tolualdehyde	< 200	ND	5.5	ND	1.1	
66-25-1	n-Hexaldehyde	< 100	ND	2.8	ND	0.67	
5779-94-2	2,5-Dimethylbenzaldehyde	< 100	ND	2.8	ND	0.50	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

BC = Results reported are not blank corrected.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: Washington State Department of Ecology
Client Sample ID: Tipping & ASP Biofilter
Client Project ID: Site L / PIC #9NWRR

ALS Project ID: P1302753
 ALS Sample ID: P1302753-002

Test Code: EPA Method TO-11A
 Instrument ID: Agilent Infinity LC 1220/LC3
 Analyst: Lusine Hakobyan
 Sample Type: Silica Gel DNPH Tube
 Test Notes: **BC**

Date Collected: 6/26/13
 Date Received: 6/27/13
 Date Analyzed: 7/12/13
 Desorption Volume: 1.0 ml
 Volume Sampled: 36.063 Liter(s)

CAS #	Compound	Result ng/Sample	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
50-00-0	Formaldehyde	< 100	ND	2.8	ND	2.3	
75-07-0	Acetaldehyde	< 100	ND	2.8	ND	1.5	
123-38-6	Propionaldehyde	< 100	ND	2.8	ND	1.2	
4170-30-3	Crotonaldehyde, Total	< 100	ND	2.8	ND	0.97	
123-72-8	Butyraldehyde	< 100	ND	2.8	ND	0.94	
100-52-7	Benzaldehyde	< 100	ND	2.8	ND	0.64	
590-86-3	Isovaleraldehyde	< 100	ND	2.8	ND	0.79	
110-62-3	Valeraldehyde	< 100	ND	2.8	ND	0.79	
529-20-4	o-Tolualdehyde	< 100	ND	2.8	ND	0.56	
620-23-5							
104-87-0	m,p-Tolualdehyde	< 200	ND	5.5	ND	1.1	
66-25-1	n-Hexaldehyde	< 100	ND	2.8	ND	0.68	
5779-94-2	2,5-Dimethylbenzaldehyde	< 100	ND	2.8	ND	0.51	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

BC = Results reported are not blank corrected.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Washington State Department of Ecology
Client Sample ID: Tipping & ASP Biofilter Duplicate
Client Project ID: Site L / PIC #9NWRR

ALS Project ID: P1302753
 ALS Sample ID: P1302753-003

Test Code: EPA Method TO-11A
 Instrument ID: Agilent Infinity LC 1220/LC3
 Analyst: Lusine Hakobyan
 Sample Type: Silica Gel DNPH Tube
 Test Notes: **BC**

Date Collected: 6/26/13
 Date Received: 6/27/13
 Date Analyzed: 7/12/13
 Desorption Volume: 1.0 ml
 Volume Sampled: 36.018 Liter(s)

CAS #	Compound	Result ng/Sample	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
50-00-0	Formaldehyde	< 100	ND	2.8	ND	2.3	
75-07-0	Acetaldehyde	140	4.0	2.8	2.2	1.5	
123-38-6	Propionaldehyde	< 100	ND	2.8	ND	1.2	
4170-30-3	Crotonaldehyde, Total	< 100	ND	2.8	ND	0.97	
123-72-8	Butyraldehyde	< 100	ND	2.8	ND	0.94	
100-52-7	Benzaldehyde	< 100	ND	2.8	ND	0.64	
590-86-3	Isovaleraldehyde	< 100	ND	2.8	ND	0.79	
110-62-3	Valeraldehyde	< 100	ND	2.8	ND	0.79	
529-20-4	o-Tolualdehyde	< 100	ND	2.8	ND	0.57	
620-23-5							
104-87-0	m,p-Tolualdehyde	< 200	ND	5.6	ND	1.1	
66-25-1	n-Hexaldehyde	< 100	ND	2.8	ND	0.68	
5779-94-2	2,5-Dimethylbenzaldehyde	< 100	ND	2.8	ND	0.51	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

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BC = Results reported are not blank corrected.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: Washington State Department of Ecology
Client Sample ID: Fresh ASP
Client Project ID: Site L / PIC #9NWRR

ALS Project ID: P1302753
 ALS Sample ID: P1302753-004

Test Code: EPA Method TO-11A
 Instrument ID: Agilent Infinity LC 1220/LC3
 Analyst: Lusine Hakobyan
 Sample Type: Silica Gel DNPH Tube
 Test Notes: **BC**

Date Collected: 6/26/13
 Date Received: 6/27/13
 Date Analyzed: 7/12/13
 Desorption Volume: 1.0 ml
 Volume Sampled: 35.847 Liter(s)

CAS #	Compound	Result ng/Sample	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
50-00-0	Formaldehyde	< 100	ND	2.8	ND	2.3	
75-07-0	Acetaldehyde	760	21	2.8	12	1.5	BH
123-38-6	Propionaldehyde	< 100	ND	2.8	ND	1.2	
4170-30-3	Crotonaldehyde, Total	< 100	ND	2.8	ND	0.97	
123-72-8	Butyraldehyde	< 100	ND	2.8	ND	0.95	
100-52-7	Benzaldehyde	< 100	ND	2.8	ND	0.64	
590-86-3	Isovaleraldehyde	< 100	ND	2.8	ND	0.79	
110-62-3	Valeraldehyde	< 100	ND	2.8	ND	0.79	
529-20-4	o-Tolualdehyde	< 100	ND	2.8	ND	0.57	
620-23-5							
104-87-0	m,p-Tolualdehyde	< 200	ND	5.6	ND	1.1	
66-25-1	n-Hexaldehyde	< 100	ND	2.8	ND	0.68	
5779-94-2	2,5-Dimethylbenzaldehyde	< 100	ND	2.8	ND	0.51	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

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BC = Results reported are not blank corrected.

BH = Results indicate breakthrough; back section of tube greater than front section.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: Washington State Department of Ecology
Client Sample ID: 7 Day ASP
Client Project ID: Site L / PIC #9NWRR

ALS Project ID: P1302753
 ALS Sample ID: P1302753-005

Test Code: EPA Method TO-11A
 Instrument ID: Agilent Infinity LC 1220/LC3
 Analyst: Lusine Hakobyan
 Sample Type: Silica Gel DNPH Tube
 Test Notes: **BC**

Date Collected: 6/26/13
 Date Received: 6/27/13
 Date Analyzed: 7/12/13
 Desorption Volume: 1.0 ml
 Volume Sampled: 35.688 Liter(s)

CAS #	Compound	Result ng/Sample	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
50-00-0	Formaldehyde	< 100	ND	2.8	ND	2.3	
75-07-0	Acetaldehyde	< 100	ND	2.8	ND	1.6	
123-38-6	Propionaldehyde	< 100	ND	2.8	ND	1.2	
4170-30-3	Crotonaldehyde, Total	< 100	ND	2.8	ND	0.98	
123-72-8	Butyraldehyde	< 100	ND	2.8	ND	0.95	
100-52-7	Benzaldehyde	< 100	ND	2.8	ND	0.65	
590-86-3	Isovaleraldehyde	< 100	ND	2.8	ND	0.80	
110-62-3	Valeraldehyde	< 100	ND	2.8	ND	0.80	
529-20-4	o-Tolualdehyde	< 100	ND	2.8	ND	0.57	
620-23-5							
104-87-0	m,p-Tolualdehyde	< 200	ND	5.6	ND	1.1	
66-25-1	n-Hexaldehyde	< 100	ND	2.8	ND	0.68	
5779-94-2	2,5-Dimethylbenzaldehyde	< 100	ND	2.8	ND	0.51	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

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ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: Washington State Department of Ecology
Client Sample ID: Finished
Client Project ID: Site L / PIC #9NWRR

ALS Project ID: P1302753
 ALS Sample ID: P1302753-006

Test Code: EPA Method TO-11A
 Instrument ID: Agilent Infinity LC 1220/LC3
 Analyst: Lusine Hakobyan
 Sample Type: Silica Gel DNPH Tube
 Test Notes: **BC**

Date Collected: 6/26/13
 Date Received: 6/27/13
 Date Analyzed: 7/12/13
 Desorption Volume: 1.0 ml
 Volume Sampled: 35.385 Liter(s)

CAS #	Compound	Result ng/Sample	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
50-00-0	Formaldehyde	< 100	ND	2.8	ND	2.3	
75-07-0	Acetaldehyde	< 100	ND	2.8	ND	1.6	
123-38-6	Propionaldehyde	< 100	ND	2.8	ND	1.2	
4170-30-3	Crotonaldehyde, Total	< 100	ND	2.8	ND	0.99	
123-72-8	Butyraldehyde	< 100	ND	2.8	ND	0.96	
100-52-7	Benzaldehyde	< 100	ND	2.8	ND	0.65	
590-86-3	Isovaleraldehyde	< 100	ND	2.8	ND	0.80	
110-62-3	Valeraldehyde	< 100	ND	2.8	ND	0.80	
529-20-4	o-Tolualdehyde	< 100	ND	2.8	ND	0.58	
620-23-5							
104-87-0	m,p-Tolualdehyde	< 200	ND	5.7	ND	1.2	
66-25-1	n-Hexaldehyde	< 100	ND	2.8	ND	0.69	
5779-94-2	2,5-Dimethylbenzaldehyde	< 100	ND	2.8	ND	0.52	

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ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: Washington State Department of Ecology
Client Sample ID: Method Blank
Client Project ID: Site L / PIC #9NWRR

ALS Project ID: P1302753
 ALS Sample ID: P130712-MB

Test Code: EPA Method TO-11A
 Instrument ID: Agilent Infinity LC 1220/LC3
 Analyst: Lusine Hakobyan
 Sample Type: Silica Gel DNPH Tube
 Test Notes: **BC**

Date Collected: NA
 Date Received: NA
 Date Analyzed: 07/12/13
 Desorption Volume: 1.0 ml
 Volume Sampled: NA Liter(s)

CAS #	Compound	Result ng/Sample	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
50-00-0	Formaldehyde	< 100	NA	NA	NA	NA	
75-07-0	Acetaldehyde	< 100	NA	NA	NA	NA	
123-38-6	Propionaldehyde	< 100	NA	NA	NA	NA	
4170-30-3	Crotonaldehyde, Total	< 100	NA	NA	NA	NA	
123-72-8	Butyraldehyde	< 100	NA	NA	NA	NA	
100-52-7	Benzaldehyde	< 100	NA	NA	NA	NA	
590-86-3	Isovaleraldehyde	< 100	NA	NA	NA	NA	
110-62-3	Valeraldehyde	< 100	NA	NA	NA	NA	
529-20-4	o-Tolualdehyde	< 100	NA	NA	NA	NA	
620-23-5							
104-87-0	m,p-Tolualdehyde	< 200	NA	NA	NA	NA	
66-25-1	n-Hexaldehyde	< 100	NA	NA	NA	NA	
5779-94-2	2,5-Dimethylbenzaldehyde	< 100	NA	NA	NA	NA	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

BC = Results reported are not blank corrected.

NA = Not applicable.