King County
Wastewater Treatment Division
Industrial Waste Program
Department of Natural Resources and Parks
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658
206-263-3000 Fax 206-263-3001
TTY Relay: 711

February 27, 2012

James C. Brown
Alaskan Copper Works - 6th Ave.
P.O. Box 3546
Seattle, WA 98124

Dear Mr. Brown:

Results from King County's recent sampling indicate that wastewater from Alaskan Copper Works - 6th Ave. is in compliance with discharge limits. The results of the sample(s) taken on January 30, 2012 are enclosed.

King County appreciates your compliance. If you have any questions, please call me at 206-263-3008.

Sincerely,

Jim Sifford
Investigator
Industrial Waste Program

Enclosure(s)

Alaskan Copper Works - 6th Ave.

Cyanide

Site # A4010 - sample line connection in pretreatment room
Sample Date 30-Jan-2012 **Discharge Rate** NA
Sample # L55014-4 **Time Span** 3.25 Hour(s)
Sample Code Composite **Start Time** 1130

Parameters	CAS	Concentration	Units	Status	Mass Load	Units	Status
Total Cyanide		<MDL	MG/L	Compliance	NA		NA

Field Measurements

Site # A4010 - sample line connection in pretreatment room
Sample Date 30-Jan-2012 **Discharge Rate** 858 GPD
Sample # L55014-6 **Time Span** 24 Hour(s)
Sample Code Composite **Start Time** 1140

Parameters	CAS	Concentration	Units	Status	Mass Load	Units	Status
Discharge Rate		858	GPD	Compliance	NA		NA

Site # A4010 - sample line connection in pretreatment room
Sample Date 30-Jan-2012 **Discharge Rate** NA
Sample # L55014-8 **Time Span** NA
Sample Code Grab **Start Time** 1130

Parameters	CAS	Concentration	Units	Status	Mass Load	Units	Status
pH, Field		10.38	SU	Compliance	NA		NA

<MDL=Less than Method Detection Limit; <RDL=Less than Reporting Detection Limit; NA=Not Applicable; H=Sample handling criteria compromised; R=Data judged unusable.
B=Blank contamination observed; E=Estimated value; TA=Text information available which qualifies data.

Alaskan Copper Works - 6th Ave.

Metals

Site # A4010 - sample line connection in pretreatment room
Sample Date 30-Jan-2012 **Discharge Rate** NA
Sample # L55014-5 **Time Span** 24 Hour(s)
Sample Code Composite **Start Time** 1130

Parameters	CAS	Concentration	Units	Status	Mass Load	Units	Status
Arsenic, Total, ICP		<MDL	MG/L	**Compliance**	NA	LBS/DAY	**Compliance**
Cadmium, Total, ICP		<MDL	MG/L	**Compliance**	NA	LBS/DAY	**Compliance**
Chromium, Total, ICP		.733	MG/L	**Compliance**	.0052	LBS/DAY	**Compliance**
Copper, Total, ICP		1.11	MG/L	**Compliance**	.0079	LBS/DAY	**Compliance**
Lead, Total, ICP		<MDL	MG/L	**Compliance**	NA	LBS/DAY	**Compliance**
Nickel, Total, ICP		.732	MG/L	**Compliance**	.0052	LBS/DAY	**Compliance**
Silver, Total, ICP		<MDL	MG/L	**Compliance**	NA	LBS/DAY	**Compliance**
Zinc, Total, ICP		.0566	MG/L	**Compliance**	.00041	LBS/DAY	**Compliance**

Site # A4010 - sample line connection in pretreatment room
Sample Date 30-Jan-2012 **Discharge Rate** NA
Sample # L55014-7 **Time Span** NA
Sample Code Grab **Start Time** 1130

Parameters	CAS	Concentration	Units	Status	Mass Load	Units	Status
Arsenic, Total, ICP		<MDL	MG/L	**Compliance**	NA		**NA**
Cadmium, Total, ICP		<MDL	MG/L	**Compliance**	NA		**NA**
Chromium, Total, ICP		.959	MG/L	**Compliance**	NA		**NA**
Copper, Total, ICP		1.51	MG/L	**Compliance**	NA		**NA**
Lead, Total, ICP		<MDL	MG/L	**Compliance**	NA		**NA**
Nickel, Total, ICP		.881	MG/L	**Compliance**	NA		**NA**
Silver, Total, ICP		<MDL	MG/L	**Compliance**	NA		**NA**
Zinc, Total, ICP		.0788	MG/L	**Compliance**	NA		**NA**

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Alaskan Copper Works - 6th Ave.

Organics

Parameters	CAS	Concentration	Units	Status	Mass Load	Units	Status
Total Toxic Organics(*)		.2064	MG/L	Compliance	NA		NA

(*)The total toxic organics value is the summation of all quantifiable values greater than 10 ppb for the organic compounds on the federal total toxic organics listing. See table(s) below for details.

Organics - VOA

Parameters	CAS	Concentration	Units	Status	Mass Load	Units	Status
Total Toxic Organics VOA		<MDL 0	UG/L	NA	NA		NA

Site # A4010 - sample line connection in pretreatment room
Sample Date 30-Jan-2012 **Discharge Rate** NA
Sample # L55014-2 **Time Span** 3.25 Hour(s)
Sample Code Composite **Start Time** 1130

Parameters	CAS	Concentration	Units	Status	Mass Load	Units	Status
1,1,1-Trichloroethane	71-55-6	<MDL	UG/L	NA	NA		NA
1,1,2,2-Tetrachloroethane	79-34-5	<MDL	UG/L	NA	NA		NA
1,1,2-Trichloroethane	79-00-5	<MDL	UG/L	NA	NA		NA
1,1,2-Trichloroethylene	79-01-6	<MDL	UG/L	NA	NA		NA
1,1-Dichloroethane	75-34-3	<MDL	UG/L	NA	NA		NA
1,1-Dichloroethylene	75-35-4	<MDL	UG/L	NA	NA		NA
1,2-Dichlorobenzene	95-50-1	<MDL	UG/L	NA	NA		NA
1,2-Dichloroethane	107-06-2	<MDL	UG/L	NA	NA		NA
1,2-Dichloropropane	78-87-5	<MDL	UG/L	NA	NA		NA
1,3-Dichlorobenzene	541-73-1	<MDL	UG/L	NA	NA		NA
1,4-Dichlorobenzene	106-46-7	<MDL	UG/L	NA	NA		NA
2-Chloroethylvinyl ether	110-75-8	<MDL	UG/L	NA	NA		NA
Acrolein	107-02-8	<MDL	UG/L	NA	NA		NA
Acrylonitrile	107-13-1	<MDL	UG/L	NA	NA		NA
Benzene	71-43-2	<MDL	UG/L	NA	NA		NA
Bromodichloromethane	75-27-4	<MDL	UG/L	NA	NA		NA
Bromoform	75-25-2	<MDL	UG/L	NA	NA		NA
Bromomethane	74-83-9	<MDL	UG/L	NA	NA		NA
Carbon Tetrachloride	56-23-5	<MDL	UG/L	NA	NA		NA
Chlorobenzene	108-90-7	<MDL	UG/L	NA	NA		NA
Chlorodibromomethane	124-48-1	<MDL	UG/L	NA	NA		NA
Chloroethane	75-00-3	<MDL	UG/L	NA	NA		NA
Chloroform	67-66-3	<MDL	UG/L	NA	NA		NA
Chloromethane	74-87-3	<MDL	UG/L	NA	NA		NA
Cis-1,3-Dichloropropene	10061-01-5	<MDL	UG/L	NA	NA		NA
Ethylbenzene	100-41-4	<MDL	UG/L	NA	NA		NA
Methylene Chloride	75-09-2	<MDL	UG/L	NA	NA		NA
Tetrachloroethylene	127-18-4	<MDL	UG/L	NA	NA		NA
Toluene	108-88-3	<MDL	UG/L	NA	NA		NA

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Alaskan Copper Works - 6th Ave.

Trans-1,3-Dichloropropene	10061-02-6	<MDL	UG/L	NA	NA	NA
Trichlorofluoromethane	75-69-4	<MDL	UG/L	NA	NA	NA
Vinyl Chloride	75-01-4	<MDL	UG/L	NA	NA	NA

Organics-BNA

Parameters	CAS	Concentration	Units	Status	Mass Load	Units	Status
Total Toxic Organics BNA		206.4	UG/L	NA	NA		NA

Site # A4010 - sample line connection in pretreatment room
Sample Date 30-Jan-2012
Sample # L55014-3
Sample Code Composite

Discharge Rate NA
Time Span 24 Hour(s)
Start Time 1130

Parameters	CAS	Concentration	Units	Status	Mass Load	Units	Status
1,2,4-Trichlorobenzene	120-82-1	<MDL	UG/L	NA	NA		NA
1,2-Diphenylhydrazine	122-66-7	<MDL	UG/L	NA	NA		NA
2,4,6-Trichlorophenol	88-06-2	<MDL	UG/L	NA	NA		NA
2,4-Dichlorophenol	120-83-2	<MDL	UG/L	NA	NA		NA
2,4-Dimethylphenol	105-67-9	<MDL	UG/L	NA	NA		NA
2,4-Dinitrophenol	51-28-5	<MDL	UG/L	NA	NA		NA
2,4-Dinitrotoluene	121-14-2	<MDL	UG/L	NA	NA		NA
2,6-Dinitrotoluene	606-20-2	<MDL	UG/L	NA	NA		NA
2-Chloronaphthalene	91-58-7	<MDL	UG/L	NA	NA		NA
2-Chlorophenol	95-57-8	<MDL	UG/L	NA	NA		NA
2-Nitrophenol	88-75-5	<MDL	UG/L	NA	NA		NA
3,3'-Dichlorobenzidine	91-94-1	<MDL	UG/L	NA	NA		NA
4,6-Dinitro-O-Cresol	534-52-1	<MDL	UG/L	NA	NA		NA
4-Bromophenyl Phenyl Ether	101-55-3	<MDL	UG/L	NA	NA		NA
4-Chlorophenyl Phenyl Ether	7005-72-3	<MDL	UG/L	NA	NA		NA
4-Nitrophenol	100-02-7	<MDL	UG/L	NA	NA		NA
Acenaphthene	83-32-9	<MDL	UG/L	NA	NA		NA
Acenaphthylene	208-96-8	<MDL	UG/L	NA	NA		NA
Anthracene	120-12-7	<MDL	UG/L	NA	NA		NA
Benzidine	92-87-5	<MDL	UG/L	NA	NA		NA
Benzo(a)anthracene	56-55-3	<MDL	UG/L	NA	NA		NA
Benzo(a)pyrene	50-32-8	<MDL	UG/L	NA	NA		NA
Benzo(g,h,i)perylene	191-24-2	<MDL	UG/L	NA	NA		NA
Benzyl Butyl Phthalate	85-68-7	2.83	UG/L	NA	NA		NA
Bis(2-Chloroethoxy)Methane	111-91-1	<MDL	UG/L	NA	NA		NA
Bis(2-Chloroethyl)Ether	111-44-4	<MDL	UG/L	NA	NA		NA
Bis(2-Chloroisopropyl)Ether	108-60-1	<MDL	UG/L	NA	NA		NA
Bis(2-Ethylhexyl)Phthalate	117-81-7	184	UG/L	NA	NA		NA
Chrysene	218-01-9	<MDL	UG/L	NA	NA		NA
Di-N-Butyl Phthalate	84-74-2	12.2	UG/L	NA	NA		NA
Di-N-Octyl Phthalate	117-84-0	<MDL	UG/L	NA	NA		NA

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Alaskan Copper Works - 6th Ave.

Dibenzo(a,h)anthracene	53-70-3	<MDL		UG/L	NA	NA	NA
Diethyl Phthalate	84-66-2		2.05	UG/L	NA	NA	NA
Dimethyl Phthalate	131-11-3		8.72	UG/L	NA	NA	NA
Fluoranthene	206-44-0	<MDL		UG/L	NA	NA	NA
Fluorene	86-73-7	<MDL		UG/L	NA	NA	NA
Hexachlorobenzene	118-74-1	<MDL		UG/L	NA	NA	NA
Hexachlorobutadiene	87-68-3	<MDL		UG/L	NA	NA	NA
Hexachlorocyclopentadiene	77-47-4	<MDL		UG/L	NA	NA	NA
Hexachloroethane	67-72-1	<MDL		UG/L	NA	NA	NA
Indeno(1,2,3-Cd)Pyrene	193-39-5	<MDL		UG/L	NA	NA	NA
Isophorone	78-59-1	<MDL		UG/L	NA	NA	NA
N-Nitrosodi-N-Propylamine	621-64-7	<MDL		UG/L	NA	NA	NA
N-Nitrosodimethylamine	62-75-9	<MDL		UG/L	NA	NA	NA
N-Nitrosodiphenylamine	86-30-6	<MDL		UG/L	NA	NA	NA
Naphthalene	91-20-3	<MDL		UG/L	NA	NA	NA
Nitrobenzene	98-95-3	<MDL		UG/L	NA	NA	NA
Pentachlorophenol	87-86-5	<MDL		UG/L	NA	NA	NA
Phenanthrene	85-01-8	<MDL		UG/L	NA	NA	NA
Phenol	108-95-2		10.2	UG/L	NA	NA	NA
Pyrene	129-00-0	<MDL		UG/L	NA	NA	NA
Benzo(b,j,k)fluoranthene	56832-73-6	<MDL		UG/L	NA	NA	NA

PCB's

Parameters	CAS	Concentration		Units	Status	Mass Load	Units	Status
Total PCB	1336-36-3	<MDL	0	UG/L	NA	NA		NA

Site # A4010 - sample line connection in pretreatment room
Sample Date 30-Jan-2012
Sample # L55014-1
Sample Code Composite

Discharge Rate NA
Time Span 24 Hour(s)
Start Time 1130

Parameters	CAS	Concentration	Units	Status	Mass Load	Units	Status
Aroclor 1016	12674-11-2	<MDL	UG/L	NA	NA		NA
Aroclor 1221	1104-28-2	<MDL	UG/L	NA	NA		NA
Aroclor 1232	11141-16-5	<MDL	UG/L	NA	NA		NA
Aroclor 1242	53469-21-9	<MDL	UG/L	NA	NA		NA
Aroclor 1248	12672-29-6	<MDL	UG/L	NA	NA		NA
Aroclor 1254	11097-69-1	<MDL	UG/L	NA	NA		NA
Aroclor 1260	11096-82-5	<MDL	UG/L	NA	NA		NA

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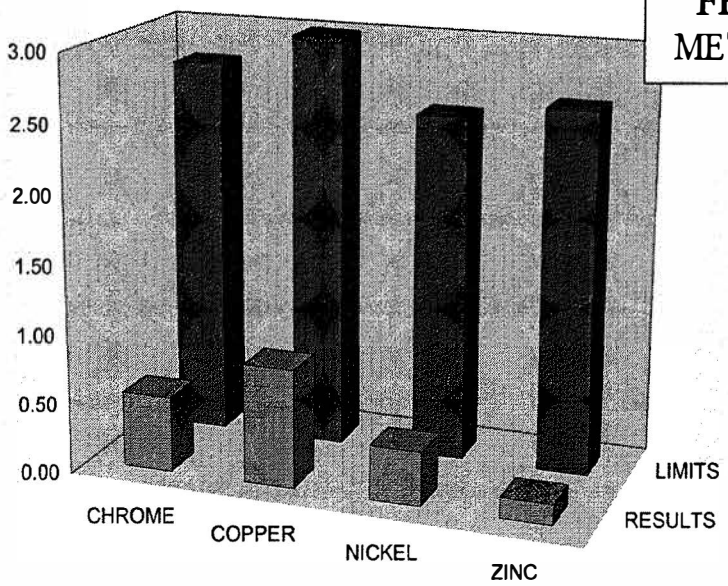
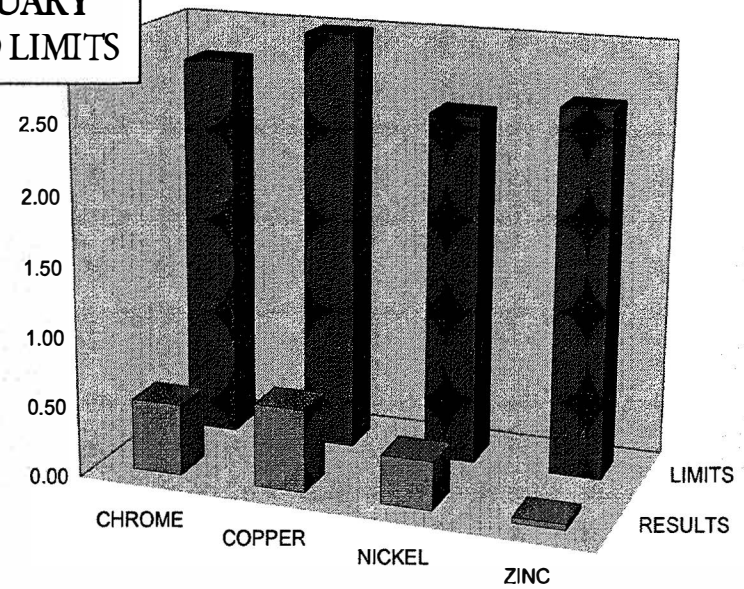
FEBRUARY
METRO LIMITS





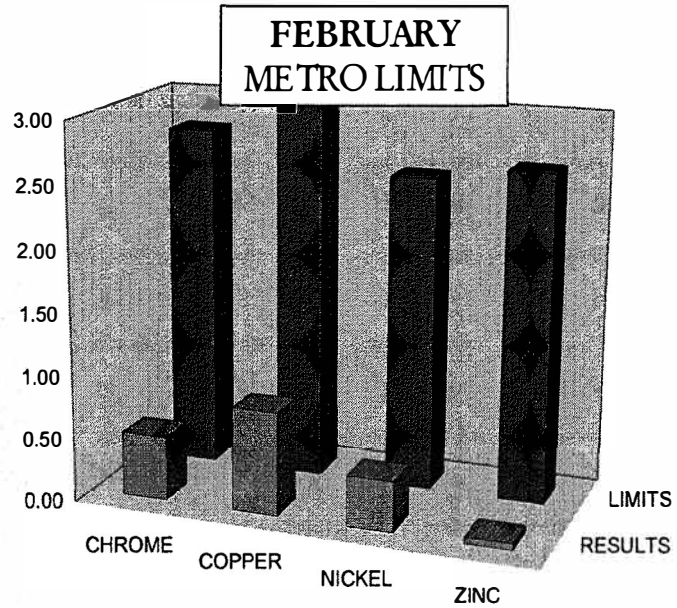
ALASKAN COPPER WORKS 3200 FACILITY FEBRUARY 2, 2012 COMPOSITE M08305	ALASKAN COPPER WORKS 3200 FACILITY FEBRUARY 9, 2012 COMPOSITE M08331

VISUAL REPRESENTATION OF THE LAB RESULTS

NOTE: ALL LABORATORY RESULTS HAVE BEEN CHANGED FROM **ppb** TO **ppm** FOR REPORTING PURPOSES

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.54	0.85	0.39	0.15
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.51	0.59	0.35	0.04
LIMITS	2.75	3.00	2.50	2.61



ALASKAN COPPER WORKS
3200 FACILITY
FEBRUARY 17, 2012
COMPOSITE M08358

VISUAL REPRESENTATION OF THE LAB RESULTS

NOTE: ALL LABORATORY RESULTS HAVE BEEN CHANGED FROM **ppb** TO **ppm** FOR REPORTING PURPOSES

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.51	0.82	0.40	0.05
LIMITS	2.75	3.00	2.50	2.61

Industrial Waste Monthly Self-Monitoring Report

King County

Mail or FAX to: King County Industrial Waste
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658
Phone 206-263-3000 / FAX 206-263-3001

AKC-0003947

Company Name: ALASKAN COPPER WORKS E. MARGINAL WAY **Sample Site No.** A4009 **Permit/DA No.:** 7201-04

Please Specify Month & Year: **Month:** FEBRUARY **2012**

This form is available at www.kingcounty.gov/industrialwaste.

All units are mg/l unless otherwise noted. Note: For cyanide, circle test performed - amenable or total ▼

Sample Date (circle)	Sample Type C (Composite) G (grab) BC (batch)	pH Min	pH Max	Cadmium, Cd	Chromium, Cr	Copper, Cu	Lead, Pb	Mercury, Hg	Nickel, Ni	Silver, Ag	Zinc, Zn	Cyanide (CN) Amenable (A) or Total (T)	NP Fats, Oils, and Grease (Average of 3 grabs)	Daily Flow (GPD) Industrial	Notes (Indicate Batch Discharges)
1															
2															
3															
4															
5															
6															
7															
8															
9															
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NOT IN USE THIS MONTH

Monthly Min pH		& Date		Total Monthly Flow (gallons)	
Monthly Max pH		& Date		Maximum Daily Flow	& Date

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

James Brown 3/7/12

Signature of Principal Executive or Authorized Agent Date

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: **Monthly report is due by the 15th of each month.**

King County

Industrial Waste Monthly Self-Monitoring Report

Mail or FAX to: King County Industrial Waste
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658
Phone 206-263-3000 / FAX 206-263-3001

AKC-0003948

Company Name: ALASKAN COPPER WORKS 3200 6TH AVE. S. **Sample Site No.** A4010 **Permit/DA No.:** 7238-04

Please Specify Month & Year: **Month:** FEBRUARY **2012**

This form is available at www.kingcounty.gov/industrialwaste.

All units are mg/l unless otherwise noted. Note: For cyanide, circle test performed - amenable or total ▼

Sample Date (circle)	Sample Type C (Composite) G (grab) BC (batch)	pH Min	pH Max	Cadmium, Cd	Chromium, Cr	Copper, Cu	Lead, Pb	Mercury, Hg	Nickel, Ni	Silver, Ag	Zinc, Zn	Cyanide (CN) Amenable (A) or Total (T)	NP Fats, Oils, and Grease (Average of 3 grabs)	Daily Flow (GPD) Industrial	Notes (Indicate Batch Discharges)
1		10.5	10.6											802	
(2)	C	10.3	10.4		.54	.85			.39		.15			792	
3		10.3	10.4											1039	
4		10.4	10.4											852	
5		——	——											——	
6		10.3	10.7											350	
7		10.4	10.6											1155	
8		10.3	10.4											636	
(9)	C	10.3	10.7		.51	.59			.35		.04			798	
10		10.4	10.6											1410	
11		——	——											——	
12		——	——											——	
13		10.3	10.3											1002	
14		10.3	10.6											1253	
15		10.4	10.7											1011	
16		10.6	10.7											1033	
(17)	C	10.5	10.6		.51	.82			.40		.05			1099	
18		10.4	10.4											1334	
19		——	——											——	
20		10.3	10.4											479	
21		10.2	10.6											1993	
22		10.4	10.7											1319	
23		10.6	10.9											1128	
24		10.6	10.7											1324	
25		——	——											——	
26		——	——											——	
27		10.4	10.6											1058	
28		10.4	10.5											1386	
29		10.3	10.6											1354	
30	——	——	——	——	——	——	——	——	——	——	——	——	——	——	
31	——	——	——	——	——	——	——	——	——	——	——	——	——	——	

Monthly Min pH	10.2	& Date	2-21-12	Total Monthly Flow (gallons)	24607		
Monthly Max pH	10.9	& Date	2-23-12	Maximum Daily Flow	1993	& Date	2-21-12

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent 3/7/12 Date

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: **Monthly report is due by the 15th of each month.**