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April 20, 2016

**Attention: Mr. Dale Myers, VCP Site Manager**

Washington State Department of Ecology

Northwest Regional Office

3190 160<sup>th</sup> Avenue SE

Bellevue, WA 98008-5452

**Reference: Status Update for Former US Marine Bayliner Facility**

**17825 59<sup>th</sup> Avenue NE**

**Arlington, Washington**

**VCP No. NW2270**

Dear Mr. Myers,

Stantec Consulting Services Inc. (Stantec) is pleased to submit this Status Update letter for the above-referenced Former Bayliner Marine facility in Arlington, Washington (the "Site"). Stantec reviewed Ecology's Opinion letter to Brunswick Corporation dated December 16, 2015. The letter indicates a need for continued monitoring of the tetrachloroethylene (PCE) concentrations in groundwater and evaluation of closure options.

In concurrence with Ecology's letter, groundwater monitoring was completed on March 18, 2016. Sampling results from the sampling event are discussed below. Further sampling is anticipated to monitor PCE concentrations at the Site and evaluate closure options.

### **March 2016 Groundwater Sampling Event**

On March 18<sup>th</sup>, 2015 Stantec completed an additional round of groundwater sampling of all 8 groundwater monitoring wells at the Site. The 6 wells in the proposed compliance monitoring well network described in the *Monitored Natural Attenuation Work Plan* were last sampled on October 27, 2015. The groundwater samples were submitted for Volatile Organic Compounds (VOC) analysis by EPA Method 8260B. The groundwater was also monitored for geochemical parameters including temperature, pH, oxygen reducing potential, dissolved oxygen, and conductivity.

PCE concentrations decreased in the two source area wells: MW-1 and MW-8. In MW-1, the PCE concentration decreased from 33 micrograms per liter ( $\mu\text{g/L}$ ) to 25  $\mu\text{g/L}$ , and in MW-8 the PCE concentration decreased from 44  $\mu\text{g/L}$  to 26  $\mu\text{g/L}$ . In addition to the decrease in PCE concentration in the source area wells, there is no indication of off-Site migration of PCE onto adjoining properties. The PCE concentrations appear to be stable and decreasing, the plume is stable, and site conditions do not appear to represent a concern to human health or the environment.



April 20, 2016  
Mr. Dale Myers, VCP Site Manager  
Page 2 of 2

### Further Monitoring

Further monitoring will continue to document the expected decrease of PCE concentrations in the groundwater. Monitoring results will be reviewed to confirm there is no threat to human health or the environment and will be provided to Ecology.

If you have any questions please contact me at (425) 869-9448, Ext. 167.

Regards,

**Stantec Consulting Services, Inc.**

A handwritten signature in blue ink, appearing to read "G McCormick".

Greg McCormick, LG  
Senior Geologist  
Phone: (425) 869-9448 Ext. 167  
Greg.mccormick@stantec.com

cc. Mr. Dave Selig, Brunswick Corporation

Attachments.

Figure 4: Site Plan with Groundwater Analytical Results  
Laboratory Report and Chain-of-Custody Documentation

CAMBELL/NEILSON  
AUTO WRECKING

UNDEVELOPED  
LAND

STELLA-JONES  
LUMBER YARD

180th STREET NE

MW-6	PCE	TCE
12/10/09	ND	ND
2/18/10	ND	ND
5/26/10	ND	ND
9/9/10	ND	ND
12/20/10	ND	ND
9/22/11	ND	ND
9/6/13	ND	ND
11/26/13	ND	ND
6/5/14	ND	ND
9/16/14	ND	ND
10/27/15	ND	ND
3/18/16	ND	ND

MW-5	PCE	TCE
12/10/09	ND	ND
2/18/10	ND	ND
5/26/10	ND	ND
9/9/10	ND	ND
12/20/10	ND	ND
9/22/11	ND	ND
9/6/13	3.1	ND
11/26/13	ND	ND
6/5/14	ND	ND
9/16/14	ND	ND
3/18/16	ND	ND

MW-7	PCE	TCE
12/10/09	ND	ND
2/18/10	ND	ND
5/26/10	ND	ND
9/9/10	ND	ND
12/20/10	ND	ND
9/22/11	ND	ND
9/6/13	ND	ND
11/26/13	ND	ND
6/5/14	ND	ND
9/16/14	ND	ND
3/18/16	ND	ND

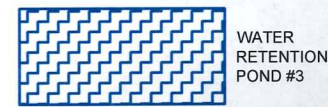
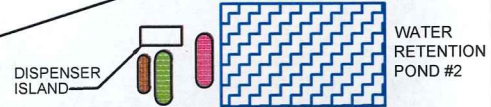
MW-4	PCE	TCE
12/10/09	13	16
2/18/10	5.3	ND
5/26/10	5.0	ND
9/9/10	5.2	ND
12/20/10	7.7	ND
9/22/11	2.4	ND
9/6/13	ND	ND
11/26/13	3.1	ND
6/5/14	1.73	ND
9/16/14	3.92	ND
10/27/15	5.9	ND
3/18/16	ND	ND

MW-8	PCE	TCE
9/22/11	25	ND
9/6/13	34	ND
6/5/14	36.9	ND
9/16/14	42.4	ND
10/27/15	44	ND
3/18/16	26	ND

MW-1	PCE	TCE
12/10/09	59	ND
2/18/10	48	ND
5/26/10	50	ND
9/9/10	57	ND
12/20/10	43	ND
9/22/11	32	ND
9/6/13	35	ND
11/26/13	35	ND
6/5/14	30.6	ND
9/16/14	36.5	ND
10/27/15	33	ND
3/18/16	25	ND

MW-2	PCE	TCE
12/10/09	ND	ND
2/18/10	ND	ND
5/26/10	ND	ND
9/9/10	ND	ND
12/20/10	ND	ND
9/22/11	ND	ND
9/6/13	ND	ND
11/26/13	ND	ND
6/5/14	ND	ND
9/16/14	ND	ND
10/27/15	ND	ND
3/18/16	ND	ND

MW-3	PCE	TCE
12/10/09	ND	ND
2/18/10	ND	ND
5/26/10	ND	ND
9/9/10	ND	ND
12/20/10	ND	ND
9/22/11	ND	ND
9/6/13	ND	ND
11/26/13	ND	ND
6/5/14	ND	ND
9/16/14	ND	ND
10/27/15	ND	ND
3/18/16	ND	ND



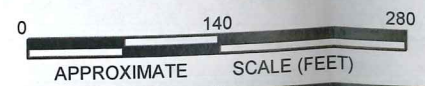
**LEGEND**

- SUBJECT PROPERTY BOUNDARY
- ⊕ MONITORING WELL LOCATION
- ⊙ MONITORING WELL LOCATION INSTALLED ON 9/14/11
- PCE TETRACHLOROETHENE
- TCE TRICHLOROETHENE
- ND NON-DETECT
- 10,000-GALLON RESIN AST
- 10,000-GALLON DIESEL AST
- 5,000-GALLON GASOLINE AST
- AQUA WASH WASTE AST
- PROPANE TANK

ALL CONCENTRATIONS ARE REPORTED  
IN MICROGRAMS PER LITER (µg/L)

MTCA METHOD A CLEANUP CRITERIA (µg/L)	
TETRACHLOROETHENE	5
TRICHLOROETHENE	5

JET CITY  
EQUIPMENT  
RENTAL



<p>11130 NE 33RD PLACE, SUITE 200 BELLEVUE, WASHINGTON 98004 PHONE: (425) 869-9448 FAX: (425) 869-1190</p>	FOR:	FORMER BAYLINER MARINE FACILITY 17825 59th AVENUE NE ARLINGTON, WASHINGTON	FIGURE:	4
	JOB NUMBER:	185750287	DRAWN BY:	ARA
CHECKED BY:		GMC	APPROVED BY:	MS
DATE:		3/25/16		

FILEPATH:V:\2122\active\2122 MISC CAD\Other\_offices\_work\WASHINGTON\_OREGON\Bayliner\BaylinerMarine-2009-2016\_GWE\_GWA.dwg\andrews\Mar 31, 2016 at 8:53\Layout: GWA



March 28, 2016

Mr. Greg McCormick  
Stantec  
11130 NE 33rd Pl, Suite 200  
Bellevue, WA 98004

Dear Mr. McCormick,

On March 18th, 9 samples were received by our laboratory and assigned our laboratory project number EV16030151. The project was identified as your 185750287. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan  
Laboratory Director



CERTIFICATE OF ANALYSIS

CLIENT: Stantec  
11130 NE 33rd Pl, Suite 200  
Bellevue, WA 98004

DATE: 3/28/2016  
ALS JOB#: EV16030151  
ALS SAMPLE#: EV16030151-01  
DATE RECEIVED: 03/18/2016  
COLLECTION DATE: 3/18/2016 3:10:00 PM  
WDOE ACCREDITATION: C601

CLIENT CONTACT: Greg McCormick  
CLIENT PROJECT: 185750287  
CLIENT SAMPLE ID: MW-1

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	03/22/2016	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	03/22/2016	DLC
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	03/22/2016	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	03/22/2016	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	03/22/2016	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	03/22/2016	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	03/22/2016	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	03/22/2016	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	03/22/2016	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	03/22/2016	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	03/22/2016	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	03/22/2016	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	03/22/2016	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	03/22/2016	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	03/22/2016	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	03/22/2016	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	03/22/2016	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	03/22/2016	DLC
Trichloroethene	EPA-8260	U	2.0	1	UG/L	03/22/2016	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	03/22/2016	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	03/22/2016	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	03/22/2016	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	03/22/2016	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	03/22/2016	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	03/22/2016	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	03/22/2016	DLC
Tetrachloroethylene	EPA-8260	25	2.0	1	UG/L	03/22/2016	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	03/22/2016	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	03/22/2016	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	03/22/2016	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	03/22/2016	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	03/22/2016	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	03/22/2016	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	03/22/2016	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	03/22/2016	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	03/22/2016	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	03/22/2016	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	03/22/2016	DLC



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Stantec 11130 NE 33rd Pl, Suite 200 Bellevue, WA 98004	<b>DATE:</b>	3/28/2016
<b>CLIENT CONTACT:</b>	Greg McCormick	<b>ALS JOB#:</b>	EV16030151
<b>CLIENT PROJECT:</b>	185750287	<b>ALS SAMPLE#:</b>	EV16030151-01
<b>CLIENT SAMPLE ID</b>	MW-1	<b>DATE RECEIVED:</b>	03/18/2016
		<b>COLLECTION DATE:</b>	3/18/2016 3:10:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**SAMPLE DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	03/22/2016	DLC
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	03/22/2016	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	03/22/2016	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	03/22/2016	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	03/22/2016	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	03/22/2016	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	101	03/22/2016	DLC
4-Bromofluorobenzene	EPA-8260	99.9	03/22/2016	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

CLIENT: Stantec  
 11130 NE 33rd Pl, Suite 200  
 Bellevue, WA 98004

CLIENT CONTACT: Greg McCormick  
 CLIENT PROJECT: 185750287  
 CLIENT SAMPLE ID MW-2

DATE: 3/28/2016  
 ALS JOB#: EV16030151  
 ALS SAMPLE#: EV16030151-02  
 DATE RECEIVED: 03/18/2016  
 COLLECTION DATE: 3/18/2016 12:40:00 PM  
 WDOE ACCREDITATION: C601

**SAMPLE DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	03/23/2016	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	03/23/2016	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Trichloroethene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	03/23/2016	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC



CERTIFICATE OF ANALYSIS

CLIENT: Stantec  
11130 NE 33rd Pl, Suite 200  
Bellevue, WA 98004  
DATE: 3/28/2016  
ALS JOB#: EV16030151  
ALS SAMPLE#: EV16030151-02  
CLIENT CONTACT: Greg McCormick  
DATE RECEIVED: 03/18/2016  
CLIENT PROJECT: 185750287  
COLLECTION DATE: 3/18/2016 12:40:00 PM  
CLIENT SAMPLE ID: MW-2  
WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	03/23/2016	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	103	03/23/2016	DLC
4-Bromofluorobenzene	EPA-8260	101	03/23/2016	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

**CLIENT:** Stantec  
 11130 NE 33rd Pl, Suite 200  
 Bellevue, WA 98004

**CLIENT CONTACT:** Greg McCormick  
**CLIENT PROJECT:** 185750287  
**CLIENT SAMPLE ID:** MW-3

**DATE:** 3/28/2016  
**ALS JOB#:** EV16030151  
**ALS SAMPLE#:** EV16030151-03  
**DATE RECEIVED:** 03/18/2016  
**COLLECTION DATE:** 3/18/2016 10:40:00 AM  
**WDOE ACCREDITATION:** C601

**SAMPLE DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	03/23/2016	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	03/23/2016	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Trichloroethene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	03/23/2016	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Stantec 11130 NE 33rd Pl, Suite 200 Bellevue, WA 98004	<b>DATE:</b>	3/28/2016
<b>CLIENT CONTACT:</b>	Greg McCormick	<b>ALS JOB#:</b>	EV16030151
<b>CLIENT PROJECT:</b>	185750287	<b>ALS SAMPLE#:</b>	EV16030151-03
<b>CLIENT SAMPLE ID</b>	MW-3	<b>DATE RECEIVED:</b>	03/18/2016
		<b>COLLECTION DATE:</b>	3/18/2016 10:40:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**SAMPLE DATA RESULTS**

<b>ANALYTE</b>	<b>METHOD</b>	<b>RESULTS</b>	<b>REPORTING LIMITS</b>	<b>DILUTION FACTOR</b>	<b>UNITS</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	03/23/2016	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC

<b>SURROGATE</b>	<b>METHOD</b>	<b>%REC</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichloroethane-d4	EPA-8260	103	03/23/2016	DLC
4-Bromofluorobenzene	EPA-8260	103	03/23/2016	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

**CLIENT:** Stantec  
11130 NE 33rd Pl, Suite 200  
Bellevue, WA 98004

**DATE:** 3/28/2016

**ALS JOB#:** EV16030151

**ALS SAMPLE#:** EV16030151-04

**CLIENT CONTACT:** Greg McCormick

**DATE RECEIVED:** 03/18/2016

**CLIENT PROJECT:** 185750287

**COLLECTION DATE:** 3/18/2016 11:25:00 AM

**CLIENT SAMPLE ID:** MW-4

**WDOE ACCREDITATION:** C601

**SAMPLE DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	03/23/2016	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	03/23/2016	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Trichloroethene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	03/23/2016	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Stantec 11130 NE 33rd Pl, Suite 200 Bellevue, WA 98004	<b>DATE:</b>	3/28/2016
<b>CLIENT CONTACT:</b>	Greg McCormick	<b>ALS JOB#:</b>	EV16030151
<b>CLIENT PROJECT:</b>	185750287	<b>ALS SAMPLE#:</b>	EV16030151-04
<b>CLIENT SAMPLE ID</b>	MW-4	<b>DATE RECEIVED:</b>	03/18/2016
		<b>COLLECTION DATE:</b>	3/18/2016 11:25:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**SAMPLE DATA RESULTS**

<b>ANALYTE</b>	<b>METHOD</b>	<b>RESULTS</b>	<b>REPORTING LIMITS</b>	<b>DILUTION FACTOR</b>	<b>UNITS</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	03/23/2016	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC

<b>SURROGATE</b>	<b>METHOD</b>	<b>%REC</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichloroethane-d4	EPA-8260	103	03/23/2016	DLC
4-Bromofluorobenzene	EPA-8260	98.8	03/23/2016	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

CLIENT: Stantec  
 11130 NE 33rd Pl, Suite 200  
 Bellevue, WA 98004

CLIENT CONTACT: Greg McCormick  
 CLIENT PROJECT: 185750287  
 CLIENT SAMPLE ID: MW-5

DATE: 3/28/2016  
 ALS JOB#: EV16030151  
 ALS SAMPLE#: EV16030151-05  
 DATE RECEIVED: 03/18/2016  
 COLLECTION DATE: 3/18/2016 1:30:00 PM  
 WDOE ACCREDITATION: C601

**SAMPLE DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	03/23/2016	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	03/23/2016	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Trichloroethene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	03/23/2016	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Stantec 11130 NE 33rd Pl, Suite 200 Bellevue, WA 98004	<b>DATE:</b>	3/28/2016
<b>CLIENT CONTACT:</b>	Greg McCormick	<b>ALS JOB#:</b>	EV16030151
<b>CLIENT PROJECT:</b>	185750287	<b>ALS SAMPLE#:</b>	EV16030151-05
<b>CLIENT SAMPLE ID</b>	MW-5	<b>DATE RECEIVED:</b>	03/18/2016
		<b>COLLECTION DATE:</b>	3/18/2016 1:30:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**SAMPLE DATA RESULTS**

<b>ANALYTE</b>	<b>METHOD</b>	<b>RESULTS</b>	<b>REPORTING LIMITS</b>	<b>DILUTION FACTOR</b>	<b>UNITS</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	03/23/2016	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC

<b>SURROGATE</b>	<b>METHOD</b>	<b>%REC</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichloroethane-d4	EPA-8260	102	03/23/2016	DLC
4-Bromofluorobenzene	EPA-8260	100	03/23/2016	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

**CLIENT:** Stantec  
 11130 NE 33rd Pl, Suite 200  
 Bellevue, WA 98004

**CLIENT CONTACT:** Greg McCormick  
**CLIENT PROJECT:** 185750287  
**CLIENT SAMPLE ID:** MW-6

**DATE:** 3/28/2016  
**ALS JOB#:** EV16030151  
**ALS SAMPLE#:** EV16030151-06  
**DATE RECEIVED:** 03/18/2016  
**COLLECTION DATE:** 3/18/2016 9:20:00 AM  
**WDOE ACCREDITATION:** C601

**SAMPLE DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	03/23/2016	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	03/23/2016	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Trichloroethene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	03/23/2016	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Stantec 11130 NE 33rd Pl, Suite 200 Bellevue, WA 98004	<b>DATE:</b>	3/28/2016
<b>CLIENT CONTACT:</b>	Greg McCormick	<b>ALS JOB#:</b>	EV16030151
<b>CLIENT PROJECT:</b>	185750287	<b>ALS SAMPLE#:</b>	EV16030151-06
<b>CLIENT SAMPLE ID</b>	MW-6	<b>DATE RECEIVED:</b>	03/18/2016
		<b>COLLECTION DATE:</b>	3/18/2016 9:20:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**SAMPLE DATA RESULTS**

<b>ANALYTE</b>	<b>METHOD</b>	<b>RESULTS</b>	<b>REPORTING LIMITS</b>	<b>DILUTION FACTOR</b>	<b>UNITS</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	03/23/2016	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC

<b>SURROGATE</b>	<b>METHOD</b>	<b>%REC</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichloroethane-d4	EPA-8260	103	03/23/2016	DLC
4-Bromofluorobenzene	EPA-8260	102	03/23/2016	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

CLIENT: Stantec  
 11130 NE 33rd Pl, Suite 200  
 Bellevue, WA 98004

CLIENT CONTACT: Greg McCormick  
 CLIENT PROJECT: 185750287  
 CLIENT SAMPLE ID: MW-7

DATE: 3/28/2016  
 ALS JOB#: EV16030151  
 ALS SAMPLE#: EV16030151-07  
 DATE RECEIVED: 03/18/2016  
 COLLECTION DATE: 3/18/2016 10:05:00 AM  
 WDOE ACCREDITATION: C601

**SAMPLE DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	03/23/2016	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	03/23/2016	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Trichloroethene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	03/23/2016	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Stantec 11130 NE 33rd Pl, Suite 200 Bellevue, WA 98004	<b>DATE:</b>	3/28/2016
<b>CLIENT CONTACT:</b>	Greg McCormick	<b>ALS JOB#:</b>	EV16030151
<b>CLIENT PROJECT:</b>	185750287	<b>ALS SAMPLE#:</b>	EV16030151-07
<b>CLIENT SAMPLE ID</b>	MW-7	<b>DATE RECEIVED:</b>	03/18/2016
		<b>COLLECTION DATE:</b>	3/18/2016 10:05:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**SAMPLE DATA RESULTS**

<b>ANALYTE</b>	<b>METHOD</b>	<b>RESULTS</b>	<b>REPORTING LIMITS</b>	<b>DILUTION FACTOR</b>	<b>UNITS</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	03/23/2016	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC

<b>SURROGATE</b>	<b>METHOD</b>	<b>%REC</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichloroethane-d4	EPA-8260	104	03/23/2016	DLC
4-Bromofluorobenzene	EPA-8260	102	03/23/2016	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

**CLIENT:** Stantec  
11130 NE 33rd Pl, Suite 200  
Bellevue, WA 98004

**DATE:** 3/28/2016

**ALS JOB#:** EV16030151

**ALS SAMPLE#:** EV16030151-08

**CLIENT CONTACT:** Greg McCormick

**DATE RECEIVED:** 03/18/2016

**CLIENT PROJECT:** 185750287

**COLLECTION DATE:** 3/18/2016 2:15:00 PM

**CLIENT SAMPLE ID:** MW-8

**WDOE ACCREDITATION:** C601

**SAMPLE DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	03/23/2016	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	03/23/2016	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Trichloroethene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Tetrachloroethylene	EPA-8260	26	2.0	1	UG/L	03/23/2016	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	03/23/2016	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC

**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Stantec 11130 NE 33rd Pl, Suite 200 Bellevue, WA 98004	<b>DATE:</b>	3/28/2016
<b>CLIENT CONTACT:</b>	Greg McCormick	<b>ALS JOB#:</b>	EV16030151
<b>CLIENT PROJECT:</b>	185750287	<b>ALS SAMPLE#:</b>	EV16030151-08
<b>CLIENT SAMPLE ID</b>	MW-8	<b>DATE RECEIVED:</b>	03/18/2016
		<b>COLLECTION DATE:</b>	3/18/2016 2:15:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**SAMPLE DATA RESULTS**

<b>ANALYTE</b>	<b>METHOD</b>	<b>RESULTS</b>	<b>REPORTING LIMITS</b>	<b>DILUTION FACTOR</b>	<b>UNITS</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	03/23/2016	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	03/23/2016	DLC

<b>SURROGATE</b>	<b>METHOD</b>	<b>%REC</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichloroethane-d4	EPA-8260	104	03/23/2016	DLC
4-Bromofluorobenzene	EPA-8260	100	03/23/2016	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

CLIENT: Stantec  
 11130 NE 33rd Pl, Suite 200  
 Bellevue, WA 98004

CLIENT CONTACT: Greg McCormick  
 CLIENT PROJECT: 185750287

DATE: 3/28/2016  
 ALS SDG#: EV16030151  
 WDOE ACCREDITATION: C601

**LABORATORY BLANK RESULTS**

**MB-032216W - Batch 102701 - Water by EPA-8260**

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	UG/L	2.0	03/22/2016	DLC
Chloromethane	EPA-8260	U	UG/L	2.0	03/22/2016	DLC
Vinyl Chloride	EPA-8260	U	UG/L	0.20	03/22/2016	DLC
Bromomethane	EPA-8260	U	UG/L	2.0	03/22/2016	DLC
Chloroethane	EPA-8260	U	UG/L	2.0	03/22/2016	DLC
Carbon Tetrachloride	EPA-8260	U	UG/L	2.0	03/22/2016	DLC
Trichlorofluoromethane	EPA-8260	U	UG/L	2.0	03/22/2016	DLC
1,1-Dichloroethene	EPA-8260	U	UG/L	2.0	03/22/2016	DLC
Methylene Chloride	EPA-8260	U	UG/L	5.0	03/22/2016	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	UG/L	2.0	03/22/2016	DLC
1,1-Dichloroethane	EPA-8260	U	UG/L	2.0	03/22/2016	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	UG/L	2.0	03/22/2016	DLC
2,2-Dichloropropane	EPA-8260	U	UG/L	2.0	03/22/2016	DLC
Bromochloromethane	EPA-8260	U	UG/L	2.0	03/22/2016	DLC
Chloroform	EPA-8260	U	UG/L	2.0	03/22/2016	DLC
1,1,1-Trichloroethane	EPA-8260	U	UG/L	2.0	03/22/2016	DLC
1,1-Dichloropropene	EPA-8260	U	UG/L	2.0	03/22/2016	DLC
1,2-Dichloroethane	EPA-8260	U	UG/L	2.0	03/22/2016	DLC
Trichloroethene	EPA-8260	U	UG/L	2.0	03/22/2016	DLC
1,2-Dichloropropane	EPA-8260	U	UG/L	2.0	03/22/2016	DLC
Dibromomethane	EPA-8260	U	UG/L	2.0	03/22/2016	DLC
Bromodichloromethane	EPA-8260	U	UG/L	2.0	03/22/2016	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	UG/L	2.0	03/22/2016	DLC
Toluene	EPA-8260	U	UG/L	2.0	03/22/2016	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	UG/L	2.0	03/22/2016	DLC
1,1,2-Trichloroethane	EPA-8260	U	UG/L	2.0	03/22/2016	DLC
1,3-Dichloropropane	EPA-8260	U	UG/L	2.0	03/22/2016	DLC
Tetrachloroethylene	EPA-8260	U	UG/L	2.0	03/22/2016	DLC
Dibromochloromethane	EPA-8260	U	UG/L	2.0	03/22/2016	DLC
1,2-Dibromoethane	EPA-8260	U	UG/L	0.010	03/22/2016	DLC
Chlorobenzene	EPA-8260	U	UG/L	2.0	03/22/2016	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	UG/L	2.0	03/22/2016	DLC
Bromoform	EPA-8260	U	UG/L	2.0	03/22/2016	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	UG/L	2.0	03/22/2016	DLC
1,2,3-Trichloropropane	EPA-8260	U	UG/L	2.0	03/22/2016	DLC
Bromobenzene	EPA-8260	U	UG/L	2.0	03/22/2016	DLC
2-Chlorotoluene	EPA-8260	U	UG/L	2.0	03/22/2016	DLC
4-Chlorotoluene	EPA-8260	U	UG/L	2.0	03/22/2016	DLC
1,3-Dichlorobenzene	EPA-8260	U	UG/L	2.0	03/22/2016	DLC



CERTIFICATE OF ANALYSIS

CLIENT: Stantec  
11130 NE 33rd Pl, Suite 200  
Bellevue, WA 98004

DATE: 3/28/2016  
ALS SDG#: EV16030151  
WDOE ACCREDITATION: C601

CLIENT CONTACT: Greg McCormick  
CLIENT PROJECT: 185750287

LABORATORY BLANK RESULTS

**MB-032216W - Batch 102701 - Water by EPA-8260**

1,4-Dichlorobenzene	EPA-8260	U	UG/L	2.0	03/22/2016	DLC
1,2-Dichlorobenzene	EPA-8260	U	UG/L	2.0	03/22/2016	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	UG/L	10	03/22/2016	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	UG/L	2.0	03/22/2016	DLC
Hexachlorobutadiene	EPA-8260	U	UG/L	2.0	03/22/2016	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	UG/L	2.0	03/22/2016	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT: Stantec  
11130 NE 33rd Pl, Suite 200  
Bellevue, WA 98004  
CLIENT CONTACT: Greg McCormick  
CLIENT PROJECT: 185750287

DATE: 3/28/2016  
ALS SDG#: EV16030151  
WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 102701 - Water by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
1,1-Dichloroethene - BS	EPA-8260	88.9			03/22/2016	DLC
1,1-Dichloroethene - BSD	EPA-8260	92.2	4		03/22/2016	DLC
Trichloroethene - BS	EPA-8260	107			03/22/2016	DLC
Trichloroethene - BSD	EPA-8260	108	1		03/22/2016	DLC
Toluene - BS	EPA-8260	98.0			03/22/2016	DLC
Toluene - BSD	EPA-8260	100	2		03/22/2016	DLC
Chlorobenzene - BS	EPA-8260	98.7			03/22/2016	DLC
Chlorobenzene - BSD	EPA-8260	101	2		03/22/2016	DLC

APPROVED BY

Laboratory Director



**ALS Environmental**  
 8620 Holly Drive, Suite 100  
 Everett, WA 98208  
 Phone (425) 356-2600  
 Fax (425) 356-2626  
 http://www.alsglobal.com

# Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only)

616030151

Date 3/18/16 Page 1 of 1

PROJECT ID: 185750287  
 REPORT TO COMPANY: Stantec  
 PROJECT MANAGER: Giny McCormick  
 ADDRESS: 1130 NE 33rd Place  
 Bellevue, WA  
 PHONE (425) 922-6392 FAX:  
 P.O. #: E-MAIL: giny.mccormick@stantec.com  
 INVOICE TO COMPANY: G  
 ATTENTION: Giny McCormick  
 ADDRESS:

ANALYSIS REQUESTED		OTHER (Specify)														
NMTPH-HCID	NMTPH-DX	NMTPH-GX	BTEX by EPA-8021	MTBE by EPA-8021	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polyyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM	PCB Pesticides by EPA 8081/8082	Metals-MTCA-5 RCRA-8 Pt Pol TAL	Metals Other (Specify)	TCLP-Metals VOA Semi-Vol Pest Herbs	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1. Mw-1					X											
2. Mw-2					X											
3. Mw-3					X											
4. Mw-4					X											
5. Mw-5					X											
6. Mw-6					X											
7. Mw-7					X											
8. Mw-8					X											
9. Trip Blank						Hold										
10.																

**SPECIAL INSTRUCTIONS**

SIGNATURES (Name, Company, Date, Time):  
 1. Relinquished By: Joey As 3/18/16 1600  
 Received By: Joey As 3/18/16 4:00

TURNAROUND REQUESTED in Business Days\*  
 OTHER:  
 Specify: \_\_\_\_\_  
 Organic, Metals & Inorganic Analysis  
 1  2  3  4  5  
 Fuels & Hydrocarbon Analysis  
 1  2  3  4  5  
 Standard

Received Rv: \_\_\_\_\_

