



Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Wednesday, March 17, 2004

REVISED 03/17/2004

Barbara Sylvester
Brown & Caldwell
201 East Washington Street
Suite 500
Phoenix, AZ 85004
TEL: (602) 567-4000
FAX: (602) 567-4001
RE: Florence Copper/21622.008

Order No.: 03121286

Dear Barbara Sylvester:

This report was revised on 3/17/04 to report the cation/anion balance as % difference and to report total xylenes by EPA Method 8260.

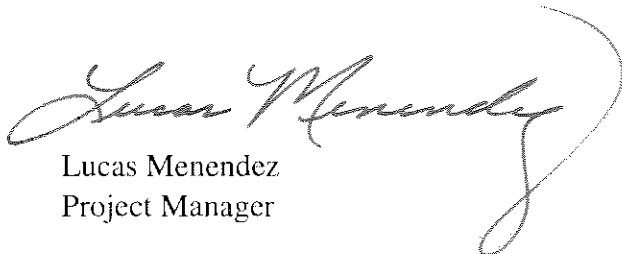
Aerotech Environmental received 12 sample(s) on 12/29/2003 for the analyses presented in the following report.

This report includes the following information:

- Case Narrative.
- Analytical Report: includes test results, report limit (Limit), any applicable data qualifier (Qual), units, dilution factor (DF), and date analyzed.
- QC Summary Report.

This communication is intended only for the individual or entity to whom it is directed. It may contain information that is privileged, confidential, or otherwise exempt from disclosure under applicable law. Dissemination, distribution, or copying of this communication by anyone other than the intended recipient, or a duly designated employee or agent of such recipient, is prohibited. If you have received this communication in error, please notify us immediately and destroy this message and all attachments thereto. If you have any questions regarding these test results, please do not hesitate to call.

Sincerely,



Lucas Menendez
Project Manager



Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Aerotech Environmental

Date: 17-Mar-04

CLIENT: Brown & Caldwell
Project: Florence Copper/21622.008
Lab Order: 03121286

CASE NARRATIVE

Samples were analyzed using methods outlined in references such as:

Standard Methods for the Examination of Water and Wastewater, 19th Edition, 1995.

Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Revised March 1983.

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

40 CFR, Part 136, Revised 1995. Appendix A to Part 136 - Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater.

NIOSH Manual of Analytical Methods, Fourth Edition, 1994.

Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.

Aerotech Environmental Laboratories (AEL) holds Arizona certification no. AZ0610 and AEL-Tucson holds Arizona certification no. AZ0609.

Aerotech Laboratories, Inc. (AEL division - Laboratory ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation. AEL participates in the AIHA Environmental Lead Proficiency Analytical Testing (ELPAT) program for lead in soil, paint chips and dust wipes.

Analytical Comments:

All method blanks and laboratory control spikes met EPA method and/or laboratory quality control objectives for the analyses included in this report.

Method 8015 was performed by Del Mar Analytical in Phoenix, AZ. A copy of their report is enclosed.

Data Qualifiers:

Listed below are the data qualifiers used in your analytical report to explain any analytical or quality control issues. You will find them noted in your report under the column header "QUAL". Any quality control deficiencies that cannot be adequately described by these qualifiers will be addressed in the analytical comments section of this case narrative.

- D2 Sample required dilution due to high concentration of target analyte.
- M3 The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
- M6 Matrix spike recovery was high. Data reported per ADEQ policy 0154.000.
- M7 Matrix spike recovery was low. Data reported per ADEQ policy 0154.000.



Aerotech Environmental Laboratories

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Aerotech Environmental

Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell
Lab Order: 03121286
Project: Florence Copper/21622.008
Lab ID: 03121286-01A

Client Sample ID: BHP-9
Tag Number:
Collection Date: 12/29/2003 8:00:00 AM
Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
CATION/ANION BALANCE						
Cation/Anion Balance	2.88	0		%	1	1/16/2004
NITROGEN, NITRATE AS N (CALCULATED)						
Nitrogen, Nitrate -N	0.50	0		mg/L	1	1/6/2004
ANIONS BY ION CHROMATOGRAPHY						
Chloride	140	10	D2	mg/L	5	1/10/2004 3:08:00 AM
Fluoride	0.96	0.40		mg/L	1	1/9/2004 12:48:00 AM
Sulfate	130	10	D2	mg/L	5	1/10/2004 3:08:00 AM
ALKALINITY						
Alkalinity, Bicarbonate (As CaCO ₃)	2.0	2.0		mg/L CaCO ₃	1	1/2/2004
Alkalinity, Carbonate (As CaCO ₃)	< 2.0	2.0		mg/L CaCO ₃	1	1/2/2004
Alkalinity, Hydroxide (As CaCO ₃)	< 2.0	2.0		mg/L CaCO ₃	1	1/2/2004
Alkalinity, Total (As CaCO ₃)	< 6.0	6.0		mg/L CaCO ₃	1	1/2/2004
NITROGEN, NITRITE AS N						
Nitrogen, Nitrite - N	< 0.010	0.010		mg/L	1	12/30/2003 3:05:00 PM
PH						
pH	4.95	2.00		pH units	1	12/30/2003 7:30:00 AM
RESIDUE, FILTERABLE						
Total Dissolved Solids	490	10		mg/L	1	12/30/2003

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

(1) AEL - Tucson Laboratory

(2) AEL - Knudsen Laboratory



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Aerotech Environmental

Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell
Lab Order: 03121286
Project: Florence Copper/21622.008
Lab ID: 03121286-01B

Client Sample ID: BHP-9
Tag Number:
Collection Date: 12/29/2003 8:00:00 AM
Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS, DISSOLVED		E200.7		Analyst: PR		
Aluminum, Dissolved	1.1	0.10		mg/L	1	1/5/2004
Beryllium, Dissolved	0.0011	0.0010		mg/L	1	1/5/2004
Calcium, Dissolved	46	2.0		mg/L	1	1/5/2004
Copper, Dissolved	8.9	0.010		mg/L	1	1/5/2004
Iron, Dissolved	< 0.050	0.050		mg/L	1	1/5/2004
Magnesium, Dissolved	12	0.25		mg/L	1	1/5/2004
Potassium, Dissolved	5.7	2.0		mg/L	1	1/5/2004
Silica (Silicon dioxide-SiO ₂)	84	0.21		mg/L	1	1/5/2004
Sodium, Dissolved	78	2.0		mg/L	1	1/5/2004
Zinc, Dissolved	0.073	0.050		mg/L	1	1/5/2004
ICP/MS METALS, DISSOLVED		E200.8		Analyst: HK		
Antimony, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 2:23:51 PM
Arsenic, Dissolved	0.0060	0.0010		mg/L	1	1/6/2004 2:23:51 PM
Barium	0.014	0.0010		mg/L	1	1/6/2004 2:23:51 PM
Cadmium, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 2:23:51 PM
Chromium, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 2:23:51 PM
Cobalt, Dissolved	0.032	0.0010		mg/L	1	1/6/2004 2:23:51 PM
Lead, Dissolved	0.0038	0.0010		mg/L	1	1/6/2004 2:23:51 PM
Manganese, Dissolved	0.47	0.0025		mg/L	1	1/6/2004 2:23:51 PM
Nickel, Dissolved	0.041	0.0010		mg/L	1	1/6/2004 2:23:51 PM
Selenium, Dissolved	0.0011	0.0010		mg/L	1	1/6/2004 2:23:51 PM
Thallium, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 2:23:51 PM
MERCURY, DISSOLVED		E245.1		Analyst: CU		
Mercury	< 0.00020	0.00020		mg/L	1	1/20/2004 3:30:55 PM

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

(1) AEL - Tucson Laboratory

(2) AEL - Knudsen Laboratory



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Aerotech Environmental

Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell
Lab Order: 03121286
Project: Florence Copper/21622.008
Lab ID: 03121286-01C

Client Sample ID: BHP-9
Tag Number:
Collection Date: 12/29/2003 8:00:00 AM
Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NITRATE AND NITRITE IN WATER		E353.2				Analyst: D N
Nitrogen, Nitrate/Nitrite Total (As N)	0.50	0.050		mg/L	1	1/5/2004

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

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Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell

Client Sample ID: BHP-9

Lab Order: 03121286

Tag Number:

Project: Florence Copper/21622.008

Collection Date: 12/29/2003 8:00:00 AM

Lab ID: 03121286-01D

Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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PURGEABLE ORGANIC COMPOUNDS

E524.2

Analyst: SP

Benzene	< 0.00050	0.00050		mg/L	1	12/30/2003
Ethylbenzene	< 0.00050	0.00050		mg/L	1	12/30/2003
m,p-Xylene	< 0.00050	0.00050		mg/L	1	12/30/2003
o-Xylene	< 0.00050	0.00050		mg/L	1	12/30/2003
Toluene	< 0.00050	0.00050		mg/L	1	12/30/2003
Total Xylene	< 0.0010	0.0010		mg/L	1	12/30/2003
Surr: 1,2-Dichlorobenzene-d4	99.6	70-130		%REC	1	12/30/2003
Surr: 4-Bromofluorobenzene	99.0	70-130		%REC	1	12/30/2003

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

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Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell
Lab Order: 03121286
Project: Florence Copper/21622.008
Lab ID: 03121286-02A

Client Sample ID: BHP-8
Tag Number:
Collection Date: 12/29/2003 8:40:00 AM
Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
CATION/ANION BALANCE						
Cation/Anion Balance	1.40	0		%	1	1/16/2004
NITROGEN, NITRATE AS N (CALCULATED)						
Nitrogen, Nitrate -N	0.52	0		mg/L	1	1/6/2004
ANIONS BY ION CHROMATOGRAPHY						
Chloride	140	10	D2	mg/L	5	1/10/2004 3:24:00 AM
Fluoride	0.92	0.40		mg/L	1	1/9/2004 1:04:00 AM
Sulfate	160	10	D2	mg/L	5	1/10/2004 3:24:00 AM
ALKALINITY						
Alkalinity, Bicarbonate (As CaCO ₃)	4.0	2.0		mg/L CaCO ₃	1	1/2/2004
Alkalinity, Carbonate (As CaCO ₃)	< 2.0	2.0		mg/L CaCO ₃	1	1/2/2004
Alkalinity, Hydroxide (As CaCO ₃)	< 2.0	2.0		mg/L CaCO ₃	1	1/2/2004
Alkalinity, Total (As CaCO ₃)	< 6.0	6.0		mg/L CaCO ₃	1	1/2/2004
NITROGEN, NITRITE AS N						
Nitrogen, Nitrite - N	< 0.010	0.010		mg/L	1	12/30/2003 3:05:00 PM
PH						
pH	5.24	2.00		pH units	1	12/30/2003 7:30:00 AM
RESIDUE, FILTERABLE						
Total Dissolved Solids	530	10		mg/L	1	12/30/2003

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

(1) AEL - Tucson Laboratory

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Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell
Lab Order: 03121286
Project: Florence Copper/21622.008
Lab ID: 03121286-02B

Client Sample ID: BHP-8
Tag Number:
Collection Date: 12/29/2003 8:40:00 AM
Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS, DISSOLVED		E200.7		Analyst: PR		
Aluminum, Dissolved	0.91	0.10		mg/L	1	1/5/2004
Beryllium, Dissolved	0.0011	0.0010		mg/L	1	1/5/2004
Calcium, Dissolved	48	2.0		mg/L	1	1/5/2004
Copper, Dissolved	9.6	0.010		mg/L	1	1/5/2004
Iron, Dissolved	< 0.050	0.050		mg/L	1	1/5/2004
Magnesium, Dissolved	13	0.25		mg/L	1	1/5/2004
Potassium, Dissolved	6.2	2.0		mg/L	1	1/5/2004
Silica (Silicon dioxide-SiO ₂)	88	0.21		mg/L	1	1/5/2004
Sodium, Dissolved	82	2.0		mg/L	1	1/5/2004
Zinc, Dissolved	0.067	0.050		mg/L	1	1/5/2004
ICP/MS METALS, DISSOLVED		E200.8		Analyst: HK		
Antimony, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 2:36:45 PM
Arsenic, Dissolved	0.0044	0.0010		mg/L	1	1/6/2004 2:36:45 PM
Barium	0.013	0.0010		mg/L	1	1/6/2004 2:36:45 PM
Cadmium, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 2:36:45 PM
Chromium, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 2:36:45 PM
Cobalt, Dissolved	0.037	0.0010		mg/L	1	1/6/2004 2:36:45 PM
Lead, Dissolved	0.0035	0.0010		mg/L	1	1/6/2004 2:36:45 PM
Manganese, Dissolved	0.46	0.0025		mg/L	1	1/6/2004 2:36:45 PM
Nickel, Dissolved	0.042	0.0010		mg/L	1	1/6/2004 2:36:45 PM
Selenium, Dissolved	0.0026	0.0010		mg/L	1	1/6/2004 2:36:45 PM
Thallium, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 2:36:45 PM
MERCURY, DISSOLVED		E245.1		Analyst: CU		
Mercury	< 0.00020	0.00020		mg/L	1	1/20/2004 3:30:55 PM

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

(1) AEL - Tucson Laboratory

(2) AEL - Knudsen Laboratory



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Aerotech Environmental

Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell

Client Sample ID: BHP-8

Lab Order: 03121286

Tag Number:

Project: Florence Copper/21622.008

Collection Date: 12/29/2003 8:40:00 AM

Lab ID: 03121286-02C

Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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NITRATE AND NITRITE IN WATER

E353.2

Analyst: D N

Nitrogen, Nitrate/Nitrite Total (As N)

0.52

0.050

mg/L

1

1/5/2004

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

(1) AEL - Tucson Laboratory

(2) AEL - Knudsen Laboratory



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Aerotech Environmental

Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell

Client Sample ID: BHP-8

Lab Order: 03121286

Tag Number:

Project: Florence Copper/21622.008

Collection Date: 12/29/2003 8:40:00 AM

Lab ID: 03121286-02D

Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PURGEABLE ORGANIC COMPOUNDS		E524.2		Analyst: SP		
Benzene	< 0.00050	0.00050		mg/L	1	12/30/2003
Ethylbenzene	< 0.00050	0.00050		mg/L	1	12/30/2003
m,p-Xylene	< 0.00050	0.00050		mg/L	1	12/30/2003
o-Xylene	< 0.00050	0.00050		mg/L	1	12/30/2003
Toluene	< 0.00050	0.00050		mg/L	1	12/30/2003
Total Xylene	< 0.0010	0.0010		mg/L	1	12/30/2003
Surr: 1,2-Dichlorobenzene-d4	97.0	70-130		%REC	1	12/30/2003
Surr: 4-Bromofluorobenzene	98.2	70-130		%REC	1	12/30/2003

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

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Aerotech Environmental

Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell
Lab Order: 03121286
Project: Florence Copper/21622.008
Lab ID: 03121286-03A

Client Sample ID: BHP-6
Tag Number:
Collection Date: 12/29/2003 9:05:00 AM
Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
CATION/ANION BALANCE						
Cation/Anion Balance	1.38	0		%	1	1/16/2004
NITROGEN, NITRATE AS N (CALCULATED)						
Nitrogen, Nitrate -N	0.53	0		mg/L	1	1/6/2004
ANIONS BY ION CHROMATOGRAPHY						
Chloride	140	10	D2	mg/L	5	1/10/2004 4:13:00 AM
Fluoride	0.86	0.40		mg/L	1	1/9/2004 1:21:00 AM
Sulfate	150	10	D2	mg/L	5	1/10/2004 4:13:00 AM
ALKALINITY						
Alkalinity, Bicarbonate (As CaCO ₃)	< 2.0	2.0		mg/L CaCO ₃	1	1/2/2004
Alkalinity, Carbonate (As CaCO ₃)	< 2.0	2.0		mg/L CaCO ₃	1	1/2/2004
Alkalinity, Hydroxide (As CaCO ₃)	< 2.0	2.0		mg/L CaCO ₃	1	1/2/2004
Alkalinity, Total (As CaCO ₃)	< 6.0	6.0		mg/L CaCO ₃	1	1/2/2004
NITROGEN, NITRITE AS N						
Nitrogen, Nitrite - N	< 0.010	0.010		mg/L	1	12/30/2003 3:05:00 PM
PH						
pH	4.38	2.00		pH units	1	12/30/2003 7:30:00 AM
RESIDUE, FILTERABLE						
Total Dissolved Solids	550	10		mg/L	1	12/30/2003

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

(1) AEL - Tucson Laboratory

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Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell
Lab Order: 03121286
Project: Florence Copper/21622.008
Lab ID: 03121286-03B

Client Sample ID: BHP-6
Tag Number:
Collection Date: 12/29/2003 9:05:00 AM
Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS, DISSOLVED		E200.7		Analyst: PR		
Aluminum, Dissolved	0.96	0.10		mg/L	1	1/5/2004
Beryllium, Dissolved	0.0011	0.0010		mg/L	1	1/5/2004
Calcium, Dissolved	51	2.0		mg/L	1	1/5/2004
Copper, Dissolved	8.5	0.010		mg/L	1	1/5/2004
Iron, Dissolved	< 0.050	0.050		mg/L	1	1/5/2004
Magnesium, Dissolved	12	0.25		mg/L	1	1/5/2004
Potassium, Dissolved	5.8	2.0		mg/L	1	1/5/2004
Silica (Silicon dioxide-SiO ₂)	120	0.21		mg/L	1	1/5/2004
Sodium, Dissolved	75	2.0		mg/L	1	1/5/2004
Zinc, Dissolved	0.052	0.050		mg/L	1	1/5/2004
ICP/MS METALS, DISSOLVED		E200.8		Analyst: HK		
Antimony, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 2:41:04 PM
Arsenic, Dissolved	0.0098	0.0010		mg/L	1	1/6/2004 2:41:04 PM
Barium	0.011	0.0010		mg/L	1	1/6/2004 2:41:04 PM
Cadmium, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 2:41:04 PM
Chromium, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 2:41:04 PM
Cobalt, Dissolved	0.031	0.0010		mg/L	1	1/6/2004 2:41:04 PM
Lead, Dissolved	0.0039	0.0010		mg/L	1	1/6/2004 2:41:04 PM
Manganese, Dissolved	0.45	0.0025		mg/L	1	1/6/2004 2:41:04 PM
Nickel, Dissolved	0.036	0.0010		mg/L	1	1/6/2004 2:41:04 PM
Selenium, Dissolved	0.0021	0.0010		mg/L	1	1/6/2004 2:41:04 PM
Thallium, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 2:41:04 PM
MERCURY, DISSOLVED		E245.1		Analyst: CU		
Mercury	< 0.00020	0.00020		mg/L	1	1/20/2004 3:30:55 PM

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

(1) AEL - Tucson Laboratory

(2) AEL - Knudsen Laboratory



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Aerotech Environmental

Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell
Lab Order: 03121286
Project: Florence Copper/21622.008
Lab ID: 03121286-03C

Client Sample ID: BHP-6
Tag Number:
Collection Date: 12/29/2003 9:05:00 AM
Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NITRATE AND NITRITE IN WATER		E353.2				Analyst: D N
Nitrogen, Nitrate/Nitrite Total (As N)	0.53	0.050		mg/L	1	1/5/2004

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

(1) AEL - Tucson Laboratory

(2) AEL - Knudsen Laboratory



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Aerotech Environmental

Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell
Lab Order: 03121286
Project: Florence Copper/21622.008
Lab ID: 03121286-03D

Client Sample ID: BHP-6
Tag Number:
Collection Date: 12/29/2003 9:05:00 AM
Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PURGEABLE ORGANIC COMPOUNDS		E524.2		Analyst: SP		
Benzene	< 0.00050	0.00050		mg/L	1	12/30/2003
Ethylbenzene	< 0.00050	0.00050		mg/L	1	12/30/2003
m,p-Xylene	< 0.00050	0.00050		mg/L	1	12/30/2003
o-Xylene	< 0.00050	0.00050		mg/L	1	12/30/2003
Toluene	< 0.00050	0.00050		mg/L	1	12/30/2003
Total Xylene	< 0.0010	0.0010		mg/L	1	12/30/2003
Surr: 1,2-Dichlorobenzene-d4	106	70-130		%REC	1	12/30/2003
Surr: 4-Bromofluorobenzene	102	70-130		%REC	1	12/30/2003

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

(1) AEL - Tucson Laboratory

(2) AEL - Knudsen Laboratory



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Aerotech Environmental

Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell
Lab Order: 03121286
Project: Florence Copper/21622.008
Lab ID: 03121286-04A

Client Sample ID: BHP-7
Tag Number:
Collection Date: 12/29/2003 9:30:00 AM
Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
CATION/ANION BALANCE		CALC				Analyst: SS
Cation/Anion Balance	1.28	0		%	1	1/16/2004
NITROGEN, NITRATE AS N (CALCULATED)		CALC				Analyst: SS
Nitrogen, Nitrate -N	0.49	0		mg/L	1	1/6/2004
ANIONS BY ION CHROMATOGRAPHY		E300				Analyst: LB
Chloride	140	10	D2	mg/L	5	1/10/2004 4:13:00 AM
Fluoride	0.94	0.40		mg/L	1	1/9/2004 1:37:00 AM
Sulfate	97	2.0		mg/L	1	1/9/2004 1:37:00 AM
ALKALINITY		M2320 B				Analyst: MT
Alkalinity, Bicarbonate (As CaCO ₃)	10	2.0		mg/L CaCO ₃	1	1/2/2004
Alkalinity, Carbonate (As CaCO ₃)	< 2.0	2.0		mg/L CaCO ₃	1	1/2/2004
Alkalinity, Hydroxide (As CaCO ₃)	< 2.0	2.0		mg/L CaCO ₃	1	1/2/2004
Alkalinity, Total (As CaCO ₃)	10	6.0		mg/L CaCO ₃	1	1/2/2004
NITROGEN, NITRITE AS N		M4500-NO2 B				Analyst: AT
Nitrogen, Nitrite - N	< 0.010	0.010		mg/L	1	12/30/2003 3:05:00 PM
PH		E150.1				Analyst: AT
pH	5.77	2.00		pH units	1	12/30/2003 7:30:00 AM
RESIDUE, FILTERABLE		M2540 C				Analyst: AC
Total Dissolved Solids	440	10		mg/L	1	12/30/2003

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

(1) AEL - Tucson Laboratory

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Aerotech Environmental Laboratories

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Aerotech Environmental

Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell
Lab Order: 03121286
Project: Florence Copper/21622.008
Lab ID: 03121286-04B

Client Sample ID: BHP-7
Tag Number:
Collection Date: 12/29/2003 9:30:00 AM
Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS, DISSOLVED		E200.7		Analyst: PR		
Aluminum, Dissolved	0.49	0.10		mg/L	1	1/5/2004
Beryllium, Dissolved	< 0.0010	0.0010		mg/L	1	1/5/2004
Calcium, Dissolved	34	2.0		mg/L	1	1/5/2004
Copper, Dissolved	3.4	0.010		mg/L	1	1/5/2004
Iron, Dissolved	< 0.050	0.050		mg/L	1	1/5/2004
Magnesium, Dissolved	9.4	0.25		mg/L	1	1/5/2004
Potassium, Dissolved	5.5	2.0		mg/L	1	1/5/2004
Silica (Silicon dioxide-SiO ₂)	80	0.21		mg/L	1	1/5/2004
Sodium, Dissolved	82	2.0		mg/L	1	1/5/2004
Zinc, Dissolved	< 0.050	0.050		mg/L	1	1/5/2004
ICP/MS METALS, DISSOLVED		E200.8		Analyst: HK		
Antimony, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 2:45:22 PM
Arsenic, Dissolved	0.0089	0.0010		mg/L	1	1/6/2004 2:45:22 PM
Barium	0.023	0.0010		mg/L	1	1/6/2004 2:45:22 PM
Cadmium, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 2:45:22 PM
Chromium, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 2:45:22 PM
Cobalt, Dissolved	0.021	0.0010		mg/L	1	1/6/2004 2:45:22 PM
Lead, Dissolved	0.0013	0.0010		mg/L	1	1/6/2004 2:45:22 PM
Manganese, Dissolved	0.26	0.0025		mg/L	1	1/6/2004 2:45:22 PM
Nickel, Dissolved	0.026	0.0010		mg/L	1	1/6/2004 2:45:22 PM
Selenium, Dissolved	0.0018	0.0010		mg/L	1	1/6/2004 2:45:22 PM
Thallium, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 2:45:22 PM
MERCURY, DISSOLVED		E245.1		Analyst: CU		
Mercury	< 0.00020	0.00020		mg/L	1	1/20/2004 3:30:55 PM

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

(1) AEL - Tucson Laboratory

(2) AEL - Knudsen Laboratory



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Aerotech Environmental

Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell
Lab Order: 03121286
Project: Florence Copper/21622.008
Lab ID: 03121286-04C

Client Sample ID: BHP-7
Tag Number:
Collection Date: 12/29/2003 9:30:00 AM
Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NITRATE AND NITRITE IN WATER		E353.2				Analyst: D N
Nitrogen, Nitrate/Nitrite Total (As N)	0.49	0.050		mg/L	1	1/5/2004

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.
(1) AEL - Tucson Laboratory
(2) AEL - Knudsen Laboratory



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Aerotech Environmental

Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell
Lab Order: 03121286
Project: Florence Copper/21622.008
Lab ID: 03121286-04D

Client Sample ID: BHP-7
Tag Number:
Collection Date: 12/29/2003 9:30:00 AM
Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PURGEABLE ORGANIC COMPOUNDS		E524.2		Analyst: SP		
Benzene	< 0.00050	0.00050		mg/L	1	12/30/2003
Ethylbenzene	< 0.00050	0.00050		mg/L	1	12/30/2003
m,p-Xylene	< 0.00050	0.00050		mg/L	1	12/30/2003
o-Xylene	< 0.00050	0.00050		mg/L	1	12/30/2003
Toluene	< 0.00050	0.00050		mg/L	1	12/30/2003
Total Xylene	< 0.0010	0.0010		mg/L	1	12/30/2003
Surr: 1,2-Dichlorobenzene-d4	100	70-130		%REC	1	12/30/2003
Surr: 4-Bromofluorobenzene	101	70-130		%REC	1	12/30/2003

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

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Aerotech Environmental

Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell
Lab Order: 03121286
Project: Florence Copper/21622.008
Lab ID: 03121286-05A

Client Sample ID: OWB-3
Tag Number:
Collection Date: 12/29/2003 10:00:00 AM
Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
CATION/ANION BALANCE						
Cation/Anion Balance	3.77	0		%	1	1/16/2004
NITROGEN, NITRATE AS N (CALCULATED)						
Nitrogen, Nitrate -N	0.46	0		mg/L	1	1/6/2004
ANIONS BY ION CHROMATOGRAPHY						
Chloride	130	10	D2	mg/L	5	1/10/2004 4:13:00 AM
Fluoride	0.53	0.40		mg/L	1	1/9/2004 1:53:00 AM
Sulfate	58	2.0		mg/L	1	1/9/2004 1:53:00 AM
ALKALINITY						
Alkalinity, Bicarbonate (As CaCO ₃)	160	2.0		mg/L CaCO ₃	1	1/2/2004
Alkalinity, Carbonate (As CaCO ₃)	< 2.0	2.0		mg/L CaCO ₃	1	1/2/2004
Alkalinity, Hydroxide (As CaCO ₃)	< 2.0	2.0		mg/L CaCO ₃	1	1/2/2004
Alkalinity, Total (As CaCO ₃)	160	6.0		mg/L CaCO ₃	1	1/2/2004
NITROGEN, NITRITE AS N						
Nitrogen, Nitrite - N	< 0.010	0.010		mg/L	1	12/30/2003 3:05:00 PM
PH						
pH	7.85	2.00		pH units	1	12/30/2003 7:30:00 AM
RESIDUE, FILTERABLE						
Total Dissolved Solids	480	10		mg/L	1	12/30/2003

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

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Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell
Lab Order: 03121286
Project: Florence Copper/21622.008
Lab ID: 03121286-05B

Client Sample ID: OWB-3
Tag Number:
Collection Date: 12/29/2003 10:00:00 AM
Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS, DISSOLVED		E200.7		Analyst: PR		
Aluminum, Dissolved	< 0.10	0.10		mg/L	1	1/5/2004
Beryllium, Dissolved	< 0.0010	0.0010		mg/L	1	1/5/2004
Calcium, Dissolved	61	2.0		mg/L	1	1/5/2004
Copper, Dissolved	0.016	0.010		mg/L	1	1/5/2004
Iron, Dissolved	< 0.050	0.050		mg/L	1	1/5/2004
Magnesium, Dissolved	12	0.25		mg/L	1	1/5/2004
Potassium, Dissolved	6.7	2.0		mg/L	1	1/5/2004
Silica (Silicon dioxide-SiO ₂)	48	0.21		mg/L	1	1/5/2004
Sodium, Dissolved	90	2.0		mg/L	1	1/5/2004
Zinc, Dissolved	< 0.050	0.050		mg/L	1	1/5/2004
ICP/MS METALS, DISSOLVED		E200.8		Analyst: HK		
Antimony, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 2:49:41 PM
Arsenic, Dissolved	0.0016	0.0010		mg/L	1	1/6/2004 2:49:41 PM
Barium	0.014	0.0010		mg/L	1	1/6/2004 2:49:41 PM
Cadmium, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 2:49:41 PM
Chromium, Dissolved	0.0013	0.0010		mg/L	1	1/6/2004 2:49:41 PM
Cobalt, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 2:49:41 PM
Lead, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 2:49:41 PM
Manganese, Dissolved	< 0.0025	0.0025		mg/L	1	1/6/2004 2:49:41 PM
Nickel, Dissolved	0.0020	0.0010		mg/L	1	1/6/2004 2:49:41 PM
Selenium, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 2:49:41 PM
Thallium, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 2:49:41 PM
MERCURY, DISSOLVED		E245.1		Analyst: CU		
Mercury	< 0.00020	0.00020		mg/L	1	1/20/2004 3:30:55 PM

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

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Aerotech Environmental

Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell

Client Sample ID: OWB-3

Lab Order: 03121286

Tag Number:

Project: Florence Copper/21622.008

Collection Date: 12/29/2003 10:00:00 AM

Lab ID: 03121286-05C

Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NITRATE AND NITRITE IN WATER		E353.2				Analyst: D N
Nitrogen, Nitrate/Nitrite Total (As N)	0.46	0.050		mg/L	1	1/5/2004

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

(1) AEL - Tucson Laboratory

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Aerotech Environmental

Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell
Lab Order: 03121286
Project: Florence Copper/21622.008
Lab ID: 03121286-05D

Client Sample ID: OWB-3
Tag Number:
Collection Date: 12/29/2003 10:00:00 AM
Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PURGEABLE ORGANIC COMPOUNDS		E524.2		Analyst: SP		
Benzene	< 0.00050	0.00050		mg/L	1	12/30/2003
Ethylbenzene	< 0.00050	0.00050		mg/L	1	12/30/2003
m,p-Xylene	< 0.00050	0.00050		mg/L	1	12/30/2003
o-Xylene	< 0.00050	0.00050		mg/L	1	12/30/2003
Toluene	< 0.00050	0.00050		mg/L	1	12/30/2003
Total Xylene	< 0.0010	0.0010		mg/L	1	12/30/2003
Surr: 1,2-Dichlorobenzene-d4	108	70-130		%REC	1	12/30/2003
Surr: 4-Bromofluorobenzene	107	70-130		%REC	1	12/30/2003

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.
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Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell
Lab Order: 03121286
Project: Florence Copper/21622.008
Lab ID: 03121286-06A

Client Sample ID: BHP-4
Tag Number:
Collection Date: 12/29/2003 10:20:00 AM
Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
CATION/ANION BALANCE						
Cation/Anion Balance	2.00	0		%	1	1/16/2004
NITROGEN, NITRATE AS N (CALCULATED)						
Nitrogen, Nitrate -N	0.45	0		mg/L	1	1/6/2004
ANIONS BY ION CHROMATOGRAPHY						
Chloride	140	10	D2	mg/L	5	1/10/2004 4:13:00 AM
Fluoride	0.88	0.40		mg/L	1	1/9/2004 2:10:00 AM
Sulfate	130	10	D2	mg/L	5	1/10/2004 4:13:00 AM
ALKALINITY						
Alkalinity, Bicarbonate (As CaCO ₃)	130	2.0		mg/L CaCO ₃	1	1/2/2004
Alkalinity, Carbonate (As CaCO ₃)	< 2.0	2.0		mg/L CaCO ₃	1	1/2/2004
Alkalinity, Hydroxide (As CaCO ₃)	< 2.0	2.0		mg/L CaCO ₃	1	1/2/2004
Alkalinity, Total (As CaCO ₃)	130	6.0		mg/L CaCO ₃	1	1/2/2004
NITROGEN, NITRITE AS N						
Nitrogen, Nitrite - N	< 0.010	0.010		mg/L	1	12/30/2003 3:05:00 PM
PH						
pH	7.79	2.00		pH units	1	12/30/2003 7:30:00 AM
RESIDUE, FILTERABLE						
Total Dissolved Solids	550	10		mg/L	1	12/30/2003

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

(1) AEL - Tucson Laboratory

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Aerotech Environmental

Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell
Lab Order: 03121286
Project: Florence Copper/21622.008
Lab ID: 03121286-06B

Client Sample ID: BHP-4
Tag Number:
Collection Date: 12/29/2003 10:20:00 AM
Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS, DISSOLVED		E200.7		Analyst: PR		
Aluminum, Dissolved	< 0.10	0.10		mg/L	1	1/5/2004
Beryllium, Dissolved	< 0.0010	0.0010		mg/L	1	1/5/2004
Calcium, Dissolved	72	2.0		mg/L	1	1/5/2004
Copper, Dissolved	0.22	0.010		mg/L	1	1/5/2004
Iron, Dissolved	< 0.050	0.050		mg/L	1	1/5/2004
Magnesium, Dissolved	16	0.25		mg/L	1	1/5/2004
Potassium, Dissolved	7.6	2.0		mg/L	1	1/5/2004
Silica (Silicon dioxide-SiO ₂)	48	0.21		mg/L	1	1/5/2004
Sodium, Dissolved	94	2.0		mg/L	1	1/5/2004
Zinc, Dissolved	< 0.050	0.050		mg/L	1	1/5/2004
ICP/MS METALS, DISSOLVED		E200.8		Analyst: HK		
Antimony, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 2:54:01 PM
Arsenic, Dissolved	0.0020	0.0010		mg/L	1	1/6/2004 2:54:01 PM
Barium	0.017	0.0010		mg/L	1	1/6/2004 2:54:01 PM
Cadmium, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 2:54:01 PM
Chromium, Dissolved	0.0011	0.0010		mg/L	1	1/6/2004 2:54:01 PM
Cobalt, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 2:54:01 PM
Lead, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 2:54:01 PM
Manganese, Dissolved	0.014	0.0025		mg/L	1	1/6/2004 2:54:01 PM
Nickel, Dissolved	0.0062	0.0010		mg/L	1	1/6/2004 2:54:01 PM
Selenium, Dissolved	0.0012	0.0010		mg/L	1	1/6/2004 2:54:01 PM
Thallium, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 2:54:01 PM
MERCURY, DISSOLVED		E245.1		Analyst: CU		
Mercury	< 0.00020	0.00020		mg/L	1	1/20/2004 3:30:55 PM

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.
 (1) AEL - Tucson Laboratory
 (2) AEL - Knudsen Laboratory



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Aerotech Environmental

Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell

Client Sample ID: BHP-4

Lab Order: 03121286

Tag Number:

Project: Florence Copper/21622.008

Collection Date: 12/29/2003 10:20:00 AM

Lab ID: 03121286-06C

Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<hr/>						
NITRATE AND NITRITE IN WATER		E353.2				Analyst: D N
Nitrogen, Nitrate/Nitrite Total (As N)	0.45	0.050		mg/L	1	1/5/2004

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

(1) AEL - Tucson Laboratory

(2) AEL - Knudsen Laboratory



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Aerotech Environmental

Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell
Lab Order: 03121286
Project: Florence Copper/21622.008
Lab ID: 03121286-06D

Client Sample ID: BHP-4
Tag Number:
Collection Date: 12/29/2003 10:20:00 AM
Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PURGEABLE ORGANIC COMPOUNDS		E524.2		Analyst: SP		
Benzene	< 0.00050	0.00050		mg/L	1	12/30/2003
Ethylbenzene	< 0.00050	0.00050		mg/L	1	12/30/2003
m,p-Xylene	< 0.00050	0.00050		mg/L	1	12/30/2003
o-Xylene	< 0.00050	0.00050		mg/L	1	12/30/2003
Toluene	< 0.00050	0.00050		mg/L	1	12/30/2003
Total Xylene	< 0.0010	0.0010		mg/L	1	12/30/2003
Surr: 1,2-Dichlorobenzene-d4	104	70-130		%REC	1	12/30/2003
Surr: 4-Bromofluorobenzene	103	70-130		%REC	1	12/30/2003

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.
(1) AEL - Tucson Laboratory
(2) AEL - Knudsen Laboratory



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Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell
Lab Order: 03121286
Project: Florence Copper/21622.008
Lab ID: 03121286-07A

Client Sample ID: BHP-3
Tag Number:
Collection Date: 12/29/2003 10:45:00 AM
Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
CATION/ANION BALANCE						
Cation/Anion Balance	2.11	0		%	1	1/16/2004
NITROGEN, NITRATE AS N (CALCULATED)						
Nitrogen, Nitrate -N	0.47	0		mg/L	1	1/6/2004
ANIONS BY ION CHROMATOGRAPHY						
Chloride	140	10	D2	mg/L	5	1/10/2004 4:13:00 AM
Fluoride	0.55	0.40		mg/L	1	1/9/2004 2:26:00 AM
Sulfate	69	2.0		mg/L	1	1/9/2004 2:26:00 AM
ALKALINITY						
Alkalinity, Bicarbonate (As CaCO ₃)	150	2.0		mg/L CaCO ₃	1	1/2/2004
Alkalinity, Carbonate (As CaCO ₃)	< 2.0	2.0		mg/L CaCO ₃	1	1/2/2004
Alkalinity, Hydroxide (As CaCO ₃)	< 2.0	2.0		mg/L CaCO ₃	1	1/2/2004
Alkalinity, Total (As CaCO ₃)	150	6.0		mg/L CaCO ₃	1	1/2/2004
NITROGEN, NITRITE AS N						
Nitrogen, Nitrite - N	< 0.010	0.010		mg/L	1	12/30/2003 3:05:00 PM
PH						
pH	7.79	2.00		pH units	1	12/30/2003 7:30:00 AM
RESIDUE, FILTERABLE						
Total Dissolved Solids	470	10		mg/L	1	12/30/2003

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

(1) AEL - Tucson Laboratory

(2) AEL - Knudsen Laboratory



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Aerotech Environmental

Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell
Lab Order: 03121286
Project: Florence Copper/21622.008
Lab ID: 03121286-07B

Client Sample ID: BHP-3
Tag Number:
Collection Date: 12/29/2003 10:45:00 AM
Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS, DISSOLVED		E200.7		Analyst: PR		
Aluminum, Dissolved	< 0.10	0.10		mg/L	1	1/5/2004
Beryllium, Dissolved	< 0.0010	0.0010		mg/L	1	1/5/2004
Calcium, Dissolved	62	2.0		mg/L	1	1/5/2004
Copper, Dissolved	0.081	0.010		mg/L	1	1/5/2004
Iron, Dissolved	< 0.050	0.050		mg/L	1	1/5/2004
Magnesium, Dissolved	13	0.25		mg/L	1	1/5/2004
Potassium, Dissolved	7.1	2.0		mg/L	1	1/5/2004
Silica (Silicon dioxide-SiO ₂)	36	0.21		mg/L	1	1/5/2004
Sodium, Dissolved	89	2.0		mg/L	1	1/5/2004
Zinc, Dissolved	< 0.050	0.050		mg/L	1	1/5/2004
ICP/MS METALS, DISSOLVED		E200.8		Analyst: HK		
Antimony, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 2:58:21 PM
Arsenic, Dissolved	0.0022	0.0010		mg/L	1	1/6/2004 2:58:21 PM
Barium	0.050	0.0010		mg/L	1	1/6/2004 2:58:21 PM
Cadmium, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 2:58:21 PM
Chromium, Dissolved	0.0011	0.0010		mg/L	1	1/6/2004 2:58:21 PM
Cobalt, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 2:58:21 PM
Lead, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 2:58:21 PM
Manganese, Dissolved	0.0042	0.0025		mg/L	1	1/6/2004 2:58:21 PM
Nickel, Dissolved	0.0032	0.0010		mg/L	1	1/6/2004 2:58:21 PM
Selenium, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 2:58:21 PM
Thallium, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 2:58:21 PM
MERCURY, DISSOLVED		E245.1		Analyst: CU		
Mercury	< 0.00020	0.00020		mg/L	1	1/20/2004 3:30:55 PM

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

(1) AEL - Tucson Laboratory

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Aerotech Environmental

Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell

Client Sample ID: BHP-3

Lab Order: 03121286

Tag Number:

Project: Florence Copper/21622.008

Collection Date: 12/29/2003 10:45:00 AM

Lab ID: 03121286-07C

Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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NITRATE AND NITRITE IN WATER

E353.2

Analyst: D N

Nitrogen, Nitrate/Nitrite Total (As N)

0.47

0.050

mg/L

1

1/5/2004

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

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Aerotech Environmental

Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell
Lab Order: 03121286
Project: Florence Copper/21622.008
Lab ID: 03121286-07D

Client Sample ID: BHP-3
Tag Number:
Collection Date: 12/29/2003 10:45:00 AM
Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PURGEABLE ORGANIC COMPOUNDS		E524.2		Analyst: SP		
Benzene	< 0.00050	0.00050		mg/L	1	12/30/2003
Ethylbenzene	< 0.00050	0.00050		mg/L	1	12/30/2003
m,p-Xylene	< 0.00050	0.00050		mg/L	1	12/30/2003
o-Xylene	< 0.00050	0.00050		mg/L	1	12/30/2003
Toluene	< 0.00050	0.00050		mg/L	1	12/30/2003
Total Xylene	< 0.0010	0.0010		mg/L	1	12/30/2003
Surr: 1,2-Dichlorobenzene-d4	102	70-130		%REC	1	12/30/2003
Surr: 4-Bromofluorobenzene	101	70-130		%REC	1	12/30/2003

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.
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Aerotech Environmental

Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell
Lab Order: 03121286
Project: Florence Copper/21622.008
Lab ID: 03121286-08A

Client Sample ID: BHP-10
Tag Number:
Collection Date: 12/29/2003 11:10:00 AM
Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
CATION/ANION BALANCE		CALC				Analyst: S S
Cation/Anion Balance	4.82	0		%	1	1/16/2004
NITROGEN, NITRATE AS N (CALCULATED)		CALC				Analyst: S S
Nitrogen, Nitrate -N	0.41	0		mg/L	1	1/6/2004
ANIONS BY ION CHROMATOGRAPHY		E300				Analyst: LB
Chloride	130	10	D2	mg/L	5	1/10/2004 6:57:00 AM
Fluoride	1.0	0.40		mg/L	1	1/9/2004 4:04:00 AM
Sulfate	60	2.0		mg/L	1	1/9/2004 4:04:00 AM
ALKALINITY		M2320 B				Analyst: MT
Alkalinity, Bicarbonate (As CaCO ₃)	130	2.0		mg/L CaCO ₃	1	1/2/2004
Alkalinity, Carbonate (As CaCO ₃)	< 2.0	2.0		mg/L CaCO ₃	1	1/2/2004
Alkalinity, Hydroxide (As CaCO ₃)	< 2.0	2.0		mg/L CaCO ₃	1	1/2/2004
Alkalinity, Total (As CaCO ₃)	130	6.0		mg/L CaCO ₃	1	1/2/2004
NITROGEN, NITRITE AS N		M4500-NO2 B				Analyst: AT
Nitrogen, Nitrite - N	< 0.010	0.010		mg/L	1	12/30/2003 3:05:00 PM
PH		E150.1				Analyst: AT
pH	7.43	2.00		pH units	1	12/30/2003 7:30:00 AM
RESIDUE, FILTERABLE		M2540 C				Analyst: AC
Total Dissolved Solids	440	10		mg/L	1	12/30/2003

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

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Aerotech Environmental

Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell
Lab Order: 03121286
Project: Florence Copper/21622.008
Lab ID: 03121286-08B

Client Sample ID: BHP-10
Tag Number:
Collection Date: 12/29/2003 11:10:00 AM
Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS, DISSOLVED		E200.7		Analyst: PR		
Aluminum, Dissolved	< 0.10	0.10		mg/L	1	1/5/2004
Beryllium, Dissolved	< 0.0010	0.0010		mg/L	1	1/5/2004
Calcium, Dissolved	53	2.0		mg/L	1	1/5/2004
Copper, Dissolved	0.14	0.010		mg/L	1	1/5/2004
Iron, Dissolved	< 0.050	0.050		mg/L	1	1/5/2004
Magnesium, Dissolved	14	0.25		mg/L	1	1/5/2004
Potassium, Dissolved	6.0	2.0		mg/L	1	1/5/2004
Silica (Silicon dioxide-SiO ₂)	36	0.21		mg/L	1	1/5/2004
Sodium, Dissolved	89	2.0		mg/L	1	1/5/2004
Zinc, Dissolved	< 0.050	0.050		mg/L	1	1/5/2004
ICP/MS METALS, DISSOLVED		E200.8		Analyst: HK		
Antimony, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 3:02:40 PM
Arsenic, Dissolved	0.0038	0.0010		mg/L	1	1/6/2004 3:02:40 PM
Barium	0.011	0.0010		mg/L	1	1/6/2004 3:02:40 PM
Cadmium, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 3:02:40 PM
Chromium, Dissolved	0.0011	0.0010		mg/L	1	1/6/2004 3:02:40 PM
Cobalt, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 3:02:40 PM
Lead, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 3:02:40 PM
Manganese, Dissolved	0.0066	0.0025		mg/L	1	1/6/2004 3:02:40 PM
Nickel, Dissolved	0.0061	0.0010		mg/L	1	1/6/2004 3:02:40 PM
Selenium, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 3:02:40 PM
Thallium, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 3:02:40 PM
MERCURY, DISSOLVED		E245.1		Analyst: CU		
Mercury	< 0.00020	0.00020		mg/L	1	1/20/2004 3:30:55 PM

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

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Aerotech Environmental

Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell
Lab Order: 03121286
Project: Florence Copper/21622.008
Lab ID: 03121286-08C

Client Sample ID: BHP-10
Tag Number:
Collection Date: 12/29/2003 11:10:00 AM
Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NITRATE AND NITRITE IN WATER		E353.2				Analyst: D N
Nitrogen, Nitrate/Nitrite Total (As N)	0.41	0.050		mg/L	1	1/5/2004

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

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Aerotech Environmental

Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell
Lab Order: 03121286
Project: Florence Copper/21622.008
Lab ID: 03121286-08D

Client Sample ID: BHP-10
Tag Number:
Collection Date: 12/29/2003 11:10:00 AM
Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PURGEABLE ORGANIC COMPOUNDS		E524.2		Analyst: SP		
Benzene	< 0.00050	0.00050		mg/L	1	12/30/2003
Ethylbenzene	< 0.00050	0.00050		mg/L	1	12/30/2003
m,p-Xylene	< 0.00050	0.00050		mg/L	1	12/30/2003
o-Xylene	< 0.00050	0.00050		mg/L	1	12/30/2003
Toluene	< 0.00050	0.00050		mg/L	1	12/30/2003
Total Xylene	< 0.0010	0.0010		mg/L	1	12/30/2003
Surr: 1,2-Dichlorobenzene-d4	107	70-130		%REC	1	12/30/2003
Surr: 4-Bromofluorobenzene	105	70-130		%REC	1	12/30/2003

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.
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Aerotech Environmental

Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell
Lab Order: 03121286
Project: Florence Copper/21622.008
Lab ID: 03121286-09A

Client Sample ID: BHP-1
Tag Number:
Collection Date: 12/29/2003 11:35:00 AM
Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
CATION/ANION BALANCE		CALC				Analyst: S S
Cation/Anion Balance	2.19	0		%	1	1/16/2004
NITROGEN, NITRATE AS N (CALCULATED)		CALC				Analyst: S S
Nitrogen, Nitrate -N	0.94	0		mg/L	1	1/6/2004
ANIONS BY ION CHROMATOGRAPHY		E300				Analyst: LB
Chloride	150	10	D2	mg/L	5	1/10/2004 7:13:00 AM
Fluoride	0.91	0.40		mg/L	1	1/9/2004 4:20:00 AM
Sulfate	130	10	D2	mg/L	5	1/10/2004 7:13:00 AM
ALKALINITY		M2320 B				Analyst: MT
Alkalinity, Bicarbonate (As CaCO ₃)	64	2.0		mg/L CaCO ₃	1	1/2/2004
Alkalinity, Carbonate (As CaCO ₃)	< 2.0	2.0		mg/L CaCO ₃	1	1/2/2004
Alkalinity, Hydroxide (As CaCO ₃)	< 2.0	2.0		mg/L CaCO ₃	1	1/2/2004
Alkalinity, Total (As CaCO ₃)	64	6.0		mg/L CaCO ₃	1	1/2/2004
NITROGEN, NITRITE AS N		M4500-NO2 B				Analyst: AT
Nitrogen, Nitrite - N	< 0.010	0.010		mg/L	1	12/30/2003 3:05:00 PM
PH		E150.1				Analyst: AT
pH	6.71	2.00		pH units	1	12/30/2003 7:30:00 AM
RESIDUE, FILTERABLE		M2540 C				Analyst: AC
Total Dissolved Solids	500	10		mg/L	1	12/30/2003

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

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Aerotech Environmental

Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell
Lab Order: 03121286
Project: Florence Copper/21622.008
Lab ID: 03121286-09B

Client Sample ID: BHP-1
Tag Number:
Collection Date: 12/29/2003 11:35:00 AM
Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS, DISSOLVED		E200.7		Analyst: PR		
Aluminum, Dissolved	< 0.10	0.10		mg/L	1	1/5/2004
Beryllium, Dissolved	< 0.0010	0.0010		mg/L	1	1/5/2004
Calcium, Dissolved	64	2.0		mg/L	1	1/5/2004
Copper, Dissolved	1.4	0.010		mg/L	1	1/5/2004
Iron, Dissolved	< 0.050	0.050		mg/L	1	1/5/2004
Magnesium, Dissolved	18	0.25		mg/L	1	1/5/2004
Potassium, Dissolved	6.4	2.0		mg/L	1	1/5/2004
Silica (Silicon dioxide-SiO ₂)	45	0.21		mg/L	1	1/5/2004
Sodium, Dissolved	81	2.0		mg/L	1	1/5/2004
Zinc, Dissolved	< 0.050	0.050		mg/L	1	1/5/2004
ICP/MS METALS, DISSOLVED		E200.8		Analyst: HK		
Antimony, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 3:06:59 PM
Arsenic, Dissolved	0.0020	0.0010		mg/L	1	1/6/2004 3:06:59 PM
Barium	0.029	0.0010		mg/L	1	1/6/2004 3:06:59 PM
Cadmium, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 3:06:59 PM
Chromium, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 3:06:59 PM
Cobalt, Dissolved	0.0069	0.0010		mg/L	1	1/6/2004 3:06:59 PM
Lead, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 3:06:59 PM
Manganese, Dissolved	0.17	0.0025		mg/L	1	1/6/2004 3:06:59 PM
Nickel, Dissolved	0.025	0.0010		mg/L	1	1/6/2004 3:06:59 PM
Selenium, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 3:06:59 PM
Thallium, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 3:06:59 PM
MERCURY, DISSOLVED		E245.1		Analyst: CU		
Mercury	< 0.00020	0.00020		mg/L	1	1/30/2004 2:15:00 PM

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

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Aerotech Environmental

Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell

Client Sample ID: BHP-1

Lab Order: 03121286

Tag Number:

Project: Florence Copper/21622.008

Collection Date: 12/29/2003 11:35:00 AM

Lab ID: 03121286-09C

Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<hr/>						
NITRATE AND NITRITE IN WATER		E353.2				Analyst: D N
Nitrogen, Nitrate/Nitrite Total (As N)	0.94	0.050		mg/L	1	1/5/2004

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

(1) AEL - Tucson Laboratory

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Aerotech Environmental

Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell
Lab Order: 03121286
Project: Florence Copper/21622.008
Lab ID: 03121286-09D

Client Sample ID: BHP-1
Tag Number:
Collection Date: 12/29/2003 11:35:00 AM
Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PURGEABLE ORGANIC COMPOUNDS		E524.2		Analyst: SP		
Benzene	< 0.00050	0.00050		mg/L	1	12/31/2003
Ethylbenzene	< 0.00050	0.00050		mg/L	1	12/31/2003
m,p-Xylene	< 0.00050	0.00050		mg/L	1	12/31/2003
o-Xylene	< 0.00050	0.00050		mg/L	1	12/31/2003
Toluene	< 0.00050	0.00050		mg/L	1	12/31/2003
Total Xylene	< 0.0010	0.0010		mg/L	1	12/31/2003
Surr: 1,2-Dichlorobenzene-d4	102	70-130		%REC	1	12/31/2003
Surr: 4-Bromofluorobenzene	101	70-130		%REC	1	12/31/2003

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

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Aerotech Environmental

Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell
Lab Order: 03121286
Project: Florence Copper/21622.008
Lab ID: 03121286-10A

Client Sample ID: BHP-5
Tag Number:
Collection Date: 12/29/2003 12:00:00 PM
Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
CATION/ANION BALANCE		CALC				Analyst: S S
Cation/Anion Balance	2.08	0		%	1	1/16/2004
NITROGEN, NITRATE AS N (CALCULATED)		CALC				Analyst: S S
Nitrogen, Nitrate -N	0.49	0		mg/L	1	1/6/2004
ANIONS BY ION CHROMATOGRAPHY		E300				Analyst: LB
Chloride	140	10	D2	mg/L	5	1/10/2004 7:29:00 AM
Fluoride	1.7	0.40		mg/L	1	1/9/2004 4:37:00 AM
Sulfate	67	2.0		mg/L	1	1/9/2004 4:37:00 AM
ALKALINITY		M2320 B				Analyst: MT
Alkalinity, Bicarbonate (As CaCO ₃)	84	2.0		mg/L CaCO ₃	1	1/2/2004
Alkalinity, Carbonate (As CaCO ₃)	< 2.0	2.0		mg/L CaCO ₃	1	1/2/2004
Alkalinity, Hydroxide (As CaCO ₃)	< 2.0	2.0		mg/L CaCO ₃	1	1/2/2004
Alkalinity, Total (As CaCO ₃)	84	6.0		mg/L CaCO ₃	1	1/2/2004
NITROGEN, NITRITE AS N		M4500-NO2 B				Analyst: AT
Nitrogen, Nitrite - N	< 0.010	0.010		mg/L	1	12/30/2003 3:05:00 PM
PH		E150.1				Analyst: AT
pH	6.93	2.00		pH units	1	12/30/2003 7:30:00 AM
RESIDUE, FILTERABLE		M2540 C				Analyst: AC
Total Dissolved Solids	420	10		mg/L	1	12/30/2003

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

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Aerotech Environmental

Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell
Lab Order: 03121286
Project: Florence Copper/21622.008
Lab ID: 03121286-10B

Client Sample ID: BHP-5
Tag Number:
Collection Date: 12/29/2003 12:00:00 PM
Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS, DISSOLVED		E200.7		Analyst: PR		
Aluminum, Dissolved	< 0.10	0.10		mg/L	1	1/5/2004
Beryllium, Dissolved	< 0.0010	0.0010		mg/L	1	1/5/2004
Calcium, Dissolved	44	2.0		mg/L	1	1/5/2004
Copper, Dissolved	2.0	0.010		mg/L	1	1/5/2004
Iron, Dissolved	< 0.050	0.050		mg/L	1	1/5/2004
Magnesium, Dissolved	12	0.25		mg/L	1	1/5/2004
Potassium, Dissolved	6.2	2.0		mg/L	1	1/5/2004
Silica (Silicon dioxide-SiO ₂)	49	0.21		mg/L	1	1/5/2004
Sodium, Dissolved	85	2.0		mg/L	1	1/5/2004
Zinc, Dissolved	< 0.050	0.050		mg/L	1	1/5/2004
ICP/MS METALS, DISSOLVED		E200.8		Analyst: HK		
Antimony, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 3:24:09 PM
Arsenic, Dissolved	0.0046	0.0010		mg/L	1	1/6/2004 3:24:09 PM
Barium	0.0081	0.0010		mg/L	1	1/6/2004 3:24:09 PM
Cadmium, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 3:24:09 PM
Chromium, Dissolved	0.0012	0.0010		mg/L	1	1/6/2004 3:24:09 PM
Cobalt, Dissolved	0.012	0.0010		mg/L	1	1/6/2004 3:24:09 PM
Lead, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 3:24:09 PM
Manganese, Dissolved	0.18	0.0025		mg/L	1	1/6/2004 3:24:09 PM
Nickel, Dissolved	0.016	0.0010		mg/L	1	1/6/2004 3:24:09 PM
Selenium, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 3:24:09 PM
Thallium, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 3:24:09 PM
MERCURY, DISSOLVED		E245.1		Analyst: CU		
Mercury	< 0.00020	0.00020		mg/L	1	1/20/2004 3:30:55 PM

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

(1) AEL - Tucson Laboratory

(2) AEL - Knudsen Laboratory



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Aerotech Environmental

Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell
Lab Order: 03121286
Project: Florence Copper/21622.008
Lab ID: 03121286-10C

Client Sample ID: BHP-5
Tag Number:
Collection Date: 12/29/2003 12:00:00 PM
Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NITRATE AND NITRITE IN WATER		E353.2				Analyst: D N
Nitrogen, Nitrate/Nitrite Total (As N)	0.49	0.050		mg/L	1	1/5/2004

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.
(1) AEL - Tucson Laboratory
(2) AEL - Knudsen Laboratory



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Aerotech Environmental

Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell
Lab Order: 03121286
Project: Florence Copper/21622.008
Lab ID: 03121286-10D

Client Sample ID: BHP-5
Tag Number:
Collection Date: 12/29/2003 12:00:00 PM
Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PURGEABLE ORGANIC COMPOUNDS		E524.2		Analyst: SP		
Benzene	< 0.00050	0.00050		mg/L	1	12/31/2003
Ethylbenzene	< 0.00050	0.00050		mg/L	1	12/31/2003
m,p-Xylene	< 0.00050	0.00050		mg/L	1	12/31/2003
o-Xylene	< 0.00050	0.00050		mg/L	1	12/31/2003
Toluene	< 0.00050	0.00050		mg/L	1	12/31/2003
Total Xylene	< 0.0010	0.0010		mg/L	1	12/31/2003
Surr: 1,2-Dichlorobenzene-d4	106	70-130		%REC	1	12/31/2003
Surr: 4-Bromofluorobenzene	104	70-130		%REC	1	12/31/2003

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.
(1) AEL - Tucson Laboratory
(2) AEL - Knudsen Laboratory



Aerotech Environmental Laboratories

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Aerotech Environmental

Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell
Lab Order: 03121286
Project: Florence Copper/21622.008
Lab ID: 03121286-11A

Client Sample ID: OWB-6
Tag Number:
Collection Date: 12/29/2003 12:15:00 PM
Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
CATION/ANION BALANCE		CALC				Analyst: SS
Cation/Anion Balance	-0.44	0		%	1	1/16/2004
NITROGEN, NITRATE AS N (CALCULATED)		CALC				Analyst: SS
Nitrogen, Nitrate -N	0.45	0		mg/L	1	1/6/2004
ANIONS BY ION CHROMATOGRAPHY		E300				Analyst: LB
Chloride	140	10	D2	mg/L	5	1/10/2004 7:46:00 AM
Fluoride	1.6	0.40		mg/L	1	1/9/2004 4:53:00 AM
Sulfate	69	2.0		mg/L	1	1/9/2004 4:53:00 AM
ALKALINITY		M2320 B				Analyst: MT
Alkalinity, Bicarbonate (As CaCO ₃)	82	2.0		mg/L CaCO ₃	1	1/2/2004
Alkalinity, Carbonate (As CaCO ₃)	< 2.0	2.0		mg/L CaCO ₃	1	1/2/2004
Alkalinity, Hydroxide (As CaCO ₃)	< 2.0	2.0		mg/L CaCO ₃	1	1/2/2004
Alkalinity, Total (As CaCO ₃)	82	6.0		mg/L CaCO ₃	1	1/2/2004
NITROGEN, NITRITE AS N		M4500-NO2 B				Analyst: AT
Nitrogen, Nitrite - N	< 0.010	0.010		mg/L	1	12/30/2003 3:05:00 PM
PH		E150.1				Analyst: AT
pH	7.04	2.00		pH units	1	12/30/2003 7:30:00 AM
RESIDUE, FILTERABLE		M2540 C				Analyst: HS
Total Dissolved Solids	470	10		mg/L	1	12/31/2003

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

(1) AEL - Tucson Laboratory

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Aerotech Environmental

Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell
Lab Order: 03121286
Project: Florence Copper/21622.008
Lab ID: 03121286-11B

Client Sample ID: OWB-6
Tag Number:
Collection Date: 12/29/2003 12:15:00 PM
Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS, DISSOLVED		E200.7		Analyst: PR		
Aluminum, Dissolved	< 0.10	0.10		mg/L	1	1/5/2004
Beryllium, Dissolved	< 0.0010	0.0010		mg/L	1	1/5/2004
Calcium, Dissolved	44	2.0		mg/L	1	1/5/2004
Copper, Dissolved	2.0	0.010		mg/L	1	1/5/2004
Iron, Dissolved	< 0.050	0.050		mg/L	1	1/5/2004
Magnesium, Dissolved	13	0.25		mg/L	1	1/5/2004
Potassium, Dissolved	6.2	2.0		mg/L	1	1/5/2004
Silica (Silicon dioxide-SiO ₂)	50	0.21		mg/L	1	1/5/2004
Sodium, Dissolved	75	10	D2	mg/L	5	1/5/2004
Zinc, Dissolved	< 0.050	0.050		mg/L	1	1/5/2004
ICP/MS METALS, DISSOLVED		E200.8		Analyst: HK		
Antimony, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 3:28:28 PM
Arsenic, Dissolved	0.0044	0.0010		mg/L	1	1/6/2004 3:28:28 PM
Barium	0.0058	0.0010		mg/L	1	1/6/2004 3:28:28 PM
Cadmium, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 3:28:28 PM
Chromium, Dissolved	0.0011	0.0010		mg/L	1	1/6/2004 3:28:28 PM
Cobalt, Dissolved	0.011	0.0010		mg/L	1	1/6/2004 3:28:28 PM
Lead, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 3:28:28 PM
Manganese, Dissolved	0.17	0.0025		mg/L	1	1/6/2004 3:28:28 PM
Nickel, Dissolved	0.016	0.0010		mg/L	1	1/6/2004 3:28:28 PM
Selenium, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 3:28:28 PM
Thallium, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 3:28:28 PM
MERCURY, DISSOLVED		E245.1		Analyst: CU		
Mercury	< 0.00020	0.00020		mg/L	1	1/20/2004 3:30:55 PM

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

(1) AEL - Tucson Laboratory

(2) AEL - Knudsen Laboratory



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Aerotech Environmental

Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell
Lab Order: 03121286
Project: Florence Copper/21622.008
Lab ID: 03121286-11C

Client Sample ID: OWB-6
Tag Number:
Collection Date: 12/29/2003 12:15:00 PM
Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NITRATE AND NITRITE IN WATER		E353.2				Analyst: D N
Nitrogen, Nitrate/Nitrite Total (As N)	0.45	0.050		mg/L	1	1/5/2004

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.
(1) AEL - Tucson Laboratory
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Aerotech Environmental

Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell
Lab Order: 03121286
Project: Florence Copper/21622.008
Lab ID: 03121286-11D

Client Sample ID: OWB-6
Tag Number:
Collection Date: 12/29/2003 12:15:00 PM
Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PURGEABLE ORGANIC COMPOUNDS		E524.2		Analyst: SP		
Benzene	< 0.00050	0.00050		mg/L	1	12/31/2003
Ethylbenzene	< 0.00050	0.00050		mg/L	1	12/31/2003
m,p-Xylene	< 0.00050	0.00050		mg/L	1	12/31/2003
o-Xylene	< 0.00050	0.00050		mg/L	1	12/31/2003
Toluene	< 0.00050	0.00050		mg/L	1	12/31/2003
Total Xylene	< 0.0010	0.0010		mg/L	1	12/31/2003
Surr: 1,2-Dichlorobenzene-d4	102	70-130		%REC	1	12/31/2003
Surr: 4-Bromofluorobenzene	101	70-130		%REC	1	12/31/2003

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

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Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell
Lab Order: 03121286
Project: Florence Copper/21622.008
Lab ID: 03121286-12A

Client Sample ID: BHP-13
Tag Number:
Collection Date: 12/29/2003 12:35:00 PM
Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
CATION/ANION BALANCE		CALC				Analyst: SS
Cation/Anion Balance	4.04	0		%	1	1/16/2004
NITROGEN, NITRATE AS N (CALCULATED)		CALC				Analyst: SS
Nitrogen, Nitrate -N	0.48	0		mg/L	1	1/6/2004
ANIONS BY ION CHROMATOGRAPHY		E300				Analyst: LB
Chloride	140	10	D2	mg/L	5	1/10/2004 8:02:00 AM
Fluoride	< 0.40	0.40		mg/L	1	1/9/2004 5:10:00 AM
Sulfate	57	2.0		mg/L	1	1/9/2004 5:10:00 AM
ALKALINITY		M2320 B				Analyst: MT
Alkalinity, Bicarbonate (As CaCO ₃)	150	2.0		mg/L CaCO ₃	1	1/2/2004
Alkalinity, Carbonate (As CaCO ₃)	< 2.0	2.0		mg/L CaCO ₃	1	1/2/2004
Alkalinity, Hydroxide (As CaCO ₃)	< 2.0	2.0		mg/L CaCO ₃	1	1/2/2004
Alkalinity, Total (As CaCO ₃)	150	6.0		mg/L CaCO ₃	1	1/2/2004
NITROGEN, NITRITE AS N		M4500-NO2 B				Analyst: AT
Nitrogen, Nitrite - N	< 0.010	0.010		mg/L	1	12/30/2003 3:05:00 PM
PH		E150.1				Analyst: AT
pH	8.06	2.00		pH units	1	12/30/2003 7:30:00 AM
RESIDUE, FILTERABLE		M2540 C				Analyst: HS
Total Dissolved Solids	480	10		mg/L	1	12/31/2003

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.
 (1) AEL - Tucson Laboratory
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Aerotech Environmental

Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell
Lab Order: 03121286
Project: Florence Copper/21622.008
Lab ID: 03121286-12B

Client Sample ID: BHP-13
Tag Number:
Collection Date: 12/29/2003 12:35:00 PM
Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS, DISSOLVED		E200.7		Analyst: PR		
Aluminum, Dissolved	< 0.10	0.10		mg/L	1	1/5/2004
Beryllium, Dissolved	< 0.0010	0.0010		mg/L	1	1/5/2004
Calcium, Dissolved	62	2.0		mg/L	1	1/5/2004
Copper, Dissolved	0.017	0.010		mg/L	1	1/5/2004
Iron, Dissolved	< 0.050	0.050		mg/L	1	1/5/2004
Magnesium, Dissolved	13	0.25		mg/L	1	1/5/2004
Potassium, Dissolved	6.3	2.0		mg/L	1	1/5/2004
Silica (Silicon dioxide-SiO ₂)	37	0.21		mg/L	1	1/5/2004
Sodium, Dissolved	90	2.0		mg/L	1	1/5/2004
Zinc, Dissolved	< 0.050	0.050		mg/L	1	1/5/2004
ICP/MS METALS, DISSOLVED		E200.8		Analyst: HK		
Antimony, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 3:41:23 PM
Arsenic, Dissolved	0.0019	0.0010		mg/L	1	1/6/2004 3:41:23 PM
Barium	0.025	0.0010		mg/L	1	1/6/2004 3:41:23 PM
Cadmium, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 3:41:23 PM
Chromium, Dissolved	0.0014	0.0010		mg/L	1	1/6/2004 3:41:23 PM
Cobalt, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 3:41:23 PM
Lead, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 3:41:23 PM
Manganese, Dissolved	< 0.0025	0.0025		mg/L	1	1/6/2004 3:41:23 PM
Nickel, Dissolved	0.0027	0.0010		mg/L	1	1/6/2004 3:41:23 PM
Selenium, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 3:41:23 PM
Thallium, Dissolved	< 0.0010	0.0010		mg/L	1	1/6/2004 3:41:23 PM
MERCURY, DISSOLVED		E245.1		Analyst: CU		
Mercury	< 0.00020	0.00020		mg/L	1	1/20/2004 3:30:55 PM

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

(1) AEL - Tucson Laboratory

(2) AEL - Knudsen Laboratory



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Aerotech Environmental

Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell

Client Sample ID: BHP-13

Lab Order: 03121286

Tag Number:

Project: Florence Copper/21622.008

Collection Date: 12/29/2003 12:35:00 PM

Lab ID: 03121286-12C

Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NITRATE AND NITRITE IN WATER						Analyst: D N
Nitrogen, Nitrate/Nitrite Total (As N)	0.48	0.050		mg/L	1	1/5/2004

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

(1) AEL - Tucson Laboratory

(2) AEL - Knudsen Laboratory



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Aerotech Environmental

Analytical Report

Date: 17-Mar-04

CLIENT: Brown & Caldwell
Lab Order: 03121286
Project: Florence Copper/21622.008
Lab ID: 03121286-12D

Client Sample ID: BHP-13
Tag Number:
Collection Date: 12/29/2003 12:35:00 PM
Matrix: DRINKING WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PURGEABLE ORGANIC COMPOUNDS		E524.2		Analyst: SP		
Benzene	< 0.00050	0.00050		mg/L	1	12/31/2003
Ethylbenzene	< 0.00050	0.00050		mg/L	1	12/31/2003
m,p-Xylene	< 0.00050	0.00050		mg/L	1	12/31/2003
o-Xylene	< 0.00050	0.00050		mg/L	1	12/31/2003
Toluene	< 0.00050	0.00050		mg/L	1	12/31/2003
Total Xylene	< 0.0010	0.0010		mg/L	1	12/31/2003
Surr: 1,2-Dichlorobenzene-d4	102	70-130		%REC	1	12/31/2003
Surr: 4-Bromofluorobenzene	100	70-130		%REC	1	12/31/2003

Footnotes: All analysis performed at AEL Phoenix laboratory unless indicated by footnotes.

(1) AEL - Tucson Laboratory

(2) AEL - Knudsen Laboratory



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Aerotech Environmental

Date: 17-Mar-04

CLIENT: Brown & Caldwell
Work Order: 03121286
Project: Florence Copper/21622.008

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7_DISS

Sample ID	MB-15982	SampType:	MBLK	TestCode:	200.7_DISS	Units:	mg/L	Prep Date:	1/2/2004	RunNo:	42623		
Client ID:		Batch ID:	15982	TestNo:	E200.7			Analysis Date:	1/5/2004	SeqNo:	503680		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum, Dissolved	< 0.10	0.10									
Beryllium, Dissolved	< 0.0010	0.0010									
Calcium, Dissolved	< 2.0	2.0									
Copper, Dissolved	< 0.010	0.010									
Iron, Dissolved	< 0.050	0.050									
Magnesium, Dissolved	< 0.25	0.25									
Potassium, Dissolved	< 2.0	2.0									
Silica (Silicon dioxide-SiO2)	< 0.21	0.21									
Sodium, Dissolved	< 2.0	2.0									
Zinc, Dissolved	< 0.050	0.050									

Sample ID	MB-15988	SampType:	MBLK	TestCode:	200.7_DISS	Units:	mg/L	Prep Date:	1/3/2004	RunNo:	42623			
Client ID:		Batch ID:	15988	TestNo:	E200.7			Analysis Date:	1/5/2004	SeqNo:	503682			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum, Dissolved	< 0.10	0.10									
Beryllium, Dissolved	< 0.0010	0.0010									
Calcium, Dissolved	< 2.0	2.0									
Copper, Dissolved	< 0.010	0.010									
Iron, Dissolved	< 0.050	0.050									
Magnesium, Dissolved	< 0.25	0.25									
Potassium, Dissolved	< 2.0	2.0									
Silica (Silicon dioxide-SiO2)	< 0.21	0.21									
Sodium, Dissolved	< 2.0	2.0									
Zinc, Dissolved	< 0.050	0.050									

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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CLIENT: Brown & Caldwell
Work Order: 03121286
Project: Florence Copper/21622.008

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7_DISS

Sample ID	LCS-15982	SampType: LCS	TestCode: 200.7_DISS	Units: mg/L	Prep Date: 1/2/2004	RunNo: 42623					
Client ID:	Batch ID: 15982	TestNo: E200.7	Analysis Date: 1/5/2004	SeqNo: 503670							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum, Dissolved	1.010	0.10	1	0	101	85	115				
Beryllium, Dissolved	0.4890	0.0010	0.5	0	97.8	85	115				
Calcium, Dissolved	10.70	2.0	10.5	0	102	85	115				
Copper, Dissolved	0.4860	0.010	0.5	0	97.2	85	115				
Iron, Dissolved	0.4720	0.050	0.5	0	94.4	85	115				
Magnesium, Dissolved	10.70	0.25	10.5	0	102	85	115				
Potassium, Dissolved	10.80	2.0	10	0	108	85	115				
Silica (Silicon dioxide-SiO ₂)	5.348	0.21	5.348	0	100	85	115				
Sodium, Dissolved	10.50	2.0	10	0	105	85	115				
Zinc, Dissolved	0.4970	0.050	0.5	0	99.4	85	115				

Sample ID	LCS-15988	SampType:	LCS	TestCode:	200.7_DISS	Units:	mg/L	Prep Date:	1/3/2004	RunNo:	42623			
Client ID:		Batch ID:	15988	TestNo:	E200.7			Analysis Date:	1/5/2004	SeqNo:	503672			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum, Dissolved	1.030	0.10	1	0	103	85	115				
Beryllium, Dissolved	0.4920	0.0010	0.5	0	98.4	85	115				
Calcium, Dissolved	10.90	2.0	10.5	0	104	85	115				
Copper, Dissolved	0.4980	0.010	0.5	0	99.6	85	115				
Iron, Dissolved	0.4760	0.050	0.5	0	95.2	85	115				
Magnesium, Dissolved	10.90	0.25	10.5	0	104	85	115				
Potassium, Dissolved	11.20	2.0	10	0	112	85	115				
Silica (Silicon dioxide-SiO ₂)	5.519	0.21	5.348	0	103	85	115				
Sodium, Dissolved	10.70	2.0	10	0	107	85	115				
Zinc, Dissolved	0.5000	0.050	0.5	0	100	85	115				

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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CLIENT: Brown & Caldwell
Work Order: 03121286
Project: Florence Copper/21622.008

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7_DISS

Sample ID	LCSD-15982	SampType: LCSD	TestCode: 200.7_DISS	Units: mg/L	Prep Date: 1/2/2004	RunNo: 42623					
Client ID:		Batch ID: 15982	TestNo: E200.7		Analysis Date: 1/5/2004	SeqNo: 503675					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum, Dissolved	0.9990	0.10	1	0	99.9	85	115	1.010	1.10	20	
Beryllium, Dissolved	0.4860	0.0010	0.5	0	97.2	85	115	0.4890	0.615	20	
Calcium, Dissolved	10.70	2.0	10.5	0	102	85	115	10.70	0	20	
Copper, Dissolved	0.4820	0.010	0.5	0	96.4	85	115	0.4860	0.826	20	
Iron, Dissolved	0.4660	0.050	0.5	0	93.2	85	115	0.4720	1.28	20	
Magnesium, Dissolved	10.50	0.25	10.5	0	100	85	115	10.70	1.89	20	
Potassium, Dissolved	10.70	2.0	10	0	107	85	115	10.80	0.930	20	
Silica (Silicon dioxide-SiO2)	5.283	0.21	5.348	0	98.8	85	115	5.348	1.21	20	
Sodium, Dissolved	10.30	2.0	10	0	103	85	115	10.50	1.92	20	
Zinc, Dissolved	0.4920	0.050	0.5	0	98.4	85	115	0.4970	1.01	20	

Sample ID	LCSD-15988	SampType: LCSD	TestCode: 200.7_DISS	Units: mg/L	Prep Date: 1/3/2004	RunNo: 42623					
Client ID:		Batch ID: 15988	TestNo: E200.7		Analysis Date: 1/5/2004	SeqNo: 503677					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum, Dissolved	1.000	0.10	1	0	100	85	115	1.030	2.96	20	
Beryllium, Dissolved	0.4870	0.0010	0.5	0	97.4	85	115	0.4920	1.02	20	
Calcium, Dissolved	10.80	2.0	10.5	0	103	85	115	10.90	0.922	20	
Copper, Dissolved	0.4920	0.010	0.5	0	98.4	85	115	0.4980	1.21	20	
Iron, Dissolved	0.4700	0.050	0.5	0	94.0	85	115	0.4760	1.27	20	
Magnesium, Dissolved	10.80	0.25	10.5	0	103	85	115	10.90	0.922	20	
Potassium, Dissolved	11.00	2.0	10	0	110	85	115	11.20	1.80	20	
Silica (Silicon dioxide-SiO2)	5.433	0.21	5.348	0	102	85	115	5.519	1.56	20	
Sodium, Dissolved	10.40	2.0	10	0	104	85	115	10.70	2.84	20	
Zinc, Dissolved	0.4940	0.050	0.5	0	98.8	85	115	0.5000	1.21	20	

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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CLIENT: Brown & Caldwell
Work Order: 03121286
Project: Florence Copper/21622.008

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7_DISS

Sample ID	03121286-01B MS	SampType:	MS	TestCode:	200.7_DISS	Units:	mg/L	Prep Date:	1/2/2004	RunNo:	42623
Client ID:	BHP-9	Batch ID:	15982	TestNo:	E200.7			Analysis Date:	1/5/2004	SeqNo:	503614
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum, Dissolved	2.160	0.10	1	1.080	108	70	130				
Beryllium, Dissolved	0.4950	0.0010	0.5	0.001060	98.8	70	130				
Calcium, Dissolved	54.60	2.0	10.5	45.80	83.8	70	130				
Copper, Dissolved	8.910	0.010	0.5	8.890	4.00	70	130				M7
Iron, Dissolved	0.4740	0.050	0.5	0	94.8	70	130				
Magnesium, Dissolved	22.00	2.0	10.5	11.60	99.0	70	130				
Potassium, Dissolved	20.50	2.0	10	5.740	148	70	130				M6
Silica (Silicon dioxide-SiO ₂)	88.98	0.21	5.348	84.50	83.8	70	130				
Sodium, Dissolved	91.10	2.0	10	78.40	127	70	130				
Zinc, Dissolved	0.5770	0.050	0.5	0.07260	101	70	130				

Sample ID	03121286-11B MS	SampType:	MS	TestCode:	200.7_DISS	Units:	mg/L	Prep Date:	1/3/2004	RunNo:	42623
Client ID:	OWB-6	Batch ID:	15988	TestNo:	E200.7			Analysis Date:	1/5/2004	SeqNo:	503629
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum, Dissolved	1.170	0.10	1	0	117	70	130				
Beryllium, Dissolved	0.4970	0.0010	0.5	0	99.4	70	130				
Calcium, Dissolved	56.30	2.0	10.5	44.50	112	70	130				
Copper, Dissolved	2.480	0.010	0.5	1.980	100	70	130				
Iron, Dissolved	0.4850	0.050	0.5	0	97.0	70	130				
Magnesium, Dissolved	23.60	2.0	10.5	12.60	105	70	130				
Potassium, Dissolved	21.90	2.0	10	6.210	157	70	130				M6
Silica (Silicon dioxide-SiO ₂)	55.40	0.21	5.348	49.60	108	70	130				
Zinc, Dissolved	0.5270	0.050	0.5	0	105	70	130				

Sample ID	03121286-11B MS	SampType:	MS	TestCode:	200.7_DISS	Units:	mg/L	Prep Date:	1/3/2004	RunNo:	42623
Client ID:	OWB-6	Batch ID:	15988	TestNo:	E200.7			Analysis Date:	1/5/2004	SeqNo:	503630
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits



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CLIENT: Brown & Caldwell
Work Order: 03121286
Project: Florence Copper/21622.008

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7_DISS

Sample ID	03121286-11B MS	SampType: MS	TestCode: 200.7_DISS	Units: mg/L	Prep Date: 1/3/2004	RunNo: 42623					
Client ID:	OWB-6	Batch ID: 15988	TestNo: E200.7		Analysis Date: 1/5/2004	SeqNo: 503630					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sodium, Dissolved

87.00

10

10

75.00

120

70

130

Sample ID	03121234-09B MS	SampType: MS	TestCode: 200.7_DISS	Units: mg/L	Prep Date: 1/3/2004	RunNo: 42623					
Client ID:		Batch ID: 15988	TestNo: E200.7		Analysis Date: 1/6/2004	SeqNo: 503685					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum, Dissolved

1.110

0.10

1

0

111

70

130

Beryllium, Dissolved

0.4980

0.0010

0.5

0

99.6

70

130

Calcium, Dissolved

72.10

2.0

10.5

62.30

93.3

70

130

Copper, Dissolved

1.450

0.010

0.5

0.9870

92.6

70

130

Iron, Dissolved

0.4770

0.050

0.5

0

95.4

70

130

Magnesium, Dissolved

26.70

0.25

10.5

16.40

98.1

70

130

Potassium, Dissolved

20.80

2.0

10

6.080

147

70

130

M6

Silica (Silicon dioxide-SiO2)

66.95

0.21

5.348

62.90

75.7

70

130

Sodium, Dissolved

86.40

2.0

10

73.90

125

70

130

Zinc, Dissolved

0.5460

0.050

0.5

0

109

70

130

Sample ID	03121286-01B MSD	SampType: MSD	TestCode: 200.7_DISS	Units: mg/L	Prep Date: 1/2/2004	RunNo: 42623					
Client ID:	BHP-9	Batch ID: 15982	TestNo: E200.7		Analysis Date: 1/5/2004	SeqNo: 503616					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum, Dissolved

2.140

0.10

1

1.080

106

70

130

2.160

0.930

20

Beryllium, Dissolved

0.4920

0.0010

0.5

0.001060

98.2

70

130

0.4950

0.608

20

Calcium, Dissolved

54.70

2.0

10.5

45.80

84.8

70

130

54.60

0.183

20

Copper, Dissolved

8.850

0.010

0.5

8.890

-8.00

70

130

8.910

0.676

20

M7

Iron, Dissolved

0.4710

0.050

0.5

0

94.2

70

130

0.4740

0.635

20

Magnesium, Dissolved

22.00

2.0

10.5

11.60

99.0

70

130

22.00

0

20

Potassium, Dissolved

20.60

2.0

10

5.740

149

70

130

20.50

0.487

20

M6

Silica (Silicon dioxide-SiO2)

89.20

0.21

5.348

84.50

87.9

70

130

88.98

0.247

20

Qualifiers: E Value above quantitation range
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

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CLIENT: Brown & Caldwell
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Project: Florence Copper/21622.008

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7_DISS

Sample ID	03121286-01B MSD	SampType:	MSD	TestCode:	200.7_DISS	Units:	mg/L	Prep Date:	1/2/2004	RunNo:	42623
Client ID:	BHP-9	Batch ID:	15982	TestNo:	E200.7			Analysis Date:	1/5/2004	SeqNo:	503616
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium, Dissolved	90.90	2.0	10	78.40	125	70	130	91.10	0.220	20	
Zinc, Dissolved	0.5720	0.050	0.5	0.07260	99.9	70	130	0.5770	0.870	20	

Sample ID	03121286-11B MSD	SampType:	MSD	TestCode:	200.7_DISS	Units:	mg/L	Prep Date:	1/3/2004	RunNo:	42623
Client ID:	OWB-6	Batch ID:	15988	TestNo:	E200.7			Analysis Date:	1/5/2004	SeqNo:	503631
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum, Dissolved	1.130	0.10	1	0	113	70	130	1.170	3.48	20	
Beryllium, Dissolved	0.4920	0.0010	0.5	0	98.4	70	130	0.4970	1.01	20	
Calcium, Dissolved	54.30	2.0	10.5	44.50	93.3	70	130	56.30	3.62	20	
Copper, Dissolved	2.440	0.010	0.5	1.980	92.0	70	130	2.480	1.63	20	
Iron, Dissolved	0.4750	0.050	0.5	0	95.0	70	130	0.4850	2.08	20	
Magnesium, Dissolved	23.20	2.0	10.5	12.60	101	70	130	23.60	1.71	20	
Potassium, Dissolved	21.50	2.0	10	6.210	153	70	130	21.90	1.84	20	M6
Silica (Silicon dioxide-SiO2)	54.30	0.21	5.348	49.60	87.9	70	130	55.40	2.01	20	
Zinc, Dissolved	0.5160	0.050	0.5	0	103	70	130	0.5270	2.11	20	

Sample ID	03121286-11B MSD	SampType:	MSD	TestCode:	200.7_DISS	Units:	mg/L	Prep Date:	1/3/2004	RunNo:	42623
Client ID:	OWB-6	Batch ID:	15988	TestNo:	E200.7			Analysis Date:	1/5/2004	SeqNo:	503632
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium, Dissolved	87.00	10	10	75.00	120	70	130	87.00	0	20	

Sample ID	03121234-09B MSD	SampType:	MSD	TestCode:	200.7_DISS	Units:	mg/L	Prep Date:	1/3/2004	RunNo:	42623
Client ID:		Batch ID:	15988	TestNo:	E200.7			Analysis Date:	1/6/2004	SeqNo:	503687
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum, Dissolved	1.090	0.10	1	0	109	70	130	1.110	1.82	20	

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits



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CLIENT: Brown & Caldwell
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ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7_DISS

Sample ID 03121234-09B MSD	SampType: MSD	TestCode: 200.7_DISS	Units: mg/L	Prep Date: 1/3/2004	RunNo: 42623						
Client ID:	Batch ID: 15988	TestNo: E200.7		Analysis Date: 1/6/2004	SeqNo: 503687						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Beryllium, Dissolved	0.4950	0.0010	0.5	0	99.0	70	130	0.4980	0.604	20	
Calcium, Dissolved	73.10	2.0	10.5	62.30	103	70	130	72.10	1.38	20	
Copper, Dissolved	1.460	0.010	0.5	0.9870	94.6	70	130	1.450	0.687	20	
Iron, Dissolved	0.4750	0.050	0.5	0	95.0	70	130	0.4770	0.420	20	
Magnesium, Dissolved	26.80	0.25	10.5	16.40	99.0	70	130	26.70	0.374	20	
Potassium, Dissolved	20.90	2.0	10	6.080	148	70	130	20.80	0.480	20	M6
Silica (Silicon dioxide-SiO2)	67.59	0.21	5.348	62.90	87.7	70	130	66.95	0.951	20	
Sodium, Dissolved	87.00	2.0	10	73.90	131	70	130	86.40	0.692	20	M6
Zinc, Dissolved	0.5410	0.050	0.5	0	108	70	130	0.5460	0.920	20	

Qualifiers: E Value above quantitation range
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

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ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_DISS

Sample ID	MB-16001	SampType:	MBLK	TestCode:	200.8_DISS	Units:	mg/L	Prep Date:	1/6/2004	RunNo:	42645		
Client ID:		Batch ID:	16001	TestNo:	E200.8			Analysis Date:	1/6/2004	SeqNo:	504057		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony, Dissolved	< 0.0010	0.0010
Arsenic, Dissolved	< 0.0010	0.0010
Barium	< 0.0010	0.0010
Cadmium, Dissolved	< 0.0010	0.0010
Chromium, Dissolved	< 0.0010	0.0010
Cobalt, Dissolved	< 0.0010	0.0010
Lead, Dissolved	< 0.0010	0.0010
Manganese, Dissolved	< 0.0025	0.0025
Nickel, Dissolved	< 0.0010	0.0010
Selenium, Dissolved	< 0.0010	0.0010
Thallium, Dissolved	< 0.0010	0.0010

Sample ID	LCS-16001	SampType:	LCS	TestCode:	200.8_DISS	Units:	mg/L	Prep Date:	1/6/2004	RunNo:	42645			
Client ID:		Batch ID:	16001	TestNo:	E200.8			Analysis Date:	1/6/2004	SeqNo:	504054			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony, Dissolved	0.05173	0.0010	0.05	0	103	85	115
Arsenic, Dissolved	0.04817	0.0010	0.05	0	96.3	85	115
Barium	0.05268	0.0010	0.05	0	105	85	115
Cadmium, Dissolved	0.05134	0.0010	0.05	0	103	85	115
Chromium, Dissolved	0.05187	0.0010	0.05	0	104	85	115
Cobalt, Dissolved	0.05225	0.0010	0.05	0	104	85	115
Lead, Dissolved	0.05141	0.0010	0.05	0	103	85	115
Manganese, Dissolved	0.05239	0.0025	0.05	0	105	85	115
Nickel, Dissolved	0.05309	0.0010	0.05	0	106	85	115
Selenium, Dissolved	0.05140	0.0010	0.05	0	103	85	115
Thallium, Dissolved	0.05087	0.0010	0.05	0	102	85	115

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits



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Project: Florence Copper/21622.008

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_DISS

Sample ID	LCSD-16001	SampType: LCSD	TestCode: 200.8_DISS	Units: mg/L	Prep Date: 1/6/2004	RunNo: 42645					
Client ID:		Batch ID: 16001	TestNo: E200.8		Analysis Date: 1/6/2004	SeqNo: 504055					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony, Dissolved	0.05323	0.0010	0.05	0	106	85	115	0.05173	2.86	20	
Arsenic, Dissolved	0.04974	0.0010	0.05	0	99.5	85	115	0.04817	3.21	20	
Barium	0.05096	0.0010	0.05	0	102	85	115	0.05268	3.32	20	
Cadmium, Dissolved	0.05262	0.0010	0.05	0	105	85	115	0.05134	2.46	20	
Chromium, Dissolved	0.05299	0.0010	0.05	0	106	85	115	0.05187	2.14	20	
Cobalt, Dissolved	0.05298	0.0010	0.05	0	106	85	115	0.05225	1.39	20	
Lead, Dissolved	0.05227	0.0010	0.05	0	105	85	115	0.05141	1.66	20	
Manganese, Dissolved	0.05338	0.0025	0.05	0	107	85	115	0.05239	1.87	20	
Nickel, Dissolved	0.05382	0.0010	0.05	0	108	85	115	0.05309	1.37	20	
Selenium, Dissolved	0.05268	0.0010	0.05	0	105	85	115	0.05140	2.46	20	
Thallium, Dissolved	0.05155	0.0010	0.05	0	103	85	115	0.05087	1.33	20	

Sample ID	03121286-01B MS	SampType: MS	TestCode: 200.8_DISS	Units: mg/L	Prep Date: 1/6/2004	RunNo: 42645					
Client ID:	BHP-9	Batch ID: 16001	TestNo: E200.8		Analysis Date: 1/6/2004	SeqNo: 504020					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony, Dissolved	0.04878	0.0010	0.05	0	97.6	70	130				
Arsenic, Dissolved	0.05834	0.0010	0.05	0.005970	105	70	130				
Barium	0.06027	0.0010	0.05	0.01383	92.9	70	130				
Cadmium, Dissolved	0.04764	0.0010	0.05	0	95.3	70	130				
Chromium, Dissolved	0.04805	0.0010	0.05	0	96.1	70	130				
Cobalt, Dissolved	0.07906	0.0010	0.05	0.03173	94.7	70	130				
Lead, Dissolved	0.05836	0.0010	0.05	0.003790	109	70	130				
Manganese, Dissolved	0.5051	0.0025	0.05	0.4720	66.4	70	130				M7
Nickel, Dissolved	0.08824	0.0010	0.05	0.04068	95.1	70	130				
Selenium, Dissolved	0.05058	0.0010	0.05	0.001070	99.0	70	130				
Thallium, Dissolved	0.05377	0.0010	0.05	0	108	70	130				

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits



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ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_DISS

Sample ID	03121286-11B MS	SampType: MS	TestCode: 200.8_DISS	Units: mg/L	Prep Date: 1/6/2004	RunNo: 42645					
Client ID:	OWB-6	Batch ID: 16001	TestNo: E200.8		Analysis Date: 1/6/2004	SeqNo: 504032					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony, Dissolved	0.04894	0.0010	0.05	0	97.9	70	130				
Arsenic, Dissolved	0.05728	0.0010	0.05	0.004430	106	70	130				
Barium	0.05368	0.0010	0.05	0.005790	95.8	70	130				
Cadmium, Dissolved	0.04823	0.0010	0.05	0	96.5	70	130				
Chromium, Dissolved	0.04838	0.0010	0.05	0.001070	94.6	70	130				
Cobalt, Dissolved	0.05950	0.0010	0.05	0.01131	96.4	70	130				
Lead, Dissolved	0.06388	0.0010	0.05	0	128	70	130				
Manganese, Dissolved	0.2241	0.0025	0.05	0.1740	100	70	130				
Nickel, Dissolved	0.06384	0.0010	0.05	0.01567	96.3	70	130				
Selenium, Dissolved	0.04993	0.0010	0.05	0	99.9	70	130				
Thallium, Dissolved	0.05423	0.0010	0.05	0	108	70	130				

Sample ID	03121286-01B MSD	SampType: MSD	TestCode: 200.8_DISS	Units: mg/L	Prep Date: 1/6/2004	RunNo: 42645					
Client ID:	BHP-9	Batch ID: 16001	TestNo: E200.8		Analysis Date: 1/6/2004	SeqNo: 504021					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony, Dissolved	0.04847	0.0010	0.05	0	96.9	70	130	0.04878	0.638	20	
Arsenic, Dissolved	0.05828	0.0010	0.05	0.005970	105	70	130	0.05834	0.103	20	
Barium	0.05968	0.0010	0.05	0.01383	91.7	70	130	0.06027	0.984	20	
Cadmium, Dissolved	0.04697	0.0010	0.05	0	93.9	70	130	0.04764	1.42	20	
Chromium, Dissolved	0.04784	0.0010	0.05	0	95.7	70	130	0.04805	0.438	20	
Cobalt, Dissolved	0.08001	0.0010	0.05	0.03173	96.6	70	130	0.07906	1.19	20	
Lead, Dissolved	0.06026	0.0010	0.05	0.003790	113	70	130	0.05836	3.20	20	
Manganese, Dissolved	0.5206	0.0025	0.05	0.4720	97.2	70	130	0.5051	3.00	20	
Nickel, Dissolved	0.08909	0.0010	0.05	0.04068	96.8	70	130	0.08824	0.959	20	
Selenium, Dissolved	0.05043	0.0010	0.05	0.001070	98.7	70	130	0.05058	0.297	20	
Thallium, Dissolved	0.05478	0.0010	0.05	0	110	70	130	0.05377	1.86	20	

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Project: Florence Copper/21622.008

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_DISS

Sample ID	03121286-11B MSD	SampType:	MSD	TestCode:	200.8_DISS	Units:	mg/L	Prep Date:	1/6/2004	RunNo:	42645
Client ID:	OWB-6	Batch ID:	16001	TestNo:	E200.8			Analysis Date:	1/6/2004	SeqNo:	504033
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony, Dissolved	0.04995	0.0010	0.05	0	99.9	70	130	0.04894	2.04	20	
Arsenic, Dissolved	0.05693	0.0010	0.05	0.004430	105	70	130	0.05728	0.613	20	
Barium	0.05352	0.0010	0.05	0.005790	95.5	70	130	0.05368	0.299	20	
Cadmium, Dissolved	0.04855	0.0010	0.05	0	97.1	70	130	0.04823	0.661	20	
Chromium, Dissolved	0.04830	0.0010	0.05	0.001070	94.5	70	130	0.04838	0.165	20	
Cobalt, Dissolved	0.05942	0.0010	0.05	0.01131	96.2	70	130	0.05950	0.135	20	
Lead, Dissolved	0.05493	0.0010	0.05	0	110	70	130	0.06388	15.1	20	
Manganese, Dissolved	0.2172	0.0025	0.05	0.1740	86.4	70	130	0.2241	3.13	20	
Nickel, Dissolved	0.06381	0.0010	0.05	0.01567	96.3	70	130	0.06384	0.0470	20	
Selenium, Dissolved	0.05033	0.0010	0.05	0	101	70	130	0.04993	0.798	20	
Thallium, Dissolved	0.05428	0.0010	0.05	0	109	70	130	0.05423	0.0922	20	

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits



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CLIENT: Brown & Caldwell
Work Order: 03121286
Project: Florence Copper/21622.008

ANALYTICAL QC SUMMARY REPORT

TestCode: 245.1_W_DISS

Sample ID	MB-16155	SampType: MBLK	TestCode: 245.1_W_DIS	Units: mg/L	Prep Date: 1/19/2004	RunNo: 43172						
Client ID:		Batch ID: 16155	TestNo: E245.1		Analysis Date: 1/20/2004	SeqNo: 511378						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		< 0.00020	0.00020									

Sample ID	MB-16288	SampType: MBLK	TestCode: 245.1_W_DIS	Units: mg/L	Prep Date: 1/30/2004	RunNo: 43545						
Client ID:		Batch ID: 16288	TestNo: E245.1		Analysis Date: 1/30/2004	SeqNo: 515716						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		< 0.00020	0.00020									

Sample ID	LCS-16155	SampType: LCS	TestCode: 245.1_W_DIS	Units: mg/L	Prep Date: 1/19/2004	RunNo: 43172						
Client ID:		Batch ID: 16155	TestNo: E245.1		Analysis Date: 1/20/2004	SeqNo: 511379						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.005010	0.00020	0.005	0	100	85	115				

Sample ID	LCS-16288	SampType: LCS	TestCode: 245.1_W_DIS	Units: mg/L	Prep Date: 1/30/2004	RunNo: 43545						
Client ID:		Batch ID: 16288	TestNo: E245.1		Analysis Date: 1/30/2004	SeqNo: 515717						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.005540	0.00020	0.005	0	111	85	115				

Sample ID	LCSD-16155	SampType: LCSD	TestCode: 245.1_W_DIS	Units: mg/L	Prep Date: 1/19/2004	RunNo: 43172						
Client ID:		Batch ID: 16155	TestNo: E245.1		Analysis Date: 1/20/2004	SeqNo: 511380						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.005160	0.00020	0.005	0	103	85	115	0.005010	2.95	20	

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits



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CLIENT: Brown & Caldwell
Work Order: 03121286
Project: Florence Copper/21622.008

ANALYTICAL QC SUMMARY REPORT

TestCode: 245.1_W_DISS

Sample ID	LCSD-16288	SampType:	LCSD	TestCode:	245.1_W_DIS	Units:	mg/L	Prep Date:	1/30/2004	RunNo:	43545	
Client ID:		Batch ID:	16288	TestNo:	E245.1			Analysis Date:	1/30/2004	SeqNo:	515718	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.005520	0.00020	0.005	0	110	85	115	0.005540	0.362	20	

Sample ID	03121286-12BMS	SampType:	MS	TestCode:	245.1_W_DIS	Units:	mg/L	Prep Date:	1/19/2004	RunNo:	43172	
Client ID:	BHP-13	Batch ID:	16155	TestNo:	E245.1			Analysis Date:	1/20/2004	SeqNo:	511382	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.005200	0.00020	0.005	0	104	70	130				

Sample ID	03121286-10BMS	SampType:	MS	TestCode:	245.1_W_DIS	Units:	mg/L	Prep Date:	1/19/2004	RunNo:	43172	
Client ID:	BHP-5	Batch ID:	16155	TestNo:	E245.1			Analysis Date:	1/20/2004	SeqNo:	511394	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.005280	0.00020	0.005	0	106	70	130				

Sample ID	03121286-09BMS	SampType:	MS	TestCode:	245.1_W_DIS	Units:	mg/L	Prep Date:	1/30/2004	RunNo:	43545	
Client ID:	BHP-1	Batch ID:	16288	TestNo:	E245.1			Analysis Date:	1/30/2004	SeqNo:	515720	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.005680	0.00020	0.005	0	114	70	130				

Sample ID	03121286-12BMSD	SampType:	MSD	TestCode:	245.1_W_DIS	Units:	mg/L	Prep Date:	1/19/2004	RunNo:	43172	
Client ID:	BHP-13	Batch ID:	16155	TestNo:	E245.1			Analysis Date:	1/20/2004	SeqNo:	511383	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.005190	0.00020	0.005	0	104	70	130	0.005200	0.192	20	

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits



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Work Order: 03121286
Project: Florence Copper/21622.008

ANALYTICAL QC SUMMARY REPORT

TestCode: 245.1_W_DISS

Sample ID	03121286-10BMSD	SampType: MSD	TestCode: 245.1_W_DIS	Units: mg/L	Prep Date: 1/19/2004	RunNo: 43172					
Client ID: BHP-5	Batch ID: 16155	TestNo: E245.1	Analysis Date: 1/20/2004	SeqNo: 511395							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.005310	0.00020	0.005	0	106	70	130	0.005280	0.567	20	

Sample ID	03121286-09BMSD	SampType: MSD	TestCode: 245.1_W_DIS	Units: mg/L	Prep Date: 1/30/2004	RunNo: 43545					
Client ID: BHP-1	Batch ID: 16288	TestNo: E245.1	Analysis Date: 1/30/2004	SeqNo: 515721							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.005530	0.00020	0.005	0	111	70	130	0.005680	2.68	20	

Qualifiers: E Value above quantitation range
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits



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Work Order: 03121286
Project: Florence Copper/21622.008

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W

Sample ID	MB-R42836	SampType: MBLK	TestCode: 300_W	Units: mg/L	Prep Date:	RunNo: 42836					
Client ID:	Batch ID: R42836	TestNo: E300	Analysis Date: 1/8/2004			SeqNo: 506426					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	< 2.0	2.0
Fluoride	< 0.40	0.40
Sulfate	< 2.0	2.0

Sample ID	MB-R42838	SampType:	MBLK	TestCode:	300_W	Units:	mg/L	Prep Date:		RunNo:	42838		
Client ID:		Batch ID:	R42838	TestNo:	E300			Analysis Date:	1/9/2004	SeqNo:	506450		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	< 2.0	2.0
Fluoride	< 0.40	0.40
Sulfate	< 2.0	2.0

Sample ID	MB-R42870	SampType:	MBLK	TestCode:	300_W	Units:	mg/L	Prep Date:		RunNo:	42870		
Client ID:		Batch ID:	R42870	TestNo:	E300			Analysis Date:	1/9/2004	SeqNo:	506918		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	< 2.0	2.0
Fluoride	< 0.40	0.40
Sulfate	< 2.0	2.0

Sample ID	MB-R42873	SampType:	MBLK	TestCode:	300_W	Units:	mg/L	Prep Date:		RunNo:	42873			
Client ID:		Batch ID:	R42873	TestNo:	E300			Analysis Date:	1/10/2004	SeqNo:	506968			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	< 2.0	2.0
Sulfate	< 2.0	2.0

Qualifiers:	E Value above quantitation range	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	R RPD outside accepted recovery limits	S Spike Recovery outside accepted recovery limits

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ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W

Sample ID	LCS-R42836	SampType: LCS	TestCode: 300_W	Units: mg/L	Prep Date:	RunNo: 42836					
Client ID:		Batch ID: R42836	TestNo: E300		Analysis Date: 1/8/2004	SeqNo: 506427					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	9.910	2.0	10	0	99.1	90	110				
Fluoride	1.880	0.40	2	0	94.0	90	110				
Sulfate	10.07	2.0	10	0	101	90	110				

Sample ID	LCS-R42838	SampType: LCS	TestCode: 300_W	Units: mg/L	Prep Date:	RunNo: 42838					
Client ID:		Batch ID: R42838	TestNo: E300		Analysis Date: 1/9/2004	SeqNo: 506451					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	9.980	2.0	10	0	99.8	90	110				
Fluoride	1.960	0.40	2	0	98.0	90	110				
Sulfate	10.47	2.0	10	0	105	90	110				

Sample ID	LCS-R42870	SampType: LCS	TestCode: 300_W	Units: mg/L	Prep Date:	RunNo: 42870					
Client ID:		Batch ID: R42870	TestNo: E300		Analysis Date: 1/9/2004	SeqNo: 506919					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	9.770	2.0	10	0	97.7	90	110				
Fluoride	1.840	0.40	2	0	92.0	90	110				
Sulfate	9.900	2.0	10	0	99.0	90	110				

Sample ID	LCS-R42873	SampType: LCS	TestCode: 300_W	Units: mg/L	Prep Date:	RunNo: 42873					
Client ID:		Batch ID: R42873	TestNo: E300		Analysis Date: 1/10/2004	SeqNo: 506969					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	9.870	2.0	10	0	98.7	90	110				
Sulfate	10.17	2.0	10	0	102	90	110				

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Work Order: 03121286
Project: Florence Copper/21622.008

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W

Sample ID	LCSD-R42836	SampType: LCSD	TestCode: 300_W	Units: mg/L	Prep Date:	RunNo: 42836					
Client ID:		Batch ID: R42836	TestNo: E300		Analysis Date: 1/8/2004	SeqNo: 506439					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	10.02	2.0	10	0	100	90	110	9.910	1.10	20	
Fluoride	2.040	0.40	2	0	102	90	110	1.880	8.16	20	
Sulfate	10.75	2.0	10	0	108	90	110	10.07	6.53	20	

Sample ID	LCSD-R42838	SampType: LCSD	TestCode: 300_W	Units: mg/L	Prep Date:	RunNo: 42838					
Client ID:		Batch ID: R42838	TestNo: E300		Analysis Date: 1/9/2004	SeqNo: 506462					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	9.900	2.0	10	0	99.0	90	110	9.980	0.805	20	
Fluoride	2.010	0.40	2	0	101	90	110	1.960	2.52	20	
Sulfate	10.55	2.0	10	0	106	90	110	10.47	0.761	20	

Sample ID	LCSD-R42870	SampType: LCSD	TestCode: 300_W	Units: mg/L	Prep Date:	RunNo: 42870					
Client ID:		Batch ID: R42870	TestNo: E300		Analysis Date: 1/9/2004	SeqNo: 506931					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	9.800	2.0	10	0	98.0	90	110	9.770	0.307	20	
Fluoride	1.840	0.40	2	0	92.0	90	110	1.840	0	20	
Sulfate	9.990	2.0	10	0	99.9	90	110	9.900	0.905	20	

Sample ID	LCSD-R42873	SampType: LCSD	TestCode: 300_W	Units: mg/L	Prep Date:	RunNo: 42873					
Client ID:		Batch ID: R42873	TestNo: E300		Analysis Date: 1/10/2004	SeqNo: 506977					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	9.860	2.0	10	0	98.6	90	110	9.870	0.101	20	
Sulfate	10.39	2.0	10	0	104	90	110	10.17	2.14	20	

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
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Project: Florence Copper/21622.008

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W

Sample ID	04010651-01AMS	SampType: MS	TestCode: 300_W	Units: mg/L	Prep Date:	RunNo: 42836					
Client ID:		Batch ID: R42836	TestNo: E300		Analysis Date: 1/9/2004	SeqNo: 506438					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	12.15	2.0	10	3.720	84.3	80	120				
Fluoride	2.210	0.40	2	0	110	80	120				
Sulfate	11.56	2.0	10	2.640	89.2	80	120				

Sample ID	04010669-01AMS	SampType: MS	TestCode: 300_W	Units: mg/L	Prep Date:	RunNo: 42838					
Client ID:		Batch ID: R42838	TestNo: E300		Analysis Date: 1/9/2004	SeqNo: 506459					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	14.76	2.0	10	6.180	85.8	80	120				
Fluoride	2.060	0.40	2	0	103	80	120				
Sulfate	12.17	2.0	10	3.690	84.8	80	120				

Sample ID	04010728-02AMS	SampType: MS	TestCode: 300_W	Units: mg/L	Prep Date:	RunNo: 42870					
Client ID:		Batch ID: R42870	TestNo: E300		Analysis Date: 1/10/2004	SeqNo: 506930					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	13.79	2.0	10	5.490	83.0	80	120				
Fluoride	2.020	0.40	2	0	101	80	120				
Sulfate	12.94	2.0	10	4.160	87.8	80	120				

Sample ID	03121286-03AMS	SampType: MS	TestCode: 300_W	Units: mg/L	Prep Date:	RunNo: 42873					
Client ID:	BHP-6	Batch ID: R42873	TestNo: E300		Analysis Date: 1/10/2004	SeqNo: 506972					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	186.5	10	50	138.8	95.5	80	120				
Sulfate	196.3	10	50	150.2	92.3	80	120				

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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Work Order: 03121286
Project: Florence Copper/21622.008

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W

Sample ID	04010651-01ADUP	SampType: DUP	TestCode: 300_W	Units: mg/L	Prep Date:	RunNo: 42836					
Client ID:		Batch ID: R42836	TestNo: E300		Analysis Date: 1/9/2004	SeqNo: 506437					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	3.610	2.0						3.720	3.00	20	
Fluoride	< 0.40	0.40						0	0	20	
Sulfate	2.460	2.0						2.640	7.06	20	

Sample ID	04010669-01ADUP	SampType: DUP	TestCode: 300_W	Units: mg/L	Prep Date:	RunNo: 42838					
Client ID:		Batch ID: R42838	TestNo: E300		Analysis Date: 1/9/2004	SeqNo: 506458					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	6.260	2.0						6.180	1.29	20	
Fluoride	< 0.40	0.40						0	0	20	
Sulfate	3.620	2.0						3.690	1.92	20	

Sample ID	04010728-02ADUP	SampType: DUP	TestCode: 300_W	Units: mg/L	Prep Date:	RunNo: 42870					
Client ID:		Batch ID: R42870	TestNo: E300		Analysis Date: 1/10/2004	SeqNo: 506929					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	5.340	2.0						5.490	2.77	20	
Fluoride	< 0.40	0.40						0	0	20	
Sulfate	4.100	2.0						4.160	1.45	20	

Sample ID	03121286-03ADUP	SampType: DUP	TestCode: 300_W	Units: mg/L	Prep Date:	RunNo: 42873					
Client ID:	BHP-6	Batch ID: R42873	TestNo: E300		Analysis Date: 1/10/2004	SeqNo: 506971					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	137.8	10						138.8	0.723	20	
Sulfate	149.4	10						150.2	0.467	20	

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Work Order: 03121286
Project: Florence Copper/21622.008

ANALYTICAL QC SUMMARY REPORT

TestCode: 524_W_SDWA

Sample ID	MB-R42504	SampType:	MBLK	TestCode:	524_W_SDW	Units:	mg/L	Prep Date:		RunNo:	42504		
Client ID:		Batch ID:	R42504	TestNo:	E524.2			Analysis Date:	12/30/2003	SeqNo:	502084		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	< 0.00050	0.00050									
Ethylbenzene	< 0.00050	0.00050									
m,p-Xylene	< 0.00050	0.00050									
o-Xylene	< 0.00050	0.00050									
Toluene	< 0.00050	0.00050									
Surr: 1,2-Dichlorobenzene-d4	0.005270	0	0.005	0	105	70	130				
Surr: 4-Bromofluorobenzene	0.005240	0	0.005	0	105	70	130				

Sample ID	MB-R42569	SampType:	MBLK	TestCode:	524_W_SDW	Units:	mg/L	Prep Date:		RunNo:	42569		
Client ID:		Batch ID:	R42569	TestNo:	E524.2			Analysis Date:	12/31/2003	SeqNo:	502923		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	< 0.00050	0.00050									
Ethylbenzene	< 0.00050	0.00050									
m,p-Xylene	< 0.00050	0.00050									
o-Xylene	< 0.00050	0.00050									
Toluene	< 0.00050	0.00050									
Surr: 1,2-Dichlorobenzene-d4	0.005060	0	0.005	0	101	70	130				
Surr: 4-Bromofluorobenzene	0.005010	0	0.005	0	100	70	130				

Sample ID	LCS-R42504	SampType: LCS	TestCode: 524_W_SDW	Units: mg/L	Prep Date:	RunNo: 42504					
Client ID:	Batch ID: R42504	TestNo: E524.2	Analysis Date: 12/30/2003			SeqNo: 502085					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	0.004990	0.00050	0.005	0	99.8	70	130				
Ethylbenzene	0.004970	0.00050	0.005	0	99.4	70	130				
m,p-Xylene	0.01005	0.00050	0.01	0	100	70	130				
o-Xylene	0.005060	0.00050	0.005	0	101	70	130				
Toluene	0.004900	0.00050	0.005	0	98.0	70	130				

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits



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Project: Florence Copper/21622.008

ANALYTICAL QC SUMMARY REPORT

TestCode: 524_W_SDWA

Sample ID	LCS-R42504	SampType: LCS	TestCode: 524_W_SDW	Units: mg/L	Prep Date:	RunNo: 42504					
Client ID:		Batch ID: R42504	TestNo: E524.2		Analysis Date: 12/30/2003	SeqNo: 502085					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1,2-Dichlorobenzene-d4	0.004960	0	0.005	0	99.2	70	130				
Surr: 4-Bromofluorobenzene	0.004960	0	0.005	0	99.2	70	130				

Sample ID	LCS-R42569	SampType: LCS	TestCode: 524_W_SDW	Units: mg/L	Prep Date:	RunNo: 42569					
Client ID:		Batch ID: R42569	TestNo: E524.2		Analysis Date: 12/31/2003	SeqNo: 502924					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.005030	0.00050	0.005	0	101	70	130				
Ethylbenzene	0.005020	0.00050	0.005	0	100	70	130				
m,p-Xylene	0.01011	0.00050	0.01	0	101	70	130				
o-Xylene	0.005160	0.00050	0.005	0	103	70	130				
Toluene	0.005040	0.00050	0.005	0	101	70	130				
Surr: 1,2-Dichlorobenzene-d4	0.005140	0	0.005	0	103	70	130				
Surr: 4-Bromofluorobenzene	0.005150	0	0.005	0	103	70	130				

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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CLIENT: Brown & Caldwell
Work Order: 03121286
Project: Florence Copper/21622.008

ANALYTICAL QC SUMMARY REPORT

TestCode: ALKALINITY

Sample ID	MB-R42564	SampType: MBLK	TestCode: ALKALINITY	Units: mg/L CaCO3	Prep Date:	RunNo: 42564					
Client ID:		Batch ID: R42564	TestNo: M2320 B		Analysis Date: 1/2/2004	SeqNo: 502883					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Alkalinity, Bicarbonate (As CaCO3)
 Alkalinity, Carbonate (As CaCO3)
 Alkalinity, Hydroxide (As CaCO3)
 Alkalinity, Total (As CaCO3)

< 2.0
 < 2.0
 < 2.0
 < 6.0

2.0
 2.0
 2.0
 6.0

Sample ID	MB-R42564	SampType:	MBLK	TestCode:	ALKALINITY	Units:	mg/L CaCO3	Prep Date:		RunNo:	42564		
Client ID:		Batch ID:	R42564	TestNo:	M2320 B			Analysis Date:	1/2/2004	SeqNo:	502904		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Alkalinity, Bicarbonate (As CaCO3)
 Alkalinity, Carbonate (As CaCO3)
 Alkalinity, Hydroxide (As CaCO3)
 Alkalinity, Total (As CaCO3)

< 2.0
 < 2.0
 < 2.0
 < 6.0

2.0
 2.0
 2.0
 6.0

Sample ID	LCS-R42564	SampType: LCS	TestCode: ALKALINITY	Units: mg/L CaCO3	Prep Date:	RunNo: 42564					
Client ID:	Batch ID: R42564	TestNo: M2320 B	Analysis Date: 1/2/2004	SeqNo: 502884							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Alkalinity, Total (As CaCO3)

252.0

6.0

250

0

101

90

110

Sample ID	LCS-R42564	SampType:	LCS	TestCode:	ALKALINITY	Units:	mg/L CaCO3	Prep Date:		RunNo:	42564		
Client ID:		Batch ID:	R42564	TestNo:	M2320 B			Analysis Date:	1/2/2004	SeqNo:	502905		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Alkalinity, Total (As CaCO3)

250.0

6.0

250

0

100

90

110

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
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CLIENT: Brown & Caldwell
Work Order: 03121286
Project: Florence Copper/21622.008

ANALYTICAL QC SUMMARY REPORT

TestCode: ALKALINITY

Sample ID	03121286-01ADUP	SampType:	DUP	TestCode:	ALKALINITY	Units:	mg/L CaCO3	Prep Date:		RunNo:	42564
Client ID:	BHP-9	Batch ID:	R42564	TestNo:	M2320 B			Analysis Date:	1/2/2004	SeqNo:	502890
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	2.000	2.0						2.000	0	20	
Alkalinity, Carbonate (As CaCO3)	< 2.0	2.0						0	0	20	
Alkalinity, Hydroxide (As CaCO3)	< 2.0	2.0						0	0	20	
Alkalinity, Total (As CaCO3)	< 6.0	6.0						0	0	20	

Sample ID	03121286-11A DUP	SampType:	DUP	TestCode:	ALKALINITY	Units:	mg/L CaCO3	Prep Date:		RunNo:	42564
Client ID:	OWB-6	Batch ID:	R42564	TestNo:	M2320 B			Analysis Date:	1/2/2004	SeqNo:	502903
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	84.00	2.0						82.00	2.41	20	
Alkalinity, Carbonate (As CaCO3)	< 2.0	2.0						0	0	20	
Alkalinity, Hydroxide (As CaCO3)	< 2.0	2.0						0	0	20	
Alkalinity, Total (As CaCO3)	84.00	6.0						82.00	2.41	20	

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
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CLIENT: Brown & Caldwell
Work Order: 03121286
Project: Florence Copper/21622.008

ANALYTICAL QC SUMMARY REPORT

TestCode: NO2_W

Sample ID MB-R42554	SampType: MBLK	TestCode: NO2_W	Units: mg/L	Prep Date:	RunNo: 42554
Client ID:	Batch ID: R42554	TestNo: M4500-NO2 B	Analysis Date: 12/30/2003	SeqNo: 502765	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Nitrogen, Nitrite - N < 0.010 0.010

Sample ID LCS-R42554	SampType: LCS	TestCode: NO2_W	Units: mg/L	Prep Date:	RunNo: 42554
Client ID:	Batch ID: R42554	TestNo: M4500-NO2 B	Analysis Date: 12/30/2003	SeqNo: 502780	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Nitrogen, Nitrite - N 0.1010 0.010 0.1 0 101 90 110

Sample ID LCSD-R42554	SampType: LCSD	TestCode: NO2_W	Units: mg/L	Prep Date:	RunNo: 42554
Client ID:	Batch ID: R42554	TestNo: M4500-NO2 B	Analysis Date: 12/30/2003	SeqNo: 502781	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Nitrogen, Nitrite - N 0.1080 0.010 0.1 0 108 90 110 0.1010 6.70 20

Sample ID 03121286-06AMS	SampType: MS	TestCode: NO2_W	Units: mg/L	Prep Date:	RunNo: 42554
Client ID: BHP-4	Batch ID: R42554	TestNo: M4500-NO2 B	Analysis Date: 12/30/2003	SeqNo: 502772	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Nitrogen, Nitrite - N 0.09490 0.010 0.1 0 94.9 80 120

Sample ID 03121275-01MS	SampType: MS	TestCode: NO2_W	Units: mg/L	Prep Date:	RunNo: 42554
Client ID:	Batch ID: R42554	TestNo: M4500-NO2 B	Analysis Date: 12/30/2003	SeqNo: 512459	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Nitrogen, Nitrite - N 0.08230 0.010 0.1 0 82.3 80 120

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
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Project: Florence Copper/21622.008

ANALYTICAL QC SUMMARY REPORT

TestCode: NO2_W

Sample ID	03121286-06AMSD	SampType: MSD	TestCode: NO2_W	Units: mg/L	Prep Date:				RunNo: 42554			
Client ID:	BHP-4	Batch ID: R42554	TestNo: M4500-NO2 B		Analysis Date: 12/30/2003				SeqNo: 502773			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Nitrogen, Nitrite - N	0.09000	0.010	0.1	0	90.0	80	120	0.09490	5.30	20		

Sample ID	03121275-01AMSD	SampType: MSD	TestCode: NO2_W	Units: mg/L	Prep Date:				RunNo: 42554			
Client ID:		Batch ID: R42554	TestNo: M4500-NO2 B		Analysis Date: 12/30/2003				SeqNo: 502787			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Nitrogen, Nitrite - N	0.07880	0.010	0.1	0	78.8	80	120	0.08230	4.35	20	M7	

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
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CLIENT: Brown & Caldwell
Work Order: 03121286
Project: Florence Copper/21622.008

ANALYTICAL QC SUMMARY REPORT

TestCode: NO3/NO2_353.2

Sample ID MB-R42619	SampType: MBLK	TestCode: NO3/NO2_35	Units: mg/L	Prep Date:	RunNo: 42619
Client ID:	Batch ID: R42619	TestNo: E353.2		Analysis Date: 1/5/2004	SeqNo: 503524
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Nitrogen, Nitrate/Nitrite Total (As N) < 0.050 0.050

Sample ID MB-R42620	SampType: MBLK	TestCode: NO3/NO2_35	Units: mg/L	Prep Date:	RunNo: 42620
Client ID:	Batch ID: R42620	TestNo: E353.2		Analysis Date: 1/5/2004	SeqNo: 503535
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Nitrogen, Nitrate/Nitrite Total (As N) < 0.050 0.050

Sample ID MB-R42621	SampType: MBLK	TestCode: NO3/NO2_35	Units: mg/L	Prep Date:	RunNo: 42621
Client ID:	Batch ID: R42621	TestNo: E353.2		Analysis Date: 1/5/2004	SeqNo: 503549
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Nitrogen, Nitrate/Nitrite Total (As N) < 0.050 0.050

Sample ID LCS-R42619	SampType: LCS	TestCode: NO3/NO2_35	Units: mg/L	Prep Date:	RunNo: 42619
Client ID:	Batch ID: R42619	TestNo: E353.2		Analysis Date: 1/5/2004	SeqNo: 503525
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Nitrogen, Nitrate/Nitrite Total (As N) 2.010 0.050 2 0 101 90 110

Sample ID LCS-R42620	SampType: LCS	TestCode: NO3/NO2_35	Units: mg/L	Prep Date:	RunNo: 42620
Client ID:	Batch ID: R42620	TestNo: E353.2		Analysis Date: 1/5/2004	SeqNo: 503536
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Nitrogen, Nitrate/Nitrite Total (As N) 2.090 0.050 2 0 104 90 110

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
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ANALYTICAL QC SUMMARY REPORT

TestCode: NO3/NO2_353.2

Sample ID	LCS-R42621	SampType:	LCS	TestCode:	NO3/NO2_35	Units:	mg/L	Prep Date:		RunNo:	42621		
Client ID:		Batch ID:	R42621	TestNo:	E353.2			Analysis Date:	1/5/2004	SeqNo:	503550		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrogen, Nitrate/Nitrite Total (As N) 2.050 0.050 2 0 103 90 110

Sample ID	LCSD-R42619	SampType:	LCSD	TestCode:	NO3/NO2_35	Units:	mg/L	Prep Date:		RunNo:	42619		
Client ID:		Batch ID:	R42619	TestNo:	E353.2			Analysis Date:	1/5/2004	SeqNo:	503534		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrogen, Nitrate/Nitrite Total (As N) 2.050 0.050 2 0 103 90 110 2.010 1.97 20

Sample ID	LCSD-R42620	SampType:	LCSD	TestCode:	NO3/NO2_35	Units:	mg/L	Prep Date:		RunNo:	42620		
Client ID:		Batch ID:	R42620	TestNo:	E353.2			Analysis Date:	1/5/2004	SeqNo:	503548		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrogen, Nitrate/Nitrite Total (As N) 2.060 0.050 2 0 103 90 110 2.090 1.45 20

Sample ID	LCSD-R42621	SampType:	LCSD	TestCode:	NO3/NO2_35	Units:	mg/L	Prep Date:		RunNo:	42621		
Client ID:		Batch ID:	R42621	TestNo:	E353.2			Analysis Date:	1/5/2004	SeqNo:	503562		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrogen, Nitrate/Nitrite Total (As N) 2.050 0.050 2 0 103 90 110 2.050 0 20

Sample ID	03121286-01CMS	SampType:	MS	TestCode:	NO3/NO2_35	Units:	mg/L	Prep Date:		RunNo:	42619		
Client ID:	BHP-9	Batch ID:	R42619	TestNo:	E353.2			Analysis Date:	1/5/2004	SeqNo:	503532		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrogen, Nitrate/Nitrite Total (As N) 1.500 0.050 1 0.5000 100 90 110

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
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Project: Florence Copper/21622.008

ANALYTICAL QC SUMMARY REPORT

TestCode: NO3/NO2_353.2

Sample ID	03121286-03CMS	SampType:	MS	TestCode:	NO3/NO2_35	Units:	mg/L	Prep Date:		RunNo:	42620			
Client ID:	BHP-6	Batch ID:	R42620	TestNo:	E353.2			Analysis Date:	1/5/2004	SeqNo:	503539			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrogen, Nitrate/Nitrite Total (As N) 1.540 0.050 1 0.5300 101 90 110

Sample ID	03121324-01CMS	SampType:	MS	TestCode:	NO3/NO2_35	Units:	mg/L	Prep Date:		RunNo:	42621			
Client ID:		Batch ID:	R42621	TestNo:	E353.2			Analysis Date:	1/5/2004	SeqNo:	503555			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrogen, Nitrate/Nitrite Total (As N) 2.260 0.050 2 0.4500 90.5 90 110

Sample ID	03121286-01CMSD	SampType:	MSD	TestCode:	NO3/NO2_35	Units:	mg/L	Prep Date:		RunNo:	42619			
Client ID:	BHP-9	Batch ID:	R42619	TestNo:	E353.2			Analysis Date:	1/5/2004	SeqNo:	503533			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrogen, Nitrate/Nitrite Total (As N) 1.500 0.050 1 0.5000 100 90 110 1.500 0 20

Sample ID	03121286-03CMSD	SampType:	MSD	TestCode:	NO3/NO2_35	Units:	mg/L	Prep Date:		RunNo:	42620			
Client ID:	BHP-6	Batch ID:	R42620	TestNo:	E353.2			Analysis Date:	1/5/2004	SeqNo:	503540			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrogen, Nitrate/Nitrite Total (As N) 1.520 0.050 1 0.5300 99.0 90 110 1.540 1.31 20

Sample ID	03121324-01CMSD	SampType:	MSD	TestCode:	NO3/NO2_35	Units:	mg/L	Prep Date:		RunNo:	42621			
Client ID:		Batch ID:	R42621	TestNo:	E353.2			Analysis Date:	1/5/2004	SeqNo:	503556			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrogen, Nitrate/Nitrite Total (As N) 2.270 0.050 2 0.4500 91.0 90 110 2.260 0.442 20

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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CLIENT: Brown & Caldwell
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ANALYTICAL QC SUMMARY REPORT

TestCode: PH_W

Sample ID	LCS-R42582	SampType:	LCS	TestCode:	PH_W	Units:	pH units	Prep Date:		RunNo:	42582		
Client ID:		Batch ID:	R42582	TestNo:	E150.1			Analysis Date:	12/30/2003	SeqNo:	503135		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH		7.000		2.00	7	0	100	99.28	100.72				

Sample ID	LCSD-R42852	SampType:	LCSD	TestCode:	PH_W	Units:	pH units	Prep Date:		RunNo:	42582		
Client ID:		Batch ID:	R42582	TestNo:	E150.1			Analysis Date:	12/30/2003	SeqNo:	503134		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH		6.990		2.00	7	0	99.9	99.28	100.72	7.000	0.143	10	

Sample ID	03121286-01ADUP	SampType:	DUP	TestCode:	PH_W	Units:	pH units	Prep Date:		RunNo:	42582		
Client ID:	BHP-9	Batch ID:	R42582	TestNo:	E150.1			Analysis Date:	12/30/2003	SeqNo:	503132		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH		4.960		2.00						4.950	0.202	10	

Qualifiers: E Value above quantitation range
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits



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CLIENT: Brown & Caldwell
Work Order: 03121286
Project: Florence Copper/21622.008

ANALYTICAL QC SUMMARY REPORT

TestCode: S_TDS

Sample ID MB-R42536	SampType: MBLK	TestCode: S_TDS	Units: mg/L	Prep Date:	RunNo: 42536
Client ID:	Batch ID: R42536	TestNo: M2540 C		Analysis Date: 12/30/2003	SeqNo: 502535
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Total Dissolved Solids < 10 10

Sample ID MB2-R42536	SampType: MBLK	TestCode: S_TDS	Units: mg/L	Prep Date:	RunNo: 42536
Client ID:	Batch ID: R42536	TestNo: M2540 C		Analysis Date: 12/30/2003	SeqNo: 502873
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Total Dissolved Solids < 10 10

Sample ID MB-R42596	SampType: MBLK	TestCode: S_TDS	Units: mg/L	Prep Date:	RunNo: 42596
Client ID:	Batch ID: R42596	TestNo: M2540 C		Analysis Date: 12/31/2003	SeqNo: 503241
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Total Dissolved Solids < 10 10

Sample ID MB2-R42596	SampType: MBLK	TestCode: S_TDS	Units: mg/L	Prep Date:	RunNo: 42596
Client ID:	Batch ID: R42596	TestNo: M2540 C		Analysis Date: 12/31/2003	SeqNo: 503267
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Total Dissolved Solids < 10 10

Sample ID LCS-R42536	SampType: LCS	TestCode: S_TDS	Units: mg/L	Prep Date:	RunNo: 42536
Client ID:	Batch ID: R42536	TestNo: M2540 C		Analysis Date: 12/30/2003	SeqNo: 502541
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Total Dissolved Solids 951.0 10 1000 0 95.1 90 110

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits



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CLIENT: Brown & Caldwell
Work Order: 03121286
Project: Florence Copper/21622.008

ANALYTICAL QC SUMMARY REPORT

TestCode: S_TDS

Sample ID	LCS2-R42536	SampType: LCS	TestCode: S_TDS	Units: mg/L	Prep Date:	RunNo: 42536					
Client ID:		Batch ID: R42536	TestNo: M2540 C		Analysis Date: 12/30/2003	SeqNo: 502871					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Dissolved Solids	971.0	10	1000	0	97.1	90	110				
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Sample ID	LCS-R42596	SampType: LCS	TestCode: S_TDS	Units: mg/L	Prep Date:	RunNo: 42596					
Client ID:		Batch ID: R42596	TestNo: M2540 C		Analysis Date: 12/31/2003	SeqNo: 503264					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Dissolved Solids	1025	10	1000	0	103	90	110				
------------------------	------	----	------	---	-----	----	-----	--	--	--	--

Sample ID	LCS2-R42596	SampType: LCS	TestCode: S_TDS	Units: mg/L	Prep Date:	RunNo: 42596					
Client ID:		Batch ID: R42596	TestNo: M2540 C		Analysis Date: 12/31/2003	SeqNo: 503268					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Dissolved Solids	1017	10	1000	0	102	90	110				
------------------------	------	----	------	---	-----	----	-----	--	--	--	--

Sample ID	LCSD-R42536	SampType: LCSD	TestCode: S_TDS	Units: mg/L	Prep Date:	RunNo: 42536					
Client ID:		Batch ID: R42536	TestNo: M2540 C		Analysis Date: 12/30/2003	SeqNo: 502542					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Dissolved Solids	979.0	10	1000	0	97.9	90	110	951.0	2.90	10	
------------------------	-------	----	------	---	------	----	-----	-------	------	----	--

Sample ID	LCSD2-R42536	SampType: LCSD	TestCode: S_TDS	Units: mg/L	Prep Date:	RunNo: 42536					
Client ID:		Batch ID: R42536	TestNo: M2540 C		Analysis Date: 12/30/2003	SeqNo: 502872					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Dissolved Solids	977.0	10	1000	0	97.7	90	110	971.0	0.616	10	
------------------------	-------	----	------	---	------	----	-----	-------	-------	----	--

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits



Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

CLIENT: Brown & Caldwell
Work Order: 03121286
Project: Florence Copper/21622.008

ANALYTICAL QC SUMMARY REPORT

TestCode: S_TDS

Sample ID	LCSD-R42596	SampType:	LCSD	TestCode:	S_TDS	Units:	mg/L	Prep Date:		RunNo:	42596		
Client ID:		Batch ID:	R42596	TestNo:	M2540 C			Analysis Date:	12/31/2003	SeqNo:	503265		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Dissolved Solids	995.0	10	1000	0	99.5	90	110	1025	2.97	10
------------------------	-------	----	------	---	------	----	-----	------	------	----

Sample ID	LCSD2-R42596	SampType: LCSD	TestCode: S_TDS	Units: mg/L	Prep Date:					RunNo: 42596		
Client ID:		Batch ID: R42596	TestNo: M2540 C	Analysis Date: 12/31/2003					SeqNo: 503270			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Dissolved Solids	1004	10	1000	0	100	90	110	1017	1.29	10
------------------------	------	----	------	---	-----	----	-----	------	------	----

Sample ID	03121275-01ADUP	SampType:	DUP	TestCode:	S_TDS	Units:	mg/L	Prep Date:		RunNo:	42536		
Client ID:		Batch ID:	R42536	TestNo:	M2540 C			Analysis Date:	12/30/2003	SeqNo:	502539		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Dissolved Solids	469.0	10						473.0	0.849	10
------------------------	-------	----	--	--	--	--	--	-------	-------	----

Sample ID	03121286-10ADUP	SampType:	DUP	TestCode:	S_TDS	Units:	mg/L	Prep Date:		RunNo:	42536			
Client ID:	BHP-5	Batch ID:	R42536	TestNo:	M2540 C			Analysis Date:	12/30/2003	SeqNo:	502870			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Dissolved Solids	426.0	10						420.0	1.42	10
------------------------	-------	----	--	--	--	--	--	-------	------	----

Sample ID	03121324-01ADUP	SampType:	DUP	TestCode:	S_TDS	Units:	mg/L	Prep Date:		RunNo:	42596		
Client ID:		Batch ID:	R42596	TestNo:	M2540 C			Analysis Date:	12/31/2003	SeqNo:	503250		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Dissolved Solids	492.0	10						502.0	2.01	10
------------------------	-------	----	--	--	--	--	--	-------	------	----

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

Page 32 of 33



Aerotech Environmental Laboratories

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CLIENT: Brown & Caldwell
Work Order: 03121286
Project: Florence Copper/21622.008

ANALYTICAL QC SUMMARY REPORT

TestCode: S_TDS

Sample ID	03121324-05ADUP	SampType:	DUP	TestCode:	S_TDS	Units:	mg/L	Prep Date:		RunNo:	42596		
Client ID:		Batch ID:	R42596	TestNo:	M2540 C			Analysis Date:	12/31/2003	SeqNo:	503255		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids		476.0		10						476.0	0	10	

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

Page 33 of 33

Aerotech Environmental Laboratories Sample Receipt Checklist

Project checked by: _____

Accession Number: <u>0-312-1286</u>		Checklist completed by: <u>T. MacArthur 12-29</u>	
Client Name: <u>Brown + Caldwell</u>		Signature/Date	
Matrix: <u>DW</u>	Carrier Name: <u>Barb S.</u>	Date/Time Rec'd: <u>12-29-03</u>	By: <u>TU</u>

 Temperature of Samples? 5.6 °C Circle one: Blue Ice Wet Ice Not Present

	Yes	No	Not Present	Containers:
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/>			Brass Sleeve _____
Custody seals intact on shipping container/cooler?			<input checked="" type="checkbox"/>	Glass Jar _____
Custody seals intact on sample containers?			<input checked="" type="checkbox"/>	Methanol _____
Chain of Custody present and relinquished/received properly?	<input checked="" type="checkbox"/>			Plastic Bag _____
Chain of Custody agrees with sample labels?	<input checked="" type="checkbox"/>			
Samples in proper containers/bottles?	<input checked="" type="checkbox"/>			
Sample containers intact?	<input checked="" type="checkbox"/>			
All samples received within holding time?	<input checked="" type="checkbox"/>			
Do different containers of the same sample vary in appearance?		<input checked="" type="checkbox"/>	If Yes, Contact PM	
40mL vials for volatiles & SOC's received with zero headspace?	<input checked="" type="checkbox"/>			

 Total number of bottles received: 96 IH sample media: _____

Number of containers received by preservative (by sample number):

Preservative	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A-General	3	3	2	3	3	3	3	3	3	3	3	3			
B-HNO3	1	1	1	1	1	1	1	1	1	1	1	1			
C-H2SO4	1	1	1	1	1	1	1	1	1	1	1	1			
D-HCl	3	3	3	3	3	3	3	3	3	3	3	3			
E-Na2S2O3															
F-NaOH															
G-Sulfide															
H-525															
I-MCAA															
J-Methanol															
K-HAA															

*If more than 15 samples are rec'd, please continue on separate sheet(s)

 Water-pH acceptable upon receipt? Yes ☒ No ☐ N/A ☐

Preservative & pH	pH of samples upon receipt	If sample received with improper pH, list sample number and adjustments
Metals <2	<u><2</u>	
Nutrients <2	<u><2</u>	
Total Phenols <2		
413 (O&G) <2		
418 (TPH) <2		
Cyanide >12		
Sulfide >9		

Any No response must be detailed in the comments section below. Please continue on back if you run out of space.

Comments: <u>① No trip blank</u>
Corrective Action:



Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

[] Main Lab - 4645 E. Cotton Center Blvd., Building 3, Suite 189, Phoenix, AZ 85040 602.437.3340 - FAX 623.445.6192

[] North Phoenix - 1501 W. Knudsen, Phoenix, AZ 85027 623.780.4800 - FAX 623.445.6216

[] Tucson - 4455 S. Park Ave, Suite 110, Tucson, AZ 85714 520.807.3801 - FAX 520.807.3803

www.aeroenvirolabs.com or call toll-free 866.772.5227

* See Project Code

Lab Number:

0-312-1286

Customer Number:	Page 1 of 2
Customer: Brown + Caldwell	Sampler: B. Sylvester
Address: 21 E Washington Suite 500	Project Name: Florence Copper
City, State, Zip: Phoenix AZ 85004	Project Number: 21622-008
Contact: Bob Sylvester	P.O. Number:
Phone: 602 567 3894	Fax Results: Y (N)
Fax:	E-Mail Results: Y (N)
E-Mail Address:	

Sample Type Codes

DW - Drinking Water A - Air
WW - Waste Water S - Soil
HW - Hazardous Waste

Other

Sample Receipt

Temperature 5.6 °C
Custody Seals: Yes No
Custody Seals Intact: Yes No NA
Total # of Containers: 96

Turn Around Request

24 Hours 48 Hours
72 Hours
5 Working Days
Standard 10 Working Days

Subject to scheduling & availability (surcharges apply)

Analyses Requested

122 Metals
Inorganics
TP40 CIV-232
BTEX
524
PH, Bicarb, Carbene
105
200.8-56.94
Se, Ti 246.51-419
255-900.7-AL, Bar
Cd, Cu, Fe, Pb, Zn, Ni, Mn
Zn, Si, Al, Fe, Pb, Ni, Mn

Sample Information

Lab #	Sample Identification	Date	Time	Type	122 Metals	Inorganics	TP40 CIV-232	BTEX	524	PH, Bicarb, Carbene	105	200.8-56.94	Se, Ti 246.51-419	255-900.7-AL, Bar	Cd, Cu, Fe, Pb, Zn, Ni, Mn	Zn, Si, Al, Fe, Pb, Ni, Mn	# of sample Containers
01	BHP-9	12-29-03	0800	DW	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	8
02	BHP-8		0840		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
03	BHP-6		0905		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
04	BHP-7		0930		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
05	QWB-3		1000		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
06	BHP-4		1020		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
07	BHP-3		1045		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
08	BHP-10		1110		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
09	BHP-1		1135		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
10	BHP-5	12-29-03	1200	DW	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	8

Instructions / Special Requirements: Towner: Vanguard Properties 975 Johnson Ferry Rd Suite 450 Atlanta GA 30342

Date: 12-29-03	Time: 1539	Samples Relinquished By: [Signature]	Received By: T. Mac [Signature]
----------------	------------	--------------------------------------	---------------------------------



LABORATORY REPORT

Prepared For: Aerotech Laboratories, Inc.-Tempe
4645 E. Cotton Center Blvd. Bldg 3 #189
Phoenix, AZ 85044
Attention: Lucas Menendez

Project: 0-312-1286

Sampled: 12/29/03
Received: 12/30/03
Issued: 01/07/04

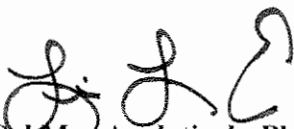
AZ DHS #AZ0426

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of Del Mar Analytical and its client. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical. The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.
This entire report was reviewed and approved for release.*

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 2°C, on ice and with chain of custody documentation.
HOLDING TIMES: Holding times were met.
PRESERVATION: Samples requiring preservation were verified prior to sample analysis.
QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.
COMMENTS: No significant observations were made.
SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

LABORATORY ID	CLIENT ID	MATRIX
PML0780-01	BHP-9	Water
PML0780-02	BHP-8	Water
PML0780-03	BHP-6	Water
PML0780-04	BHP-7	Water
PML0780-05	OWB-3	Water
PML0780-06	BHP-4	Water
PML0780-07	BHP-3	Water
PML0780-08	BHP-10	Water
PML0780-09	BHP-1	Water
PML0780-10	BHP-5	Water
PML0780-11	OWB-6	Water
PML0780-12	BHP-13	Water


Del Mar Analytical - Phoenix
Linda Eshelman
Project Manager



Aerotech Laboratories, Inc.-Tempe
 4645 E. Cotton Center Blvd. Bldg 3 #189
 Phoenix, AZ 85044
 Attention: Lucas Menendez

Project ID: 0-312-1286
 Report Number: PML0780

Sampled: 12/29/03
 Received: 12/30/03

EXTRACTABLE FUEL HYDROCARBONS (EPA 3510/8015B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PML0780-01 (BHP-9 - Water)								
Reporting Units: mg/l								
DRO (C10-C22)	EPA 8015B	P4A0221	0.25	ND	0.982	1/2/2004	1/2/2004	
ORO (C22-C32)	EPA 8015B	P4A0221	0.25	ND	0.982	1/2/2004	1/2/2004	
Total (C10-C32)	EPA 8015B	P4A0221	0.50	ND	0.982	1/2/2004	1/2/2004	
Surrogate: n-Docosane (75-125%)				86 %				
Sample ID: PML0780-02 (BHP-8 - Water)								
Reporting Units: mg/l								
DRO (C10-C22)	EPA 8015B	P4A0221	0.25	ND	0.984	1/2/2004	1/2/2004	
ORO (C22-C32)	EPA 8015B	P4A0221	0.25	ND	0.984	1/2/2004	1/2/2004	
Total (C10-C32)	EPA 8015B	P4A0221	0.50	ND	0.984	1/2/2004	1/2/2004	
Surrogate: n-Docosane (75-125%)				86 %				
Sample ID: PML0780-03 (BHP-6 - Water)								
Reporting Units: mg/l								
DRO (C10-C22)	EPA 8015B	P4A0221	0.25	ND	0.98	1/2/2004	1/2/2004	
ORO (C22-C32)	EPA 8015B	P4A0221	0.25	ND	0.98	1/2/2004	1/2/2004	
Total (C10-C32)	EPA 8015B	P4A0221	0.50	ND	0.98	1/2/2004	1/2/2004	
Surrogate: n-Docosane (75-125%)				90 %				
Sample ID: PML0780-04 (BHP-7 - Water)								
Reporting Units: mg/l								
DRO (C10-C22)	EPA 8015B	P4A0221	0.25	ND	1.02	1/2/2004	1/2/2004	
ORO (C22-C32)	EPA 8015B	P4A0221	0.25	ND	1.02	1/2/2004	1/2/2004	
Total (C10-C32)	EPA 8015B	P4A0221	0.50	ND	1.02	1/2/2004	1/2/2004	
Surrogate: n-Docosane (75-125%)				95 %				
Sample ID: PML0780-05 (OWB-3 - Water)								
Reporting Units: mg/l								
DRO (C10-C22)	EPA 8015B	P4A0221	0.25	ND	0.982	1/2/2004	1/2/2004	
ORO (C22-C32)	EPA 8015B	P4A0221	0.25	ND	0.982	1/2/2004	1/2/2004	
Total (C10-C32)	EPA 8015B	P4A0221	0.50	ND	0.982	1/2/2004	1/2/2004	
Surrogate: n-Docosane (75-125%)				92 %				
Sample ID: PML0780-06 (BHP-4 - Water)								
Reporting Units: mg/l								
DRO (C10-C22)	EPA 8015B	P4A0221	0.25	ND	1	1/2/2004	1/2/2004	
ORO (C22-C32)	EPA 8015B	P4A0221	0.25	ND	1	1/2/2004	1/2/2004	
Total (C10-C32)	EPA 8015B	P4A0221	0.50	ND	1	1/2/2004	1/2/2004	
Surrogate: n-Docosane (75-125%)				93 %				

Del Mar Analytical - Phoenix
 Linda Eshelman
 Project Manager



Aerotech Laboratories, Inc.-Tempe
 4645 E. Cotton Center Blvd. Bldg 3 #189
 Phoenix, AZ 85044
 Attention: Lucas Menendez

Project ID: 0-312-1286
 Report Number: PML0780

Sampled: 12/29/03
 Received: 12/30/03

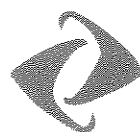
EXTRACTABLE FUEL HYDROCARBONS (EPA 3510/8015B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PML0780-07 (BHP-3 - Water)								
Reporting Units: mg/l								
DRO (C10-C22)	EPA 8015B	P4A0221	0.25	ND	1.02	1/2/2004	1/2/2004	
ORO (C22-C32)	EPA 8015B	P4A0221	0.25	ND	1.02	1/2/2004	1/2/2004	
Total (C10-C32)	EPA 8015B	P4A0221	0.50	ND	1.02	1/2/2004	1/2/2004	
Surrogate: n-Docosane (75-125%)				87 %				
Sample ID: PML0780-08 (BHP-10 - Water)								
Reporting Units: mg/l								
DRO (C10-C22)	EPA 8015B	P4A0221	0.25	ND	1	1/2/2004	1/2/2004	
ORO (C22-C32)	EPA 8015B	P4A0221	0.25	ND	1	1/2/2004	1/2/2004	
Total (C10-C32)	EPA 8015B	P4A0221	0.50	ND	1	1/2/2004	1/2/2004	
Surrogate: n-Docosane (75-125%)				99 %				
Sample ID: PML0780-09 (BHP-1 - Water)								
Reporting Units: mg/l								
DRO (C10-C22)	EPA 8015B	P4A0221	0.25	ND	1.02	1/2/2004	1/2/2004	
ORO (C22-C32)	EPA 8015B	P4A0221	0.25	ND	1.02	1/2/2004	1/2/2004	
Total (C10-C32)	EPA 8015B	P4A0221	0.50	ND	1.02	1/2/2004	1/2/2004	
Surrogate: n-Docosane (75-125%)				99 %				
Sample ID: PML0780-10 (BHP-5 - Water)								
Reporting Units: mg/l								
DRO (C10-C22)	EPA 8015B	P4A0221	0.25	ND	1	1/2/2004	1/2/2004	
ORO (C22-C32)	EPA 8015B	P4A0221	0.25	ND	1	1/2/2004	1/2/2004	
Total (C10-C32)	EPA 8015B	P4A0221	0.50	ND	1	1/2/2004	1/2/2004	
Surrogate: n-Docosane (75-125%)				86 %				
Sample ID: PML0780-11 (OWB-6 - Water)								
Reporting Units: mg/l								
DRO (C10-C22)	EPA 8015B	P4A0221	0.25	ND	1.01	1/2/2004	1/2/2004	
ORO (C22-C32)	EPA 8015B	P4A0221	0.25	ND	1.01	1/2/2004	1/2/2004	
Total (C10-C32)	EPA 8015B	P4A0221	0.50	ND	1.01	1/2/2004	1/2/2004	
Surrogate: n-Docosane (75-125%)				91 %				
Sample ID: PML0780-12 (BHP-13 - Water)								
Reporting Units: mg/l								
DRO (C10-C22)	EPA 8015B	P4A0221	0.25	ND	1.02	1/2/2004	1/2/2004	
ORO (C22-C32)	EPA 8015B	P4A0221	0.25	ND	1.02	1/2/2004	1/2/2004	
Total (C10-C32)	EPA 8015B	P4A0221	0.50	ND	1.02	1/2/2004	1/2/2004	
Surrogate: n-Docosane (75-125%)				95 %				

Del Mar Analytical - Phoenix
 Linda Eshelman
 Project Manager

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PML0780 <Page 3 of 5>



Aerotech Laboratories, Inc.-Tempe
4645 E. Cotton Center Blvd. Bldg 3 #189
Phoenix, AZ 85044
Attention: Lucas Menendez

Project ID: 0-312-1286
Report Number: PML0780

Sampled: 12/29/03
Received: 12/30/03

METHOD BLANK/QC DATA

EXTRACTABLE FUEL HYDROCARBONS (EPA 3510/8015B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: P4A0221 Extracted: 01/02/04									
Blank Analyzed: 01/02/04 (P4A0221-BLK2)									
DRO (C10-C22)	ND	0.25	mg/l						
ORO (C22-C32)	ND	0.25	mg/l						
Total (C10-C32)	ND	0.50	mg/l						
Surrogate: n-Docosane	0.389		mg/l	0.400		97 75-125			
LCS Analyzed: 01/02/04 (P4A0221-BS1)									
DRO (C10-C22)	1.51	0.25	mg/l	2.00		76 60-120			
ORO (C22-C32)	1.34	0.25	mg/l	2.00		67 55-130			
Surrogate: n-Docosane	0.448		mg/l	0.400		112 75-125			
LCS Dup Analyzed: 01/02/04 (P4A0221-BSD1)									
DRO (C10-C22)	1.42	0.25	mg/l	2.00		71 60-120	6	20	
ORO (C22-C32)	1.36	0.25	mg/l	2.00		68 55-130	1	20	
Surrogate: n-Docosane	0.426		mg/l	0.400		106 75-125			

Del Mar Analytical - Phoenix
Linda Eshelman
Project Manager

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PML0780 <Page 4 of 5>



Del Mar Analytical

2852 Alton Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Aerotech Laboratories, Inc.-Tempe
4645 E. Cotton Center Blvd. Bldg 3 #189
Phoenix, AZ 85044
Attention: Lucas Menendez

Project ID: 0-312-1286

Report Number: PML0780

Sampled: 12/29/03
Received: 12/30/03

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

ADDITIONAL COMMENTS

For Extractable Fuel Hydrocarbons (EFH, DRO, ORO) :

Unless otherwise noted, Extractable Fuel Hydrocarbons (EFH, DRO, ORO) are quantitated against a Diesel Fuel Standard.

Del Mar Analytical - Phoenix
Linda Eshelman
Project Manager



The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

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Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

[X] Main Lab - 4645 E. Cotton Center Blvd., Building 3, Suite 189, Phoenix, AZ 85040 602.437.3340 - FAX 623.445.6192

[] North Phoenix - 1501 W. Knudsen, Phoenix, AZ 85027 623.780.4800 - FAX 623.445.6216

[] Tucson - 4455 S. Park Ave, Suite 110, Tucson, AZ 85714 520.807.3801 - FAX 520.807.3803

www.aeroenvirolabs.com or call toll-free 866.772.5227

Lab Number:

PML0780

Customer Number:	Page _____ of _____
Customer: AEL	Sampler:
Address:	Project Name: 0-312-1286
City, State, Zip:	Project Number:
Contact: Lucas Hernandez	P.O. Number:
Phone:	Fax Results: Y N
Fax:	E-Mail Results: Y N
E-Mail Address:	

Sample Type Codes

DW - Drinking Water A - Air
WW - Waste Water S - Soil
HW - Hazardous Waste
Other DW

Sample Receipt

Temperature 2 °C
Custody Seals: Yes No X
Custody Seals Intact: Yes No X
Total # of Containers: 24

Turn Around Request

24 Hours 48 Hours
72 Hours
5 Working Days
Standard 10 Working Days

Subject to scheduling & availability (surcharges apply).

Analyses Requested

Sample Information

Lab #	Sample Identification	Date	Time	Type													# of sample Containers
01	BHP-9	12-29-03	0800	DW	X												
02	BHP-8	12-29-03	0840	DW	X												
03	BHP-6	12-29-03	0905	DW	X												
04	BHP-7	12-29-03	0930	DW	X												
05	DWB-3	12-29-03	1000	DW	X												
06	BHP-4	12-29-03	1020	DW	X												
07	BHP-3	12-29-03	1045	DW	X												
08	BHP-10	12-29-03	1115	DW	X												
09	BHP-1	12-29-03	1135	DW	X												
10	BHP-5	12-29-03	1200	DW	X												

Instructions / Special Requirements:

Date: 12/29/13	Time: 3:50	Samples Relinquished By: K. J. J. J.	Received By: [Signature]
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