

# NEL LABORATORIES

Reno • Las Vegas • Boise  
Phoenix • Sacramento

Las Vegas Division  
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(702) 657-1010 • Fax: (702) 657-1577  
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CLIENT: Brown & Caldwell  
3636 N. Central Ave. Suite 200  
Phoenix, AZ 85012  
ATTN: Barbara Sylvester

PROJECT NAME: BHP Florence  
PROJECT NUMBER: 15942/007

NEL ORDER ID: P0009059

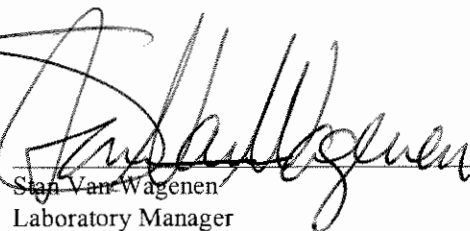
Attached are the analytical results for samples in support of the above referenced project.

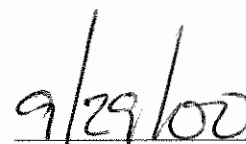
Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 9/20/00.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

## Some QA results have been flagged as follows:

J1 - The batch MS and/or MSD were outside acceptance limits. The batch LCS was acceptable.

  
Stan Van Wagenen  
Laboratory Manager

  
Date

## CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

# NEL LABORATORIES

CLIENT: Brown & Caldwell  
PROJECT ID: BHP Florence  
PROJECT #: 15942/007

CLIENT ID: OWB-3  
DATE SAMPLED: 9/20/00  
NEL SAMPLE ID: P0009059-01

TEST: AZ METALS PKG  
MATRIX: Aqueous

ANALYST: JY - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Aluminum	0.026	0.025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Antimony	ND	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Arsenic	0.0014	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Barium	0.017	0.0025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Beryllium	ND	0.0025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Cadmium	ND	0.002 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Calcium	69	0.25 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Chromium	ND	0.005 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Cobalt	ND	0.005 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Copper	0.014	0.0025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Iron	ND	0.05 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Lead	ND	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Magnesium	14	0.25 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Manganese	ND	0.0025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Mercury	ND	0.0002 mg/L	1	EPA 245.1	9/25/00	9/25/00
Nickel	ND	0.02 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Potassium	5.1	1. mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Selenium	0.0014	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Sodium	85	0.25 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Thallium	ND	0.0005 mg/L	1	EPA 200.8	9/21/00	9/22/00
Zinc	ND	0.05 mg/L	0.5	EPA 200.7	9/22/00	9/26/00

D.F. - Dilution Factor

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
PROJECT ID: BHP Florence  
PROJECT #: 15942/007

CLIENT ID: BHP-8  
DATE SAMPLED: 9/20/00  
NEL SAMPLE ID: P0009059-02

TEST: AZ METALS PKG  
MATRIX: Aqueous

ANALYST: JY - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Aluminum	3.5	0.025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Antimony	ND	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Arsenic	0.0037	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Barium	0.016	0.0025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Beryllium	0.0034	0.0025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Cadmium	ND	0.002 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Calcium	150	0.25 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Chromium	ND	0.005 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Cobalt	0.12	0.005 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Copper	28	0.025 mg/L	5	EPA 200.7	9/22/00	9/26/00
Iron	0.17	0.05 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Lead	0.0014	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Magnesium	39	0.25 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Manganese	1.6	0.0025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Mercury	ND	0.0002 mg/L	1	EPA 245.1	9/25/00	9/25/00
Nickel	0.14	0.02 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Potassium	7.3	1. mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Selenium	0.0043	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Sodium	91	0.25 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Thallium	ND	0.0005 mg/L	1	EPA 200.8	9/21/00	9/22/00
Zinc	0.23	0.05 mg/L	0.5	EPA 200.7	9/22/00	9/26/00

D.F. - Dilution Factor

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
 PROJECT ID: BHP Florence  
 PROJECT #: 15942/007

CLIENT ID: BHP-11  
 DATE SAMPLED: 9/20/00  
 NEL SAMPLE ID: P0009059-03

TEST: AZ METALS PKG  
 MATRIX: Aqueous

ANALYST: JY - Reno Division

<u>PARAMETER</u>	<u>RESULT</u> mg/L	<u>REPORTING</u> <u>LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>DIGESTED</u>	<u>ANALYZED</u>
Aluminum	ND	0.025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Antimony	ND	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Arsenic	0.0013	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Barium	0.022	0.0025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Beryllium	ND	0.0025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Cadmium	ND	0.002 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Calcium	73	0.25 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Chromium	ND	0.005 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Cobalt	ND	0.005 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Copper	0.20	0.0025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Iron	ND	0.05 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Lead	0.0017	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Magnesium	15	0.25 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Manganese	ND	0.0025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Mercury	ND	0.0002 mg/L	1	EPA 245.1	9/25/00	9/25/00
Nickel	ND	0.02 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Potassium	7.3	1. mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Selenium	0.0011	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Sodium	86	0.25 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Thallium	ND	0.0005 mg/L	1	EPA 200.8	9/21/00	9/22/00
Zinc	ND	0.05 mg/L	0.5	EPA 200.7	9/22/00	9/26/00

D.F. - Dilution Factor

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
PROJECT ID: BHP Florence  
PROJECT #: 15942/007

CLIENT ID: BHP-7  
DATE SAMPLED: 9/20/00  
NEL SAMPLE ID: P0009059-04

TEST: AZ METALS PKG  
MATRIX: Aqueous

ANALYST: JY - Reno Division

<u>PARAMETER</u>	<u>RESULT</u> <u>mg/L</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>DIGESTED</u>	<u>ANALYZED</u>
Aluminum	4.1	0.025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Antimony	ND	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Arsenic	0.0052	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Barium	0.020	0.0025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Beryllium	0.0034	0.0025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Cadmium	ND	0.002 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Calcium	130	0.25 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Chromium	ND	0.005 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Cobalt	0.11	0.005 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Copper	24	0.025 mg/L	5	EPA 200.7	9/22/00	9/26/00
Iron	ND	0.05 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Lead	0.0028	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Magnesium	34	0.25 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Manganese	1.5	0.0025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Mercury	ND	0.0002 mg/L	1	EPA 245.1	9/25/00	9/25/00
Nickel	0.14	0.02 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Potassium	7.3	1. mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Selenium	0.0027	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Sodium	84	0.25 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Thallium	ND	0.0005 mg/L	1	EPA 200.8	9/21/00	9/22/00
Zinc	0.21	0.05 mg/L	0.5	EPA 200.7	9/22/00	9/26/00

D.F. - Dilution Factor

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
PROJECT ID: BHP Florence  
PROJECT #: 15942/007

CLIENT ID: **BHP-3**  
DATE SAMPLED: 9/20/00  
NEL SAMPLE ID: P0009059-05

TEST: **AZ METALS PKG**  
MATRIX: Aqueous

ANALYST: JY - Reno Division

<u>PARAMETER</u>	<u>RESULT</u> mg/L	<u>REPORTING</u> <u>LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>DIGESTED</u>	<u>ANALYZED</u>
Aluminum	0.035	0.025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Antimony	ND	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Arsenic	0.0017	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Barium	0.042	0.0025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Beryllium	ND	0.0025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Cadmium	ND	0.002 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Calcium	87	0.25 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Chromium	ND	0.005 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Cobalt	0.013	0.005 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Copper	1.1	0.0025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Iron	ND	0.05 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Lead	ND	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Magnesium	18	0.25 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Manganese	0.20	0.0025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Mercury	ND	0.0002 mg/L	1	EPA 245.1	9/25/00	9/25/00
Nickel	0.022	0.02 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Potassium	6.0	1. mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Selenium	0.0013	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Sodium	84	0.25 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Thallium	ND	0.0005 mg/L	1	EPA 200.8	9/21/00	9/22/00
Zinc	ND	0.05 mg/L	0.5	EPA 200.7	9/22/00	9/26/00

D.F. - Dilution Factor

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
PROJECT ID: BHP Florence  
PROJECT #: 15942/007

CLIENT ID: BHP-10  
DATE SAMPLED: 9/20/00  
NEL SAMPLE ID: P0009059-06

TEST: AZ METALS PKG  
MATRIX: Aqueous

ANALYST: JY - Reno Division

<u>PARAMETER</u>	<u>RESULT</u> <u>mg/L</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>DIGESTED</u>	<u>ANALYZED</u>
Aluminum	0.034	0.025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Antimony	ND	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Arsenic	0.0026	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Barium	0.010	0.0025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Beryllium	ND	0.0025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Cadmium	ND	0.002 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Calcium	65	0.25 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Chromium	ND	0.005 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Cobalt	ND	0.005 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Copper	0.27	0.0025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Iron	0.063	0.05 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Lead	ND	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Magnesium	17	0.25 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Manganese	0.021	0.0025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Mercury	ND	0.0002 mg/L	1	EPA 245.1	9/25/00	9/25/00
Nickel	ND	0.02 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Potassium	4.8	1. mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Selenium	ND	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Sodium	85	0.25 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Thallium	ND	0.0005 mg/L	1	EPA 200.8	9/21/00	9/22/00
Zinc	ND	0.05 mg/L	0.5	EPA 200.7	9/22/00	9/26/00

D.F. - Dilution Factor

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
PROJECT ID: BHP Florence  
PROJECT #: 15942/007

CLIENT ID: BHP-6  
DATE SAMPLED: 9/20/00  
NEL SAMPLE ID: P0009059-07

TEST: AZ METALS PKG  
MATRIX: Aqueous

ANALYST: JY - Reno Division

<u>PARAMETER</u>	<u>RESULT</u> <u>mg/L</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>DIGESTED</u>	<u>ANALYZED</u>
Aluminum	4.4	0.025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Antimony	ND	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Arsenic	0.0076	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Barium	0.017	0.0025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Beryllium	0.0034	0.0025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Cadmium	ND	0.002 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Calcium	170	0.25 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Chromium	ND	0.005 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Cobalt	0.11	0.005 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Copper	24	0.025 mg/L	5	EPA 200.7	9/22/00	9/26/00
Iron	0.15	0.05 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Lead	0.0015	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Magnesium	39	0.25 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Manganese	1.7	0.0025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Mercury	ND	0.0002 mg/L	1	EPA 245.1	9/25/00	9/25/00
Nickel	0.13	0.02 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Potassium	6.7	1. mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Selenium	0.0022	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Sodium	81	0.25 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Thallium	ND	0.0005 mg/L	1	EPA 200.8	9/21/00	9/22/00
Zinc	0.22	0.05 mg/L	0.5	EPA 200.7	9/22/00	9/26/00

D.F. - Dilution Factor

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
PROJECT ID: BHP Florence  
PROJECT #: 15942/007

CLIENT ID: BHP-9  
DATE SAMPLED: 9/20/00  
NEL SAMPLE ID: P0009059-08

TEST: AZ METALS PKG  
MATRIX: Aqueous

ANALYST: JY - Reno Division

<u>PARAMETER</u>	<u>RESULT</u> mg/L	<u>REPORTING</u> <u>LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>DIGESTED</u>	<u>ANALYZED</u>
Aluminum	4.9	0.025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Antimony	ND	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Arsenic	0.0093	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Barium	0.021	0.0025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Beryllium	0.0046	0.0025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Cadmium	ND	0.002 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Calcium	140	0.25 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Chromium	ND	0.005 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Cobalt	0.11	0.005 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Copper	26	0.025 mg/L	5	EPA 200.7	9/22/00	9/26/00
Iron	0.055	0.05 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Lead	0.0019	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Magnesium	36	0.25 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Manganese	1.7	0.0025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Mercury	ND	0.0002 mg/L	1	EPA 245.1	9/25/00	9/25/00
Nickel	0.15	0.02 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Potassium	7.6	1. mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Selenium	0.0034	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Sodium	75	0.25 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Thallium	ND	0.0005 mg/L	1	EPA 200.8	9/21/00	9/22/00
Zinc	0.24	0.05 mg/L	0.5	EPA 200.7	9/22/00	9/26/00

D.F. - Dilution Factor

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
PROJECT ID: BHP Florence  
PROJECT #: 15942/007

CLIENT ID: BHP-13  
DATE SAMPLED: 9/20/00  
NEL SAMPLE ID: P0009059-09

TEST: AZ METALS PKG  
MATRIX: Aqueous

ANALYST: JY - Reno Division

<u>PARAMETER</u>	<u>RESULT</u> <u>mg/L</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>DIGESTED</u>	<u>ANALYZED</u>
Aluminum	ND	0.025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Antimony	ND	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Arsenic	0.0019	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Barium	0.031	0.0025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Beryllium	ND	0.0025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Cadmium	ND	0.002 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Calcium	67	0.25 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Chromium	ND	0.005 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Cobalt	ND	0.005 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Copper	0.031	0.0025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Iron	ND	0.05 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Lead	ND	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Magnesium	14	0.25 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Manganese	ND	0.0025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Mercury	ND	0.0002 mg/L	1	EPA 245.1	9/25/00	9/25/00
Nickel	ND	0.02 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Potassium	4.8	1. mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Selenium	0.0010	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Sodium	84	0.25 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Thallium	ND	0.0005 mg/L	1	EPA 200.8	9/21/00	9/22/00
Zinc	ND	0.05 mg/L	0.5	EPA 200.7	9/22/00	9/26/00

D.F. - Dilution Factor

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
PROJECT ID: BHP Florence  
PROJECT #: 15942/007

CLIENT ID: BHP-5  
DATE SAMPLED: 9/20/00  
NEL SAMPLE ID: P0009059-10

TEST: AZ METALS PKG  
MATRIX: Aqueous

ANALYST: JY - Reno Division

<u>PARAMETER</u>	<u>RESULT</u> <u>mg/L</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>DIGESTED</u>	<u>ANALYZED</u>
Aluminum	0.40	0.025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Antimony	ND	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Arsenic	0.0044	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Barium	0.0098	0.0025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Beryllium	ND	0.0025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Cadmium	ND	0.002 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Calcium	65	0.25 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Chromium	ND	0.005 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Cobalt	0.033	0.005 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Copper	7.6	0.0025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Iron	ND	0.05 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Lead	ND	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Magnesium	16	0.25 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Manganese	0.51	0.0025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Mercury	ND	0.0002 mg/L	1	EPA 245.1	9/25/00	9/25/00
Nickel	0.040	0.02 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Potassium	5.3	1. mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Selenium	0.0029	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Sodium	77	0.25 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Thallium	ND	0.0005 mg/L	1	EPA 200.8	9/21/00	9/22/00
Zinc	0.062	0.05 mg/L	0.5	EPA 200.7	9/22/00	9/26/00

D.F. - Dilution Factor

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
PROJECT ID: BHP Florence  
PROJECT #: 15942/007

CLIENT ID: Method Blank  
DATE SAMPLED: NA  
NEL SAMPLE ID: P09059HG-BLK

TEST: AZ METALS PKG

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<u>PARAMETER</u>	<u>RESULT</u> <u>mg/L</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>DIGESTED</u>	<u>ANALYZED</u>
Mercury	ND	0.0002 mg/L	1	EPA 245.1	9/25/00	9/25/00

D.F. - Dilution Factor

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
PROJECT ID: BHP Florence  
PROJECT #: 15942/007

CLIENT ID: Method Blank  
DATE SAMPLED: NA  
NEL SAMPLE ID: P09059i-BLK

TEST: AZ METALS PKG

<u>PARAMETER</u>	<u>RESULT</u> <u>mg/L</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>DIGESTED</u>	<u>ANALYZED</u>
Aluminum	ND	0.025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Barium	ND	0.0025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Beryllium	ND	0.0025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Cadmium	ND	0.002 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Calcium	ND	0.25 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Chromium	ND	0.005 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Cobalt	ND	0.005 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Copper	ND	0.0025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Iron	ND	0.05 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Magnesium	ND	0.25 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Manganese	ND	0.0025 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Nickel	ND	0.02 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Potassium	ND	1. mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Sodium	ND	0.25 mg/L	0.5	EPA 200.7	9/22/00	9/26/00
Zinc	ND	0.05 mg/L	0.5	EPA 200.7	9/22/00	9/26/00

D.F. - Dilution Factor

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
PROJECT ID: BHP Florence  
PROJECT #: 15942/007

CLIENT ID: Method Blank  
DATE SAMPLED: NA  
NEL SAMPLE ID: P09059M-BLK

TEST: AZ METALS PKG

<u>PARAMETER</u>	<u>RESULT</u> <u>mg/L</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>DIGESTED</u>	<u>ANALYZED</u>
Antimony	ND	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Arsenic	ND	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Lead	ND	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Selenium	ND	0.001 mg/L	1	EPA 200.8	9/21/00	9/22/00
Thallium	ND	0.0005 mg/L	1	EPA 200.8	9/21/00	9/22/00

D.F. - Dilution Factor

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
PROJECT ID: BHP Florence  
PROJECT #: 15942/007

CLIENT ID: **OWB-3**  
DATE SAMPLED: 9/20/00  
NEL SAMPLE ID: P0009059-01

TEST: **Inorganic Non-Metals**  
MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	140		1	SM 2320 B	mg/L	9/27/00
Alkalinity - Carbonate	ND		1	SM 2320 B	mg/L	9/27/00
Alkalinity - Hydroxide	ND		1	SM 2320 B	mg/L	9/27/00
Alkalinity, Total	140	25.	1	SM 2320 B	mg/L	9/27/00
Cation/Anion Balance	12	0.	1	Standard Methods	% Diff.	10/4/00
Chloride	140	10.	100	EPA 300.0	mg/L	9/26/00
Fluoride	0.52	0.4	1	SM 4500-F C	mg/L	9/27/00
Nitrate, as N	0.36	0.05	1	SM 4500-NO3	mg/L-N	9/27/00
pH	7.56	2.	1	EPA 150.1	pH Units	9/21/00
pH Temperature	23.1	1.	1	EPA 150.1	°C	9/21/00
Sulfate	57	10.	100	EPA 300.0	mg/L	9/26/00
Total Dissolved Solids	445	15.	1	SM 2540 C	mg/L	9/25/00

R.L. - Reporting Limi

D.F. - Dilution Factor

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
PROJECT ID: BHP Florence  
PROJECT #: 15942/007

CLIENT ID: **BHP-8**  
DATE SAMPLED: 9/20/00  
NEL SAMPLE ID: P0009059-02

TEST: **Inorganic Non-Metals**  
MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	ND		1	SM 2320 B	mg/L	9/27/00
Alkalinity - Carbonate	ND		1	SM 2320 B	mg/L	9/27/00
Alkalinity - Hydroxide	ND		1	SM 2320 B	mg/L	9/27/00
Alkalinity, Total	ND	25.	1	SM 2320 B	mg/L	9/27/00
Cation/Anion Balance	1	0.	1	Standard Methods	% Diff.	10/4/00
Chloride	130	10.	100	EPA 300.0	mg/L	9/26/00
Fluoride	1.6	0.4	1	SM 4500-F C	mg/L	9/27/00
Nitrate, as N	0.47	0.05	1	SM 4500-NO3	mg/L-N	9/27/00
pH	4.49	2.	1	EPA 150.1	pH Units	9/21/00
pH Temperature	23.7	1.	1	EPA 150.1	°C	9/21/00
Sulfate	540	10.	100	EPA 300.0	mg/L	9/26/00
Total Dissolved Solids	1100	15.	1	SM 2540 C	mg/L	9/25/00

R.L. - Reporting Limit

D.F. - Dilution Factor

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
PROJECT ID: BHP Florence  
PROJECT #: 15942/007

CLIENT ID: BHP-11  
DATE SAMPLED: 9/20/00  
NEL SAMPLE ID: P0009059-03

TEST: Inorganic Non-Metals  
MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	130		1	SM 2320 B	mg/L	9/27/00
Alkalinity - Carbonate	ND		1	SM 2320 B	mg/L	9/27/00
Alkalinity - Hydroxide	ND		1	SM 2320 B	mg/L	9/27/00
Alkalinity, Total	130	25.	1	SM 2320 B	mg/L	9/27/00
Cation/Anion Balance	14	0.	1	Standard Methods	% Diff.	10/4/00
Chloride	140	10.	100	EPA 300.0	mg/L	9/26/00
Fluoride	0.50	0.4	1	SM 4500-F C	mg/L	9/27/00
Nitrate, as N	0.38	0.05	1	SM 4500-NO3	mg/L-N	9/27/00
pH	7.56	2.	1	EPA 150.1	pH Units	9/21/00
pH Temperature	22.9	1.	1	EPA 150.1	°C	9/21/00
Sulfate	66	10.	100	EPA 300.0	mg/L	9/26/00
Total Dissolved Solids	446	15.	1	SM 2540 C	mg/L	9/25/00

R.L. - Reporting Limi

D.F. - Dilution Factor

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
PROJECT ID: BHP Florence  
PROJECT #: 15942/007

CLIENT ID: BHP-7  
DATE SAMPLED: 9/20/00  
NEL SAMPLE ID: P0009059-04

TEST: Inorganic Non-Metals  
MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	ND		1	SM 2320 B	mg/L	9/27/00
Alkalinity - Carbonate	ND		1	SM 2320 B	mg/L	9/27/00
Alkalinity - Hydroxide	ND		1	SM 2320 B	mg/L	9/27/00
Alkalinity, Total	ND	25.	1	SM 2320 B	mg/L	9/27/00
Cation/Anion Balance	0	0.	1	Standard Methods	% Diff.	10/4/00
Chloride	130	10.	100	EPA 300.0	mg/L	9/26/00
Fluoride	1.7	0.4	1	SM 4500-F C	mg/L	9/27/00
Nitrate, as N	0.43	0.05	1	SM 4500-NO3	mg/L-N	9/27/00
pH	4.07	2.	1	EPA 150.1	pH Units	9/21/00
pH Temperature	23.7	1.	1	EPA 150.1	°C	9/21/00
Sulfate	450	10.	100	EPA 300.0	mg/L	9/26/00
Total Dissolved Solids	959	15.	1	SM 2540 C	mg/L	9/25/00

R.L. - Reporting Limi

D.F. - Dilution Factor

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
PROJECT ID: BHP Florence  
PROJECT #: 15942/007

CLIENT ID: BHP-3  
DATE SAMPLED: 9/20/00  
NEL SAMPLE ID: P0009059-05

TEST: Inorganic Non-Metals  
MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	100		1	SM 2320 B	mg/L	9/27/00
Alkalinity - Carbonate	ND		1	SM 2320 B	mg/L	9/27/00
Alkalinity - Hydroxide	ND		1	SM 2320 B	mg/L	9/27/00
Alkalinity, Total	100	25.	1	SM 2320 B	mg/L	9/27/00
Cation/Anion Balance	13	0.	1	Standard Methods	% Diff.	10/4/00
Chloride	130	10.	100	EPA 300.0	mg/L	9/26/00
Fluoride	0.94	0.4	1	SM 4500-F C	mg/L	9/27/00
Nitrate, as N	0.39	0.05	1	SM 4500-NO3	mg/L-N	9/27/00
pH	6.89	2.	1	EPA 150.1	pH Units	9/21/00
pH Temperature	23.3	1.	1	EPA 150.1	°C	9/21/00
Sulfate	130	10.	100	EPA 300.0	mg/L	9/26/00
Total Dissolved Solids	549	15.	1	SM 2540 C	mg/L	9/25/00

R.L. - Reporting Limi

D.F. - Dilution Factor

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
PROJECT ID: BHP Florence  
PROJECT #: 15942/007

CLIENT ID: **BHP-10**  
DATE SAMPLED: 9/20/00  
NEL SAMPLE ID: P0009059-06

TEST: **Inorganic Non-Metals**  
MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	110		1	SM 2320 B	mg/L	9/27/00
Alkalinity - Carbonate	ND		1	SM 2320 B	mg/L	9/27/00
Alkalinity - Hydroxide	ND		1	SM 2320 B	mg/L	9/27/00
Alkalinity, Total	110	25.	1	SM 2320 B	mg/L	9/27/00
Cation/Anion Balance	13	0.	1	Standard Methods	% Diff.	10/4/00
Chloride	140	10.	100	EPA 300.0	mg/L	9/26/00
Fluoride	1.3	0.4	1	SM 4500-F C	mg/L	9/27/00
Nitrate, as N	0.48	0.05	1	SM 4500-NO3	mg/L-N	9/27/00
pH	7.22	2.	1	EPA 150.1	pH Units	9/21/00
pH Temperature	23.8	1.	1	EPA 150.1	°C	9/21/00
Sulfate	66	10.	100	EPA 300.0	mg/L	9/26/00
Total Dissolved Solids	436	15.	1	SM 2540 C	mg/L	9/25/00

R.L. - Reporting Limi

D.F. - Dilution Factor

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
PROJECT ID: BHP Florence  
PROJECT #: 15942/007

CLIENT ID: BHP-6  
DATE SAMPLED: 9/20/00  
NEL SAMPLE ID: P0009059-07

TEST: Inorganic Non-Metals  
MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	ND		1	SM 2320 B	mg/L	9/27/00
Alkalinity - Carbonate	ND		1	SM 2320 B	mg/L	9/27/00
Alkalinity - Hydroxide	ND		1	SM 2320 B	mg/L	9/27/00
Alkalinity, Total	ND	25.	1	SM 2320 B	mg/L	9/27/00
Cation/Anion Balance	2	0.	1	Standard Methods	% Diff.	10/4/00
Chloride	140	10.	100	EPA 300.0	mg/L	9/26/00
Fluoride	1.7	0.4	1	SM 4500-F C	mg/L	9/27/00
Nitrate, as N	0.48	0.05	1	SM 4500-NO3	mg/L-N	9/27/00
pH	3.94	2.	1	EPA 150.1	pH Units	9/21/00
pH Temperature	23.8	1.	1	EPA 150.1	°C	9/21/00
Sulfate	570	10.	100	EPA 300.0	mg/L	9/26/00
Total Dissolved Solids	1140	15.	1	SM 2540 C	mg/L	9/25/00

R.L. - Reporting Limi

D.F. - Dilution Factor

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
PROJECT ID: BHP Florence  
PROJECT #: 15942/007

CLIENT ID: BHP-9  
DATE SAMPLED: 9/20/00  
NEL SAMPLE ID: P0009059-08

TEST: Inorganic Non-Metals  
MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	ND		1	SM 2320 B	mg/L	9/27/00
Alkalinity - Carbonate	ND		1	SM 2320 B	mg/L	9/27/00
Alkalinity - Hydroxide	ND		1	SM 2320 B	mg/L	9/27/00
Alkalinity, Total	ND	25.	1	SM 2320 B	mg/L	9/27/00
Cation/Anion Balance	13	0.	1	Standard Methods	% Diff.	10/4/00
Chloride	140	10.	100	EPA 300.0	mg/L	9/26/00
Fluoride	2.0	0.4	1	SM 4500-F C	mg/L	9/27/00
Nitrate, as N	0.45	0.05	1	SM 4500-NO3	mg/L-N	9/27/00
pH	3.84	2.	1	EPA 150.1	pH Units	9/21/00
pH Temperature	23.4	1.	1	EPA 150.1	°C	9/21/00
Sulfate	490	10.	100	EPA 300.0	mg/L	9/26/00
Total Dissolved Solids	1030	15.	1	SM 2540 C	mg/L	9/25/00

R.L. - Reporting Limit

D.F. - Dilution Factor

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
PROJECT ID: BHP Florence  
PROJECT #: 15942/007

CLIENT ID: **BHP-13**  
DATE SAMPLED: 9/20/00  
NEL SAMPLE ID: P0009059-09

TEST: **Inorganic Non-Metals**  
MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	130		1	SM 2320 B	mg/L	9/27/00
Alkalinity - Carbonate	ND		1	SM 2320 B	mg/L	9/27/00
Alkalinity - Hydroxide	ND		1	SM 2320 B	mg/L	9/27/00
Alkalinity, Total	130	25.	1	SM 2320 B	mg/L	9/27/00
Cation/Anion Balance	11	0.	1	Standard Methods	% Diff.	10/4/00
Chloride	140	10.	100	EPA 300.0	mg/L	9/26/00
Fluoride	0.54	0.4	1	SM 4500-F C	mg/L	9/27/00
Nitrate, as N	0.40	0.05	1	SM 4500-NO3	mg/L-N	9/27/00
pH	7.76	2.	1	EPA 150.1	pH Units	9/21/00
pH Temperature	23.9	1.	1	EPA 150.1	°C	9/21/00
Sulfate	62	10.	100	EPA 300.0	mg/L	9/26/00
Total Dissolved Solids	428	15.	1	SM 2540 C	mg/L	9/25/00

R.L. - Reporting Limit

D.F. - Dilution Factor

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
PROJECT ID: BHP Florence  
PROJECT #: 15942/007

CLIENT ID: **BHP-5**  
DATE SAMPLED: 9/20/00  
NEL SAMPLE ID: P0009059-10

TEST: **Inorganic Non-Metals**  
MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	34		1	SM 2320 B	mg/L	9/27/00
Alkalinity - Carbonate	ND		1	SM 2320 B	mg/L	9/27/00
Alkalinity - Hydroxide	ND		1	SM 2320 B	mg/L	9/27/00
Alkalinity, Total	34	25.	1	SM 2320 B	mg/L	9/27/00
Cation/Anion Balance	4	0.	1	Standard Methods	% Diff.	10/4/00
Chloride	130	10.	100	EPA 300.0	mg/L	9/26/00
Fluoride	1.3	0.4	1	SM 4500-F C	mg/L	9/27/00
Nitrate, as N	0.38	0.05	1	SM 4500-NO3	mg/L-N	9/27/00
pH	6.05	2.	1	EPA 150.1	pH Units	9/21/00
pH Temperature	23.8	1.	1	EPA 150.1	°C	9/21/00
Sulfate	160	10.	100	EPA 300.0	mg/L	9/26/00
Total Dissolved Solids	524	15.	1	SM 2540 C	mg/L	9/25/00

R.L. - Reporting Limit

D.F. - Dilution Factor

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
PROJECT ID: BHP Florence  
PROJECT #: 15942/007

CLIENT ID: Method Blank  
DATE SAMPLED: NA  
NEL SAMPLE ID: 000925TDS-BLK

TEST: Non-Metals

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	9/25/00

D.F. - Dilution Factor

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
PROJECT ID: BHP Florence  
PROJECT #: 15942/007

CLIENT ID: Method Blank  
DATE SAMPLED: NA  
NEL SAMPLE ID: 000926IC-BLK

TEST: Non-Metals

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
Chloride	ND	0.1	1	EPA 300.0	mg/L	9/26/00
Sulfate	ND	0.1	1	EPA 300.0	mg/L	9/26/00

D.F. - Dilution Factor

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
PROJECT ID: BHP Florence  
PROJECT #: 15942/007

CLIENT ID: Method Blank  
DATE SAMPLED: NA  
NEL SAMPLE ID: 000927ALK-BLK

TEST: Non-Metals

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<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
Alkalinity - Bicarbonate	ND		1	SM 2320 B	mg/L	9/27/00
Alkalinity - Carbonate	ND		1	SM 2320 B	mg/L	9/27/00
Alkalinity - Hydroxide	ND		1	SM 2320 B	mg/L	9/27/00
Alkalinity, Total	ND	25	1	SM 2320 B	mg/L	9/27/00

D.F. - Dilution Factor

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
PROJECT ID: BHP Florence  
PROJECT #: 15942/007

CLIENT ID: Method Blank  
DATE SAMPLED: NA  
NEL SAMPLE ID: 000927F-BLK

TEST: Non-Metals

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
Fluoride	ND	0.4	1	SM 4500-F C	mg/L	9/27/00

D.F. - Dilution Factor

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
PROJECT ID: BHP Florence  
PROJECT #: 15942/007

CLIENT ID: Method Blank  
DATE SAMPLED: NA  
NEL SAMPLE ID: 000927NO2NO3C2-BLK

TEST: Non-Metals

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
Nitrate, as N	ND	0.05	1	SM 4500-NO3	mg/L-N	9/27/00

D.F. - Dilution Factor

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
PROJECT ID: BHP Florence  
PROJECT #: 15942/007

CLIENT ID: Method Blank  
DATE SAMPLED: NA  
NEL SAMPLE ID: 000927no2no3e-BLK

TEST: Non-Metals

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>D. F.</u>	<u>METHOD</u>	<u>UNITS</u>	<u>ANALYZED</u>
Nitrate, as N	ND	0.05	1	SM 4500-NO3	mg/L-N	9/27/00

D.F. - Dilution Factor

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
 PROJECT ID: BHP Florence  
 PROJECT #: 15942/007

CLIENT ID: **OWB-3**  
 DATE SAMPLED: 9/20/00  
 NEL SAMPLE ID: P0009059-01

TEST: **BTEX by EPA SW846 Method 8021B, Dec. 1996**

METHOD: EPA 8021B  
 MATRIX: Aqueous  
 DILUTION: 1

ANALYST: JQT - Division  
 EXTRACTED: 9/27/00  
 ANALYZED: 9/27/00

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Benzene	4.3 µg/L	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

## QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
a,a,a-Trifluorotoluene	91	75 - 125

ND - Not Detected

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# NEL LABORATORIES

CLIENT:	Brown & Caldwell	CLIENT ID:	<b>BHP-8</b>
PROJECT ID:	BHP Florence	DATE SAMPLED:	9/20/00
PROJECT #:	15942/007	NEL SAMPLE ID:	P0009059-02
TEST:	<b>BTEX by EPA SW846 Method 8021B, Dec. 1996</b>		
METHOD:	EPA 8021B	ANALYST:	JQT - Division
MATRIX:	Aqueous	EXTRACTED:	9/27/00
DILUTION:	1	ANALYZED:	9/27/00

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

## QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
a,a,a-Trifluorotoluene	96	75 - 125

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
PROJECT ID: BHP Florence  
PROJECT #: 15942/007

CLIENT ID: BHP-11  
DATE SAMPLED: 9/20/00  
NEL SAMPLE ID: P0009059-03

TEST: BTEX by EPA SW846 Method 8021B, Dec. 1996

METHOD: EPA 8021B

MATRIX: Aqueous

DILUTION: 1

ANALYST: JQT - Division

EXTRACTED: 9/27/00

ANALYZED: 9/27/00

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

## QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
a,a,a-Trifluorotoluene	89	75 - 125

ND - Not Detected

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# NEL LABORATORIES

CLIENT:	Brown & Caldwell	CLIENT ID:	<b>BHP-7</b>
PROJECT ID:	BHP Florence	DATE SAMPLED:	9/20/00
PROJECT #:	15942/007	NEL SAMPLE ID:	P0009059-04
TEST:	<b>BTEX by EPA SW846 Method 8021B, Dec. 1996</b>		
METHOD:	EPA 8021B	ANALYST:	JQT - Division
MATRIX:	Aqueous	EXTRACTED:	9/27/00
DILUTION:	1	ANALYZED:	9/27/00

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

## QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
a,a,a-Trifluorotoluene	84	75 - 125

ND - Not Detected

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# NEL LABORATORIES

CLIENT:	Brown & Caldwell	CLIENT ID:	<b>BHP-3</b>
PROJECT ID:	BHP Florence	DATE SAMPLED:	9/20/00
PROJECT #:	15942/007	NEL SAMPLE ID:	P0009059-05
TEST:	<b>BTEX by EPA SW846 Method 8021B, Dec. 1996</b>		
METHOD:	EPA 8021B	ANALYST:	JQT - Division
MATRIX:	Aqueous	EXTRACTED:	9/27/00
DILUTION:	1	ANALYZED:	9/27/00

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

## QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
a,a,a-Trifluorotoluene	86	75 - 125

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
PROJECT ID: BHP Florence  
PROJECT #: 15942/007

CLIENT ID: **BHP-10**  
DATE SAMPLED: 9/20/00  
NEL SAMPLE ID: P0009059-06

TEST: **BTEX by EPA SW846 Method 8021B, Dec. 1996**

METHOD: EPA 8021B  
MATRIX: Aqueous  
DILUTION: 1

ANALYST: JQT - Division  
EXTRACTED: 9/27/00  
ANALYZED: 9/27/00

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

## QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
a,a,a-Trifluorotoluene	83	75 - 125

ND - Not Detected

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# NEL LABORATORIES

CLIENT:	Brown & Caldwell	CLIENT ID:	<b>BHP-6</b>
PROJECT ID:	BHP Florence	DATE SAMPLED:	9/20/00
PROJECT #:	15942/007	NEL SAMPLE ID:	P0009059-07
TEST:	<b>BTEX by EPA SW846 Method 8021B, Dec. 1996</b>		
METHOD:	EPA 8021B	ANALYST:	JQT - Division
MATRIX:	Aqueous	EXTRACTED:	9/27/00
DILUTION:	1	ANALYZED:	9/27/00

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

## QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
a,a,a-Trifluorotoluene	83	75 - 125

ND - Not Detected

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# NEL LABORATORIES

CLIENT:	Brown & Caldwell	CLIENT ID:	<b>BHP-9</b>
PROJECT ID:	BHP Florence	DATE SAMPLED:	9/20/00
PROJECT #:	15942/007	NEL SAMPLE ID:	P0009059-08
TEST:	<b>BTEX by EPA SW846 Method 8021B, Dec. 1996</b>		
METHOD:	EPA 8021B	ANALYST:	JQT - Division
MATRIX:	Aqueous	EXTRACTED:	9/28/00
DILUTION:	1	ANALYZED:	9/28/00

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

## QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
a,a,a-Trifluorotoluene	86	75 - 125

ND - Not Detected

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# NEL LABORATORIES

CLIENT:	Brown & Caldwell	CLIENT ID:	<b>BHP-13</b>
PROJECT ID:	BHP Florence	DATE SAMPLED:	9/20/00
PROJECT #:	15942/007	NEL SAMPLE ID:	P0009059-09
TEST:	<b>BTEX by EPA SW846 Method 8021B, Dec. 1996</b>		
METHOD:	EPA 8021B	ANALYST:	JQT - Division
MATRIX:	Aqueous	EXTRACTED:	9/28/00
DILUTION:	1	ANALYZED:	9/28/00

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

## QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
a,a,a-Trifluorotoluene	85	75 - 125

ND - Not Detected

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# NEL LABORATORIES

CLIENT:	Brown & Caldwell	CLIENT ID:	<b>BHP-5</b>
PROJECT ID:	BHP Florence	DATE SAMPLED:	9/20/00
PROJECT #:	15942/007	NEL SAMPLE ID:	P0009059-10
TEST:	<b>BTEX by EPA SW846 Method 8021B, Dec. 1996</b>		
METHOD:	EPA 8021B	ANALYST:	JQT - Division
MATRIX:	Aqueous	EXTRACTED:	9/28/00
DILUTION:	1	ANALYZED:	9/28/00

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

## QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
a,a,a-Trifluorotoluene	86	75 - 125

ND - Not Detected

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# NEL LABORATORIES

CLIENT:	Brown & Caldwell	CLIENT ID:	Method Blank
PROJECT ID:	BHP Florence	DATE SAMPLED:	NA
PROJECT #:	15942/007	NEL SAMPLE ID:	000927BTEX_B-BLK

TEST:	<b>BTEX by EPA SW846 Method 8021B, Dec. 1996</b>		
METHOD:	EPA 8021B	ANALYST:	JQT - Division
MATRIX:	Aqueous	EXTRACTED:	9/27/00
		ANALYZED:	9/27/00

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

## QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
a,a,a-Trifluorotoluene	96	75 - 125

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
PROJECT ID: BHP Florence  
PROJECT #: 15942/007

TEST: Total Extractable Petroleum Hydrocarbons by EPA Method 8015M, December 1996  
METHOD: EPA 8015M  
ORDER ID: P0009059

MATRIX: Aqueous

ANALYST: SLB - Las Vegas Division

CLIENT SAMPLE ID	SAMPLE DATE	NEL SAMPLE ID	RESULT mg/L	C.R.	Reporting Limit	Surrogate Recovery*	EXTRACTED	ANALYZED
OWB-3	9/20/00	P0009059-01	ND	ND	0.5 mg/L	100 %	9/22/00	9/22/00
BHP-8	9/20/00	P0009059-02	ND	ND	0.5 mg/L	95 %	9/22/00	9/22/00
BHP-11	9/20/00	P0009059-03	ND	ND	0.5 mg/L	94 %	9/22/00	9/22/00
BHP-7	9/20/00	P0009059-04	ND	ND	0.5 mg/L	95 %	9/22/00	9/22/00
BHP-3	9/20/00	P0009059-05	ND	ND	0.5 mg/L	97 %	9/22/00	9/22/00
BHP-10	9/20/00	P0009059-06	ND	ND	0.5 mg/L	88 %	9/22/00	9/22/00
BHP-6	9/20/00	P0009059-07	ND	ND	0.5 mg/L	85 %	9/25/00	9/25/00
BHP-9	9/20/00	P0009059-08	ND	ND	0.5 mg/L	95 %	9/25/00	9/25/00
BHP-13	9/20/00	P0009059-09	ND	ND	0.5 mg/L	88 %	9/25/00	9/25/00
BHP-5	9/20/00	P0009059-10	ND	ND	0.5 mg/L	89 %	9/25/00	9/25/00

## C.R.: Carbon Range

QUALITY CONTROL DATA (Total for Diesel Range):

Sample ID	Result	Acceptable Range	Surrogate Recovery*	Sample Number
Blank, 000922TP -BLK	ND	< 0.5 mg/L	89 %	NA
LCS, 000922TPHW-LCS	78 %	60 - 86 %	101 %	NA
LCSD, 000922TPHW-LCSD	72 %	60 - 86 %	101 %	NA
Blank, 000925TP -BLK	ND	< 0.5 mg/L	83 %	NA
LCS, 000925TPHW-LCS	68 %	60 - 86 %	83 %	NA
LCSD, 000925TPHW-LCSD	71 %	60 - 86 %	96 %	NA

\* Surrogate used was Octacosane, acceptance limits 65-130%.

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
PROJECT ID: BHP Florence  
PROJECT #: 15942/007  
TEST: Inorganic Non-Metals  
MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
7.00 Buffer	000921pH-LCS	7	6.99	100	99 - 101	
7.00 Buffer	000921pH-LCSD	7	7.02	100	99 - 101	0.4

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
PROJECT ID: BHP Florence  
PROJECT #: 15942/007  
TEST: Inorganic Non-Metals  
MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Total Dissolved Solids	000925TDS-LCS	1000	937	94	94 - 102	

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
 PROJECT ID: BHP Florence  
 PROJECT #: 15942/007  
 TEST: Inorganic Non-Metals  
 MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Chloride	000926IC-LCS	100	93	93	90 - 110	
Chloride	000926IC-LCSD	100	93	93	90 - 110	
Chloride	P0009059-09-MS	100	243	103	80 - 120	
Sulfate	000926IC-LCS	100	98	98	90 - 110	
Sulfate	000926IC-LCSD	100	97	97	90 - 110	1.
Sulfate	P0009059-09-MS	100	150	88	36 - 136	

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
PROJECT ID: BHP Florence  
PROJECT #: 15942/007  
TEST: Inorganic Non-Metals  
MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Alkalinity, Total	000927ALK-LCS	125	123.9	99	90 - 110	
Alkalinity, Total	000927ALK-LCSD	125	121.48	97	90 - 110	2.

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
 PROJECT ID: BHP Florence  
 PROJECT #: 15942/007  
 TEST: Inorganic Non-Metals  
 MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Fluoride	000927F-LCS	2	2.01	100	84 - 109	
Fluoride	000927F-LCSD	2	1.91	96	84 - 109	5.1
Fluoride	P0009059-01-MS	1	1.49	97	71 - 126	
Fluoride	P0009059-01-MSD	1	1.49	97	71 - 126	

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
PROJECT ID: BHP Florence  
PROJECT #: 15942/007  
TEST: Inorganic Non-Metals  
MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Nitrate, as N	000927NO2NO3C2-LCS	0.5	0.5047	101	85 - 115	
Nitrate, as N	L0009227-09-MS	1	0.748	75 JI	80 - 120	

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
PROJECT ID: BHP Florence  
PROJECT #: 15942/007  
TEST: **Inorganic Non-Metals**  
MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Nitrate, as N	000927no2no3e-LCS	0.5	0.5305	106	85 - 115	

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
 PROJECT ID: BHP Florence  
 PROJECT #: 15942/007  
 TEST: **Metals**  
 MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Mercury	P09059HG-LCS	0.005	0.00488	98	85 - 115	
Mercury	P0009059-01-MS	0.005	0.00466	93	70 - 130	
Mercury	P0009059-01-MSD	0.005	0.00466	93	70 - 130	

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
 PROJECT ID: BHP Florence  
 PROJECT #: 15942/007  
 TEST: Metals  
 MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Aluminum	P09059i-LCS	1	1.06	106	85 - 115	
Aluminum	P0009059-01-MS	1	1.05	102	75 - 125	
Aluminum	P0009059-01-MSD	1	1.05	102	75 - 125	
Barium	P09059i-LCS	1	0.977	98	85 - 115	
Barium	P0009059-01-MS	1	1	98	75 - 125	
Barium	P0009059-01-MSD	1	1	98	75 - 125	
Beryllium	P09059i-LCS	0.1	0.101	101	85 - 115	
Beryllium	P0009059-01-MS	0.1	0.102	102	75 - 125	
Beryllium	P0009059-01-MSD	0.1	0.102	102	75 - 125	
Cadmium	P09059i-LCS	0.2	0.204	102	85 - 115	
Cadmium	P0009059-01-MS	0.2	0.205	103	75 - 125	
Cadmium	P0009059-01-MSD	0.2	0.206	103	75 - 125	0.5
Calcium	P09059i-LCS	20	19.7	99	85 - 115	
Calcium	P0009059-01-MS	20	85	80	75 - 125	
Calcium	P0009059-01-MSD	20	87	90	75 - 125	11.8
Chromium	P09059i-LCS	0.5	0.498	100	85 - 115	
Chromium	P0009059-01-MS	0.5	0.496	99	75 - 125	
Chromium	P0009059-01-MSD	0.5	0.497	99	75 - 125	0.2
Cobalt	P09059i-LCS	0.5	0.494	99	85 - 115	
Cobalt	P0009059-01-MS	0.5	0.487	97	75 - 125	
Cobalt	P0009059-01-MSD	0.5	0.489	98	75 - 125	0.4
Copper	P09059i-LCS	0.5	0.491	98	85 - 115	
Copper	P0009059-01-MS	0.5	0.505	98	75 - 125	
Copper	P0009059-01-MSD	0.5	0.508	99	75 - 125	0.6
Iron	P09059i-LCS	1	1	100	85 - 115	
Iron	P0009059-01-MS	1	1	100	75 - 125	
Iron	P0009059-01-MSD	1	1.01	101	75 - 125	1.
Magnesium	P09059i-LCS	20	19.6	98	85 - 115	
Magnesium	P0009059-01-MS	20	32.9	95	75 - 125	
Magnesium	P0009059-01-MSD	20	33.3	97	75 - 125	2.1
Manganese	P09059i-LCS	0.5	0.493	99	85 - 115	
Manganese	P0009059-01-MS	0.5	0.489	98	75 - 125	
Manganese	P0009059-01-MSD	0.5	0.49	98	75 - 125	0.2
Nickel	P09059i-LCS	1	1.01	101	85 - 115	
Nickel	P0009059-01-MS	1	0.989	99	75 - 125	
Nickel	P0009059-01-MSD	1	0.99	99	75 - 125	0.1
Potassium	P09059i-LCS	20	19.6	98	85 - 115	
Potassium	P0009059-01-MS	20	24.5	97	75 - 125	

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
 PROJECT ID: BHP Florence  
 PROJECT #: 15942/007  
 TEST: **Metals**  
 MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Potassium	P0009059-01-MSD	20	24.9	99	75 - 125	2.
Sodium	P09059i-LCS	20	19.7	99	85 - 115	
Sodium	P0009059-01-MS	20	100	75	75 - 125	
Sodium	P0009059-01-MSD	20	103	90	75 - 125	18.2
Zinc	P09059i-LCS	0.5	0.501	100	85 - 115	
Zinc	P0009059-01-MS	0.5	0.511	102	75 - 125	
Zinc	P0009059-01-MSD	0.05	0.546	109	75 - 125	6.6

ND - Not Detected

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# NEL LABORATORIES

CLIENT: Brown & Caldwell  
 PROJECT ID: BHP Florence  
 PROJECT #: 15942/007  
 TEST: Metals  
 MATRIX: Aqueous

<u>PARAMETER</u>	<u>NEL Sample ID</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Antimony	P09059M-LCS	0.05	0.052	104	85 - 115	
Antimony	P0009059-01-MS	0.05	0.0581	116	75 - 125	
Antimony	P0009059-01-MSD	0.05	0.0587	117	75 - 125	1.
Arsenic	P09059M-LCS	0.1	0.0947	95	85 - 115	
Arsenic	P0009059-01-MS	0.1	0.1	99	75 - 125	
Arsenic	P0009059-01-MSD	0.1	0.102	101	75 - 125	2.
Lead	P09059M-LCS	0.05	0.0456	91	85 - 115	
Lead	P0009059-01-MS	0.05	0.0465	93	75 - 125	
Lead	P0009059-01-MSD	0.05	0.0475	95	75 - 125	2.1
Selenium	P09059M-LCS	0.1	0.0926	93	85 - 115	
Selenium	P0009059-01-MS	0.1	0.0964	95	75 - 125	
Selenium	P0009059-01-MSD	0.1	0.0983	97	75 - 125	2.
Thallium	P09059M-LCS	0.05	0.0541	108	85 - 115	
Thallium	P0009059-01-MS	0.05	0.0542	108	75 - 125	
Thallium	P0009059-01-MSD	0.05	0.055	110	75 - 125	1.5

ND - Not Detected

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Company: Brown and Caldwell Attention: Barb Sylvester

Address: 3636 North Central Avenue, Suite 200  
Phoenix, AZ 85012

Phone Number: (602) 222-4476 Fax Number: (602) 222-4466

Billing Address: \_\_\_\_\_ Expected Due Date: \_\_\_\_\_

BHP Accounts Payable, 7400 North Oracle Road  
Suite 200, Tucson, AZ 85704 9/27/00

Requested Turnaround: ☒ 5-day ☐ 2-day ☐ 1-day ☐ Other

## CHAIN OF CUSTODY

LAS VEGAS LEAD

NEL Work Order: P0009059

Project Name:  
BHP Florence

Project Number:  
15942/007

Purchase Order Number:  
34015543

Sampled By:  
B. Sylvester

Time/Date Sampled	Customer Sample Identification	N.E.L. Identification	# of Containers	Matrix (Box #1)	Preservative (Box #2)	Analysis	Remarks
9-20-00 0815	OLUB-3	01	1	B	AQ	✓	
0815	↓	↓	1	E		✓	
0815	↓	↓	2	A		✓	
0815	OLUB-3	↓	3	A		✓	
0845	BHP-8	02	1	B		✓	
0845	↓	↓	1	E		✓	
0845	↓	↓	2	A		✓	
0845	BHP-8	↓	3	A		✓	
0900	BHP-11	03	1	B	✓	✓	
9-20-00 0900	BHP-11	↓	1	E	AQ	✓	

Custody Seal intact? Y N None Temp. 6°C  
Condition when received good

Box #1 DW - Drinking Water SD - Solid  
WW - Waste Water AQ - Aqueous  
OL - Oil/Organic Liquid A - Air

Box #2 A. HCl E. Ice Only  
B. HNO<sub>3</sub> F. Other  
C. H<sub>2</sub>SO<sub>4</sub> G. Not Preserved  
D. NaOH

Relinquished by (Print)	(Signature)	Date/Time	Received by (Print)	(Signature)	Date/Time
1 Barbara Sylvester	<i>Barbara Sylvester</i>	9-20-00 1440	NEL PHX	<i>Chetox</i>	9-20-00 1440
2					
3					

The liability of NEL Laboratories Inc. is limited strictly to the price of sample analysis for those samples received in good condition by NEL. NEL is not responsible for loss, damage, resampling costs and/or qualified data related to samples not received in good condition, including adequate sample volume and number of containers. Customer signature of this CoC constitutes a purchase order for NEL to perform work and constitutes acceptance of all NEL Standard Terms and Conditions. Signature also constitutes acceptance of NEL Standard List Prices for all services ordered here on, except those specified otherwise via an NEL Quotation for Testing Services in effect at the time of sample receipt. NEL turnaround times are measured in regular working days. Samples received at the laboratory after 16:30 will be considered received on the next working day. Commitment of laboratory to the requested turnaround time will be confirmed via Sample Confirmation transmitted to the fax number provided above.

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Company: Brown and Caldwell Attention: Barb Sylvester

Address: 3636 North Central Avenue, Suite 200  
Phoenix, AZ 85012

Phone Number: (602) 222-4476 Fax Number: (602) 222-4466

Billing Address: BHP Accounts Payable, 7400 North Oracle Road  
Suite 200, Tucson, AZ 85704 Expected Due Date: 9/27/00

Requested Turnaround: ☒ 5-day ☐ 2-day ☐ 1-day ☐ Other

Time/Date Sampled	Customer Sample Identification	N.E.L. Identification	# of Containers	Matrix (Box #1)	Preservative (Box #2)	Analysis	Remarks
9-20-00 0900	BHP-11	03	2	A AQ		✓	
0900	BHP-11	↓	3	A		✓	
0930	BHP-7	04	1	B		✓	
0930	↓	↓	1	E		✓	
0930	↓	↓	2	A		✓	
0930	BHP-7	04	2	B A		✓	
1000	BHP-3	05	1	B		✓	
1000	↓	↓	1	E		✓	
1000	↓	↓	2	A		✓	
9-20-00 1000	BHP-3	↓	3	A AQ		✓	

Custody Seal intact? Y N None Temp. 6°C  
Condition when received good

Box #1 DW - Drinking Water SD - Solid  
WW - Waste Water AQ - Aqueous  
OL - Oil/Organic Liquid A - Air

Box #2 A. HCl E. Ice Only  
B. HNO<sub>3</sub> F. Other  
C. H<sub>2</sub>SO<sub>4</sub> G. Not Preserved  
D. NaOH

Relinquished by (Print)	(Signature)	Date/Time	Received by (Print)	(Signature)	Date/Time
1 Barbara Sylvester	<i>Barb Sylvester</i>	9-20-00/1440	NEL PAX	<i>Barb Sylvester</i>	9-20-00/1440
2					
3					

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**Phoenix, AZ 85012**  
Phone Number: **(602) 222-4476** Fax Number: **(602) 222-4466**

Billing Address: **BHP Accounts Payable, 7400 North Oracle Road**  
**Suite 200, Tucson, AZ 85704** Expected Due Date: **9/27/00**

Requested Turnaround: ☒ 5-day ☐ 2-day ☐ 1-day ☐ Other

## CHAIN OF CUSTODY LAS VEGAS LEAD

NEL Work Order: **P0009059**

Project Name: <b>BHP Florence</b>	Project Number: <b>15942/007</b>
Purchase Order Number: <b>34015543</b>	Sampled By: <b>B. Sylvester</b>

Time/Date Sampled	Customer Sample Identification	N.E.L. Identification	# of Containers	Matrix (Box #1)	Preservative (Box #2)	Analysis	Remarks
9-20-00 1045	BHP-10	06	1	B	AQ	✓	
1045	↓	↓	1	E		✓	
1045	↓	↓	3	A		✓	
1045	BHP-10	↓	3	A		✓	
1100	BHP-6	07	1	B		✓	
1100	↓	↓	1	E		✓	
1100	↓	↓	2	A		✓	
1100	BHP-6	↓	3	A		✓	
1120	BAP-9	08	1	B		✓	
9-20-00 1120	BHP-9	↓	1	E	AQ	✓	

Custody Seal intact? Y N None Temp. **60°C**  
Condition when received good

Box #1 DW - Drinking Water SD - Solid  
WW - Waste Water AQ - Aqueous  
OL - Oil/Organic Liquid A - Air

Box #2 A. HCl E. Ice Only  
B. HNO<sub>3</sub> F. Other  
C. H<sub>2</sub>SO<sub>4</sub> G. Not Preserved  
D. NaOH

Relinquished by (Print)	(Signature)	Date/Time	Received by (Print)	(Signature)	Date/Time
1 Barbara Sylvester	<i>[Signature]</i>	9-20-00 1440	NEL PHX	<i>[Signature]</i>	9-20-00 1440
2					
3					

The liability of NEL Laboratories Inc. is limited strictly to the price of sample analysis for those samples received in good condition by NEL. NEL is not responsible for loss, damage, resampling costs and/or qualified data related to samples not received in good condition, including adequate sample volume and number of containers. Customer signature of this CoC constitutes a purchase order for NEL to perform work and constitutes acceptance of all NEL Standard Terms and Conditions. Signature also constitutes acceptance of NEL Standard List Prices for all services ordered here on, except those specified otherwise via an NEL Quotation for Testing Services in effect at the time of sample receipt. NEL turnaround times are measured in regular working days. Samples received at the laboratory after 16:30 will be considered received on the next working day. Commitment of laboratory to the requested turnaround time will be confirmed via Sample Confirmation transmitted to the fax number provided above.



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Phoenix, AZ 85012  
Phone Number: (602) 222-4476 Fax Number: (602) 222-4466

Billing Address: BHP Accounts Payable, 7400 North Oracle Road Expected Due Date: 9/27/00  
Suite 200, Tucson, AZ 85704

Requested Turnaround: ☒ 5-day ☐ 2-day ☐ 1-day ☐ Other

Time/Date Sampled	Customer Sample Identification	N.E.L. Identification	# of Containers	Matrix (Box #1)	Preservative (Box #2)	Analysis	Remarks
9-20-00 1120	BHP-9	08	2	A	AQ	✓	
1120	BHP-9	↓	3	A	↓	✓	
1140	BHP-13	09	1	B	↓	✓	
1140	↓	↓	1	E	↓	✓	
1140	↓	↓	2	A	↓	✓	
1140	BHP-13	↓	3	A	↓	✓	
1200	BHP-5	10	1	B	↓	✓	
1200	↓	↓	1	E	↓	✓	
1200	↓	↓	2	A	↓	✓	
9-20-00 1200	BHP-5	↓	3	A	AQ	✓	

Custody Seal intact? Y N None Temp. 6°C  
Condition when received good

Box #1 DW - Drinking Water SD - Solid  
WW - Waste Water AQ - Aqueous  
OL - Oil/Organic Liquid A - Air

Box #2 A. HCl E. Ice Only  
B. HNO<sub>3</sub> F. Other  
C. H<sub>2</sub>SO<sub>4</sub> G. Not Preserved  
D. NaOH

Relinquished by (Print)	(Signature)	Date/Time	Received by (Print)	(Signature)	Date/Time
1 Barbara Sylvester	<i>[Signature]</i>	9-20-00 1440	NEL P+X	<i>[Signature]</i>	9-20-00 1440
2					
3					

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## CHAIN OF CUSTODY LAS VEGAS LEAD

NEL Work Order: 10009059

Project Name: <b>BHP Florence</b>	Project Number: <b>15942/007</b>
Purchase Order Number: <b>34015543</b>	Sampled By: <b>B. Sylvester</b>

# of Containers	Matrix (Box #1)	Preservative (Box #2)	Analysis	Remarks
			4/4	

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Company: Brown + Caldwell Attention: Barb Sylvester  
Address: 3636 N Central Ave Suite 200  
Phoenix AZ 85012  
Phone Number: 602-222-4476 Fax Number: 602-222-4466  
Billing Address: BHP-Accounts Payable 7400 N Expected Due Date:  
Oracle Rd Suite 200 Tucson AZ 85704  
Requested Turnaround: X 5-day      2-day      1-day      Other

CHAIN OF CUSTODY  
LAS VEGAS LEAD

NEL Work Order: P0009064

Project Name: BHP-Florence	Project Number: 15942.007
Purchase Order Number: 34019543	Sampled By: B. Sylvester

## Analysis

# of Containers	Matrix (Box #1)	Preservative (Box #2)
-----------------	-----------------	-----------------------



Metals  
Alloys  
TPH-0  
STEX

21/2

[illegible]

Custody Seal intact? Y N None Temp. 60°C  
Condition when received good

Box #1	DW - Drinking Water WW - Waste Water OL - Oil/Organic Liquid	SD - Solid AQ - Aqueous A - Air	Box #2	A. HCl B. HNO <sub>3</sub> C. H <sub>2</sub> SO <sub>4</sub> D. NaOH	E. Ice Only F. Other _____ G. Not Preserved
--------	--	---------------------------------------	--------	---	---

Relinquished by (Print)	(Signature)	Date/Time	Received by (Print)	(Signature)	Date/Time
1 Barbara Sylvester		9-21-00 / 1420	NEL PHX		9-21-00 / 1420
2					
3					

The liability of NEL Laboratories Inc. is limited strictly to the price of sample analysis for those samples received in good condition by NEL. NEL is not responsible for loss, damage, resampling costs and/or qualified data related to samples not received in good condition, including adequate sample volume and number of containers. Customer signature of this CoC constitutes a purchase order for NEL to perform work and constitutes acceptance of all NEL Standard Terms and Conditions. Signature also constitutes acceptance of NEL Standard List Prices for all services ordered here on, except those specified otherwise via an NEL Quotation for Testing Services in effect at the time of sample receipt. NEL turnaround times are measured in regular working days. Samples received at the laboratory after 16:30 will be considered received on the next working day. Commitment of laboratory to the requested turnaround time will be confirmed via Sample Confirmation transmitted to the fax number provided above.

ORIGINAL