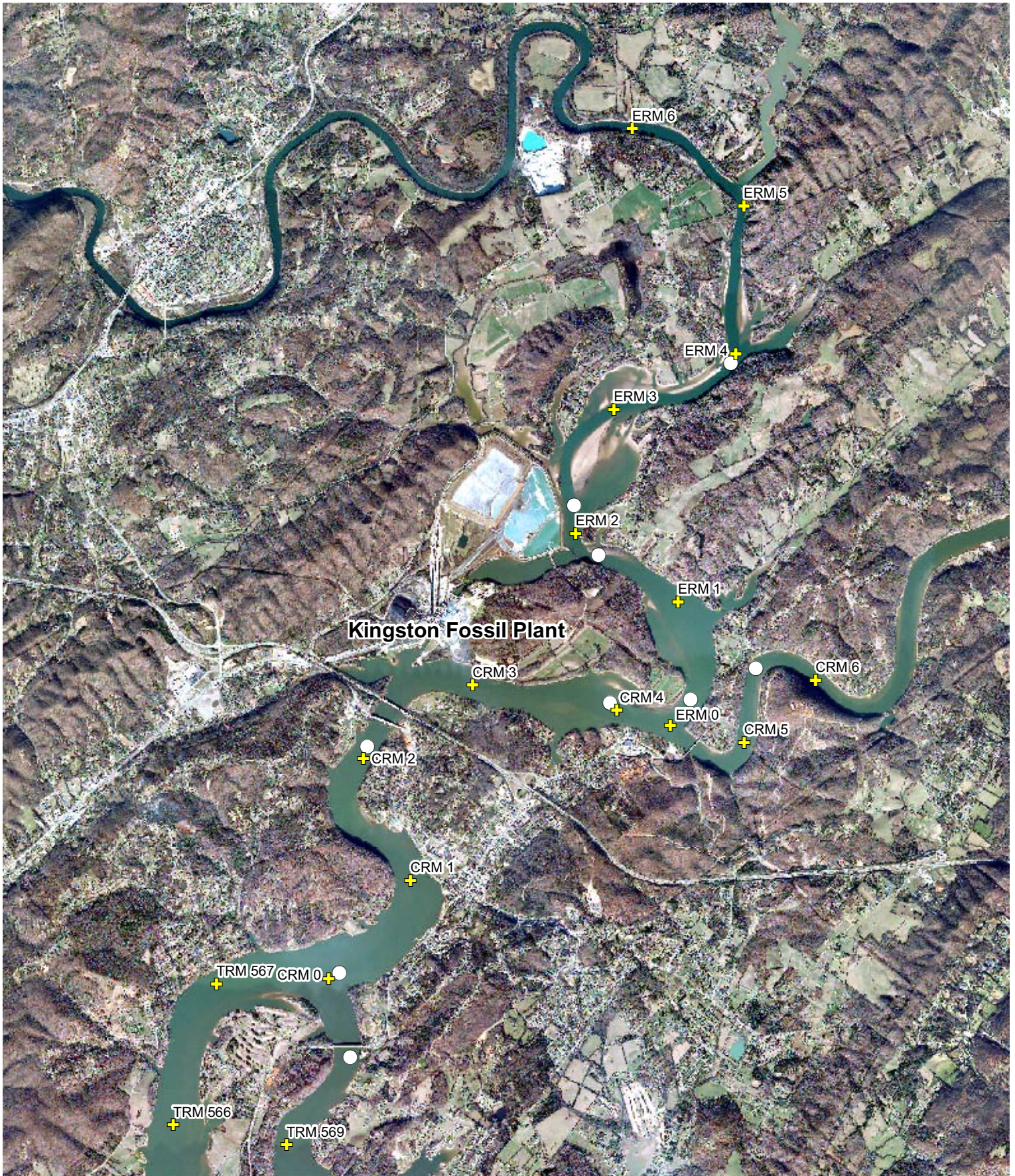
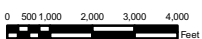


TVA River Sampling on January 7, 2009



Kingston Fossil Plant



Legend

- - TVA River Sampling Locations
- CRM - Clinch River Mile
- ERM - Emory River Mile
- TRM - Tennessee River Mile





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Date Received 1/7/2009
Cust P.O.
Invoice No. 62735
Cust # T060
Sample Date 1/7/2009
Permit No.

Work Order Number: 0901-00130

Subject: KINGSTON FOSSIL PLANT

Table with 8 columns: Test, Method, Result, Qual, Date, Time, Tech. Row 001: KIF-TRM 568.5-SW-010709 01/07/09 1142. Lists various metals and their concentrations.

002 KIF-TRM 568.5-SW-010709 01/07/09 1142 DISSOLVED METALS

Table with 8 columns: Test, Method, Result, Qual, Date, Time, Tech. Row 002: DISSOLVED METALS. Lists Silver, Aluminum, and Arsenic concentrations.





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002 KIF-TRM 568.5-SW-010709 01/07/09 1142 DISSOLVED METALS
.....continued

Table with 7 columns: Test, Method, Result, Qual, Date, Time, Tech. Lists various metals and their concentrations.

003 KIF-CRM 0.0-SW-010709 01/07/09 1200

Table with 7 columns: Test, Method, Result, Qual, Date, Time, Tech. Lists various metals and their concentrations.





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Test Method Result Qual Date Time Tech

003 KIF-CRM 0.0-SW-010709 01/07/09 1200
.....continued

Table with 7 columns: Test, Method, Result, Qual, Date, Time, Tech. Rows include COBALT, CHROMIUM, COPPER, IRON, MERCURY, MAGNESIUM, MANGANESE, NICKEL, LEAD, ANTIMONY, SELENIUM, THALLIUM, ZINC, BORON, TIN, TITANIUM, MOLYBDENUM, ALKALINITY AS CaCO3.

004 KIF-CRM 0.0-SW-010709 01/07/09 1200 DISSOLVED METALS

Table with 7 columns: Test, Method, Result, Qual, Date, Time, Tech. Rows include [TAL METALS, ICP], SILVER, ALUMINUM, ARSENIC, BARIUM, BERYLLIUM, CADMIUM, COBALT, CHROMIUM, COPPER, IRON, MERCURY.





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Test Method Result Qual Date Time Tech

004 KIF-CRM 0.0-SW-010709 01/07/09 1200 DISSOLVED METALS
.....continued

Table with 7 columns: Test, Method, Result, Qual, Date, Time, Tech. Rows include MAGNESIUM, MANGANESE, NICKEL, LEAD, ANTIMONY, SELENIUM, THALLIUM, ZINC, BORON, TIN, TITANIUM, MOLYBDENUM, SILICA (SiO2).

005 KIF-CRM 2.0-SW-010709 01/07/09 1215

Table with 7 columns: Test, Method, Result, Qual, Date, Time, Tech. Rows include SOLIDS, TOTAL SUSPENDED, HARDNESS, TOTAL AS CaCO3, [TAL METALS, ICP], SILVER, ALUMINUM, ARSENIC, BARIUM, BERYLLIUM, CADMIUM, COBALT, CHROMIUM, COPPER, IRON, MERCURY, MAGNESIUM, MANGANESE, NICKEL.





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Test Method Result Qual Date Time Tech

005 KIF-CRM 2.0-SW-010709 01/07/09 1215
.....continued

Table with 7 columns: Test, Method, Result, Qual, Date, Time, Tech. Rows include LEAD, ANTIMONY, SELENIUM, THALLIUM, ZINC, BORON, TIN, TITANIUM, MOLYBDENUM, ALKALINITY AS CaCO3.

006 KIF-CRM 2.0-SW-010709 01/07/09 1215 DISSOLVED METALS

Table with 7 columns: Test, Method, Result, Qual, Date, Time, Tech. Rows include [TAL METALS, ICP], SILVER, ALUMINUM, ARSENIC, BARIUM, BERYLLIUM, CADMIUM, COBALT, CHROMIUM, COPPER, IRON, MERCURY, MAGNESIUM, MANGANESE, NICKEL, LEAD, ANTIMONY, SELENIUM, THALLIUM, ZINC.





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Test Method Result Qual Date Time Tech

006 KIF-CRM 2.0-SW-010709 01/07/09 1215 DISSOLVED METALS
.....continued

Table with 7 columns: Test, Method, Result, Qual, Date, Time, Tech. Rows include BORON, TIN, TITANIUM, MOLYBDENUM, SILICA (SiO2).

007 KIF-CRM 4.0-SW-010709 01/07/09 1228

Table with 7 columns: Test, Method, Result, Qual, Date, Time, Tech. Rows include SOLIDS, TOTAL SUSPENDED, HARDNESS, TOTAL AS CaCO3, [TAL METALS, ICP], SILVER, ALUMINUM, ARSENIC, BARIUM, BERYLLIUM, CADMIUM, COBALT, CHROMIUM, COPPER, IRON, MERCURY, MAGNESIUM, MANGANESE, NICKEL, LEAD, ANTIMONY, SELENIUM, THALLIUM, ZINC, BORON, TIN, TITANIUM.





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Table with 8 columns: Test, Method, Result, Qual, Date, Time, Tech. Row 007: KIF-CRM 4.0-SW-010709 01/07/09 1228

Table with 8 columns: Test, Method, Result, Qual, Date, Time, Tech. Rows: MOLYBDENUM, ALKALINITY AS CaCO3

008 KIF-CRM 4.0-SW-010709 01/07/09 1228 DISSOLVED METALS

Table with 8 columns: Test, Method, Result, Qual, Date, Time, Tech. Rows: [TAL METALS, ICP], SILVER, ALUMINUM, ARSENIC, BARIUM, BERYLLIUM, CADMIUM, COBALT, CHROMIUM, COPPER, IRON, MERCURY, MAGNESIUM, MANGANESE, NICKEL, LEAD, ANTIMONY, SELENIUM, THALLIUM, ZINC, BORON, TIN, TITANIUM, MOLYBDENUM, SILICA (SiO2)

009 KIF-CRM 5.5-SW-010709 01/07/09 1250





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Test	Method	Result	Qual	Date	Time	Tech
009 KIF-CRM 5.5-SW-010709 01/07/09 1250						
SOLIDS, TOTAL SUSPENDED	SM 2540,D.	28.0 MG/L		1/9/2009	10:50	KLD
HARDNESS, TOTAL AS CaCO3	EPA 200.7;2340,B.	134 MG/L		1/9/2009	0:48	JKD
[TAL METALS, ICP]				1/9/2009	0:48	JKD
SILVER	EPA 200.7	<0.005 MG/L		1/9/2009	0:48	JKD
ALUMINUM	EPA 200.7	0.65 MG/L		1/9/2009	0:48	JKD
ARSENIC	EPA 200.7	0.0005 MG/L		1/9/2009	0:48	JKD
BARIUM	EPA 200.7	0.040 MG/L		1/9/2009	0:48	JKD
BERYLLIUM	EPA 200.7	0.0001 MG/L		1/9/2009	0:48	JKD
CADMIUM	EPA 200.7	<0.00005 MG/L		1/9/2009	0:48	JKD
COBALT	EPA 200.7	0.0004 MG/L		1/9/2009	0:48	JKD
CHROMIUM	EPA 200.7	<0.001 MG/L		1/9/2009	0:48	JKD
COPPER	EPA 200.7	0.002 MG/L		1/9/2009	0:48	JKD
IRON	EPA 200.7	0.67 MG/L		1/9/2009	0:48	JKD
MERCURY	EPA 245.1	<0.0002 MG/L		1/9/2009	10:33	PAP
MAGNESIUM	EPA 200.7	11.7 MG/L		1/9/2009	0:48	JKD
MANGANESE	EPA 200.7	0.053 MG/L		1/9/2009	0:48	JKD
NICKEL	EPA 200.7	0.001 MG/L		1/9/2009	0:48	JKD
LEAD	EPA 200.7	<0.001 MG/L		1/9/2009	0:48	JKD
ANTIMONY	EPA 200.7	0.0005 MG/L		1/9/2009	0:48	JKD
SELENIUM	EPA 200.7	<0.0005 MG/L		1/9/2009	0:48	JKD
THALLIUM	EPA 200.7	<0.0005 MG/L		1/9/2009	0:48	JKD
ZINC	EPA 200.7	0.008 MG/L		1/9/2009	0:48	JKD
BORON	EPA 200.7	0.018 MG/L		1/9/2009	0:48	JKD
TIN	EPA 200.7	<0.0005 MG/L		1/9/2009	0:48	JKD
TITANIUM	EPA 200.7	0.007 MG/L		1/9/2009	0:48	JKD
MOLYBDENUM	EPA 200.7	0.0006 MG/L		1/9/2009	0:48	JKD
ALKALINITY AS CaCO3	SM 2320,B.	99.0 MG/L		1/8/2009	16:52	KLD

010 KIF-CRM 5.5-SW-010709 01/07/09 1250 DISSOLVED METALS

[TAL METALS, ICP]				1/9/2009	0:48	JKD
SILVER	EPA 200.7	<0.005 MG/L		1/9/2009	0:48	JKD
ALUMINUM	EPA 200.7	0.020 MG/L		1/9/2009	0:48	JKD
ARSENIC	EPA 200.7	0.0003 MG/L		1/9/2009	0:48	JKD





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Subject: KINGSTON FOSSIL PLANT

Test Method Result Qual Date Time Tech

010 KIF-CRM 5.5-SW-010709 01/07/09 1250 DISSOLVED METALS
.....continued

Table with 7 columns: Test, Method, Result, Qual, Date, Time, Tech. Lists various metals and their concentrations.

011 KIF-ERM 0.1-SW-010709 01/07/09 1233

Table with 7 columns: Test, Method, Result, Qual, Date, Time, Tech. Lists solids, hardness, and other parameters.





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011 KIF-ERM 0.1-SW-010709 01/07/09 1233
.....continued

Table with 7 columns: Test, Method, Result, Qual, Date, Time, Tech. Rows include COBALT, CHROMIUM, COPPER, IRON, MERCURY, MAGNESIUM, MANGANESE, NICKEL, LEAD, ANTIMONY, SELENIUM, THALLIUM, ZINC, BORON, TIN, TITANIUM, MOLYBDENUM, ALKALINITY AS CaCO3.

012 KIF-ERM 0.1-SW-010709 01/07/09 1233 DISSOLVED METALS

Table with 7 columns: Test, Method, Result, Qual, Date, Time, Tech. Rows include [TAL METALS, ICP], SILVER, ALUMINUM, ARSENIC, BARIUM, BERYLLIUM, CADMIUM, COBALT, CHROMIUM, COPPER, IRON, MERCURY.





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012 KIF-ERM 0.1-SW-010709 01/07/09 1233 DISSOLVED METALS
.....continued

Table with 7 columns: Test, Method, Result, Qual, Date, Time, Tech. Rows include MAGNESIUM, MANGANESE, NICKEL, LEAD, ANTIMONY, SELENIUM, THALLIUM, ZINC, BORON, TIN, TITANIUM, MOLYBDENUM, SILICA (SiO2).

013 KIF-ERM 1.75-SW-010709 01/07/09 1225

Table with 7 columns: Test, Method, Result, Qual, Date, Time, Tech. Rows include SOLIDS, TOTAL SUSPENDED, HARDNESS, TOTAL AS CaCO3, [TAL METALS, ICP], SILVER, ALUMINUM, ARSENIC, BARIUM, BERYLLIUM, CADMIUM, COBALT, CHROMIUM, COPPER, IRON, MERCURY, MAGNESIUM, MANGANESE, NICKEL.





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Test Method Result Qual Date Time Tech

013 KIF-ERM 1.75-SW-010709 01/07/09 1225
.....continued

Table with 7 columns: Test, Method, Result, Qual, Date, Time, Tech. Rows include LEAD, ANTIMONY, SELENIUM, THALLIUM, ZINC, BORON, TIN, TITANIUM, MOLYBDENUM, ALKALINITY AS CaCO3.

014 KIF-ERM 1.75-SW-010709 01/07/09 1225 DISSOLVED METALS

Table with 7 columns: Test, Method, Result, Qual, Date, Time, Tech. Rows include TAL METALS, ICP, SILVER, ALUMINUM, ARSENIC, BARIUM, BERYLLIUM, CADMIUM, COBALT, CHROMIUM, COPPER, IRON, MERCURY, MAGNESIUM, MANGANESE, NICKEL, LEAD, ANTIMONY, SELENIUM, THALLIUM, ZINC.





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014 KIF-ERM 1.75-SW-010709 01/07/09 1225 DISSOLVED METALS
.....continued

Table with 7 columns: Test, Method, Result, Qual, Date, Time, Tech. Rows include BORON, TIN, TITANIUM, MOLYBDENUM, SILICA (SiO2).

015 KIF-ERM 2.1-SW-010709 01/07/09 1216

Table with 7 columns: Test, Method, Result, Qual, Date, Time, Tech. Rows include SOLIDS, TOTAL SUSPENDED, HARDNESS, TOTAL AS CaCO3, [TAL METALS, ICP], SILVER, ALUMINUM, ARSENIC, BARIUM, BERYLLIUM, CADMIUM, COBALT, CHROMIUM, COPPER, IRON, MERCURY, MAGNESIUM, MANGANESE, NICKEL, LEAD, ANTIMONY, SELENIUM, THALLIUM, ZINC, BORON, TIN, TITANIUM.





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015 KIF-ERM 2.1-SW-010709 01/07/09 1216
.....continued

Table with 7 columns: Test, Method, Result, Qual, Date, Time, Tech. Rows include MOLYBDENUM and ALKALINITY AS CaCO3.

016 KIF-ERM 2.1-SW-010709 01/07/09 1216 DISSOLVED METALS

Table with 7 columns: Test, Method, Result, Qual, Date, Time, Tech. Rows include various metals like SILVER, ALUMINUM, ARSENIC, etc.

017 KIF-ERM 4.0-SW-010709 01/07/09 1159





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CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · CONSUMER PRODUCTS
 WATER · AIR · WASTES · FOOD · PHARMACEUTICALS · NUTRACEUTICALS

CERTIFICATE OF ANALYSIS

TENNESSEE VALLEY AUTHORITY
 400 WEST SUMMIT HILL DRIVE
 KNOXVILLE, TN 37902

Date Reported 1/10/2009
 Date Received 1/7/2009
 Cust P.O.
 Invoice No. 62735
 Cust # T060
 Sample Date 1/7/2009
 Permit No.

Work Order Number: 0901-00130

Subject: KINGSTON FOSSIL PLANT

Test	Method	Result	Qual	Date	Time	Tech
017 KIF-ERM 4.0-SW-010709 01/07/09 1159						
SOLIDS, TOTAL SUSPENDED	SM 2540,D.	244 MG/L		1/8/2009	15:25	KLD
HARDNESS, TOTAL AS CaCO3	EPA 200.7;2340,B.	29.6 MG/L		1/9/2009	0:48	JKD
[TAL METALS, ICP]				1/9/2009	0:48	JKD
SILVER	EPA 200.7	<0.005 MG/L		1/9/2009	0:48	JKD
ALUMINUM	EPA 200.7	9.32 MG/L		1/9/2009	0:48	JKD
ARSENIC	EPA 200.7	0.018 MG/L		1/9/2009	0:48	JKD
BARIUM	EPA 200.7	0.13 MG/L		1/9/2009	0:48	JKD
BERYLLIUM	EPA 200.7	0.001 MG/L		1/9/2009	0:48	JKD
CADMIUM	EPA 200.7	0.00006 MG/L		1/9/2009	0:48	JKD
COBALT	EPA 200.7	0.006 MG/L		1/9/2009	0:48	JKD
CHROMIUM	EPA 200.7	0.008 MG/L		1/9/2009	0:48	JKD
COPPER	EPA 200.7	0.017 MG/L		1/9/2009	0:48	JKD
IRON	EPA 200.7	5.82 MG/L		1/9/2009	0:48	JKD
MERCURY	EPA 245.1	<0.0002 MG/L		1/9/2009	10:33	PAP
MAGNESIUM	EPA 200.7	2.58 MG/L		1/9/2009	0:48	JKD
MANGANESE	EPA 200.7	0.22 MG/L		1/9/2009	0:48	JKD
NICKEL	EPA 200.7	0.013 MG/L		1/9/2009	0:48	JKD
LEAD	EPA 200.7	0.009 MG/L		1/9/2009	0:48	JKD
ANTIMONY	EPA 200.7	<0.0005 MG/L		1/9/2009	0:48	JKD
SELENIUM	EPA 200.7	<0.001 MG/L		1/9/2009	0:48	JKD
THALLIUM	EPA 200.7	0.002 MG/L		1/9/2009	0:48	JKD
ZINC	EPA 200.7	0.031 MG/L		1/9/2009	0:48	JKD
BORON	EPA 200.7	0.020 MG/L		1/9/2009	0:48	JKD
TIN	EPA 200.7	<0.0005 MG/L		1/9/2009	0:48	JKD
TITANIUM	EPA 200.7	0.28 MG/L		1/9/2009	0:48	JKD
MOLYBDENUM	EPA 200.7	0.0008 MG/L		1/9/2009	0:48	JKD
ALKALINITY AS CaCO3	SM 2320,B.	10.0 MG/L		1/8/2009	16:52	KLD

018 KIF-ERM 4.0-SW-010709 01/07/09 1159 DISSOLVED METALS

[TAL METALS, ICP]				1/9/2009	0:48	JKD
SILVER	EPA 200.7	<0.005 MG/L		1/9/2009	0:48	JKD
ALUMINUM	EPA 200.7	0.053 MG/L		1/9/2009	0:48	JKD
ARSENIC	EPA 200.7	0.0008 MG/L		1/9/2009	0:48	JKD





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Test Method Result Qual Date Time Tech

018 KIF-ERM 4.0-SW-010709 01/07/09 1159 DISSOLVED METALS
.....continued

Table with 7 columns: Test, Method, Result, Qual, Date, Time, Tech. Lists various metals and their concentrations.

019 KIF-ERM 4.0-SW-D-010709 01/07/09 1159

Table with 7 columns: Test, Method, Result, Qual, Date, Time, Tech. Lists various parameters and their concentrations.





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019 KIF-ERM 4.0-SW-D-010709 01/07/09 1159
.....continued

Table with 7 columns: Test, Method, Result, Qual, Date, Time, Tech. Rows include COBALT, CHROMIUM, COPPER, IRON, MERCURY, MAGNESIUM, MANGANESE, NICKEL, LEAD, ANTIMONY, SELENIUM, THALLIUM, ZINC, BORON, TIN, TITANIUM, MOLYBDENUM, ALKALINITY AS CaCO3.

020 KIF-ERM 4.0-SW-D-010709 01/07/09 1159 DISSOLVED METALS

Table with 7 columns: Test, Method, Result, Qual, Date, Time, Tech. Rows include [TAL METALS, ICP], SILVER, ALUMINUM, ARSENIC, BARIUM, BERYLLIUM, CADMIUM, COBALT, CHROMIUM, COPPER, IRON, MERCURY.





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020 KIF-ERM 4.0-SW-D-010709 01/07/09 1159 DISSOLVED METALS
.....continued

Table with 7 columns: Test, Method, Result, Qual, Date, Time, Tech. Rows include MAGNESIUM, MANGANESE, NICKEL, LEAD, ANTIMONY, SELENIUM, THALLIUM, ZINC, BORON, TIN, TITANIUM, MOLYBDENUM, SILICA (SiO2).

021 KIF-BB-010709 01/07/09 1505

Table with 7 columns: Test, Method, Result, Qual, Date, Time, Tech. Rows include SOLIDS, TOTAL SUSPENDED, HARDNESS, TOTAL AS CaCO3, [TAL METALS, ICP], SILVER, ALUMINUM, ARSENIC, BARIUM, BERYLLIUM, CADMIUM, COBALT, CHROMIUM, COPPER, IRON, MERCURY, MAGNESIUM, MANGANESE, NICKEL.





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021 KIF-BB-010709 01/07/09 1505
.....continued

Table with 7 columns: Test, Method, Result, Qual, Date, Time, Tech. Rows include LEAD, ANTIMONY, SELENIUM, THALLIUM, ZINC, BORON, TIN, TITANIUM, MOLYBDENUM, ALKALINITY AS CaCO3.

022 KIF-BB-010709 01/07/09 1505 DISSOLVED METALS

Table with 7 columns: Test, Method, Result, Qual, Date, Time, Tech. Rows include TAL METALS, ICP, SILVER, ALUMINUM, ARSENIC, BARIUM, BERYLLIUM, CADMIUM, COBALT, CHROMIUM, COPPER, IRON, MERCURY, MAGNESIUM, MANGANESE, NICKEL, LEAD, ANTIMONY, SELENIUM, THALLIUM, ZINC.





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022 KIF-BB-010709 01/07/09 1505 DISSOLVED METALS
.....continued

Table with 7 columns: Test, Method, Result, Qual, Date, Time, Tech. Rows include BORON, TIN, TITANIUM, MOLYBDENUM, SILICA (SiO2) with their respective EPA methods and results.

RESPECTFULLY SUBMITTED: _____
MICROBAC LABORATORIES, INC.

Thank you for your business. We invite your feedback on our level of service to you. Please contact the Laboratory Director, James Nokes, at 865-977-1200, the COO, Robert Morgan, at rmorgan@microbac.com or the CEO, Trevor Boyce, at tboyce@microbac.com with any comments or suggestions.





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QUALIFIER DEFINITIONS:

- B = Detected in the associated Method Blank
C = As Tons CaCO3, equivalent per 1,000 tons material
D = Surrogate recoveries not calculated due to matrix interference and resulting sample dilution
E1 = Elevated detection limits due to sample matrix interference
E2 = Elevated detection limits due to high analyte concentration
H = Analyte was prepared and/or analyzed outside of the analytical method holding time
I = Spike recovery outside control limits due to sample matrix interference or high analyte concentration
J1 = Value below quantitation range
J2 = Value above quantitation range
K = Inter-element correction applied due to high concentration of non-target analyte
L1 = Liquid portion of dual phase sample analyzed only
L2 = Solid portion of dual phase sample analyzed only
M = Miscellaneous (see entry below analytical results)
P = Sample received improperly preserved
R = Relative Percent Duplicate (RPD) outside accepted recovery limits
S1 = Spike recovery outside recovery limits
S2 = Surrogate recovery outside of control limits. The data was accepted based on the valid recovery of remaining surrogate.
U = Undetected
V = Elevated reporting limits due to insufficient sample volume
W = Results reports on dry weight basis

ABBREVIATIONS:

- TNTC = Too Numerous To Count
UG/L = Micrograms per Liter (PPB)
UG/KG = Micrograms per Kilogram (PPB)
MG/L = Milligrams per Liter (PPM)
Positive = Bacteria or target analyte detected
MG/KG = Milligrams per Kilogram (PPM)
CFU = Colony Forming Unit
ND = Not Detected at or below the reporting limit
TIC = Tentatively Identified Compound
Negative = Bacteria or target analyte not detected

