WATERS EDGE ENVIRONMENTAL, LLC
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November 11, 2008

Ms. Mary Siedlecki
North Carolina Department of Environment
and Natural Resources
Hazardous Waste Section
Post Office Box 27687
Raleigh, North Carolina 27611-7687

Received
NOV 2008
Hazardous
Waste Section

Reference: September 2008 Semiannual Ground Water Monitoring Report
Porcelanite, Inc.
Lexington, North Carolina
Waters Edge Job No. R1-21

Dear Ms. Siedlecki:

Porcelanite, Inc. (Porcelanite) has completed the September 2008 semiannual ground water assessment for the Porcelanite facility located in Lexington, North Carolina (see Figures 1 and 2). Based on the most recently approved Sampling & Analysis Plan, monitoring wells MW-1, MW-9, MW-12, MW-22A, MW-26A-2, and MW-28 were sampled on September 17th, 2008. Based upon the most recently approved Sampling and Analysis Plan, these wells were sampled for boron, cadmium, cobalt, chromium, lead, manganese and zinc. We have tabulated the results below and attached the laboratory data sheets.

September 17, 2008 Ground Water Sampling Results
Porcelanite- Lexington, North Carolina

Parameter	Quantitation Limit *(mg/L)*	MW-1	MW-9(D)	MW-12(D)	MW-22A	MW-26A-2	MW-28(D)	NCGS
Boron	0.100	0.288	**0.738**	**1.35**	**5.3**	**64.3**	0.186	0.315
Cadmium	0.005	BQL	BQL	BQL	BQL	BQL	BQL	0.00175
Cobalt	0.025	**0.042**	BQL	BQL	BQL	BQL	BQL	NS
Chromium	0.010	BQL	BQL	BQL	0.031	BQL	0.016	0.05
Lead	0.005	0.009	0.006	BQL	0.015	0.008	BQL	0.015
Manganese	0.010	0.034	**0.160**	**0.243**	**0.310**	**1.66**	0.043	0.05
Zinc	0.02	0.231	1.01	**1.33**	0.028	0.233	0.140	1.05

NCGS- North Carolina Groundwater Standard (bolded numbers exceed standard)
BQL-Below Quantitation Limits
NS- No Standard

attachments *08-156/PLR/aht*

There were several wells which had North Carolina Groundwater Standard (NCGS) exceedances for boron (MW-9, MW-12, MW-22A and MW-26A-2), manganese (MW-9, MW-12, MW-22A and MW26A-2) and zinc (MW-12). Cobalt has no NCGS, therefore the standard defaults to the detection limit with exceedances of the detection limit found at MW-1 (upgradient well for the site). We have included water table elevations in Table 1 and a shallow ground water contour map in Figure 2 which has a similar northeastern flow direction as all previous ground water contour maps.

The trip blank and field blank were BQL indicating adequate QA/QC by the samplers and the laboratory.

If you have any questions regarding this report or require additional information, please call me at 919.859.9987.

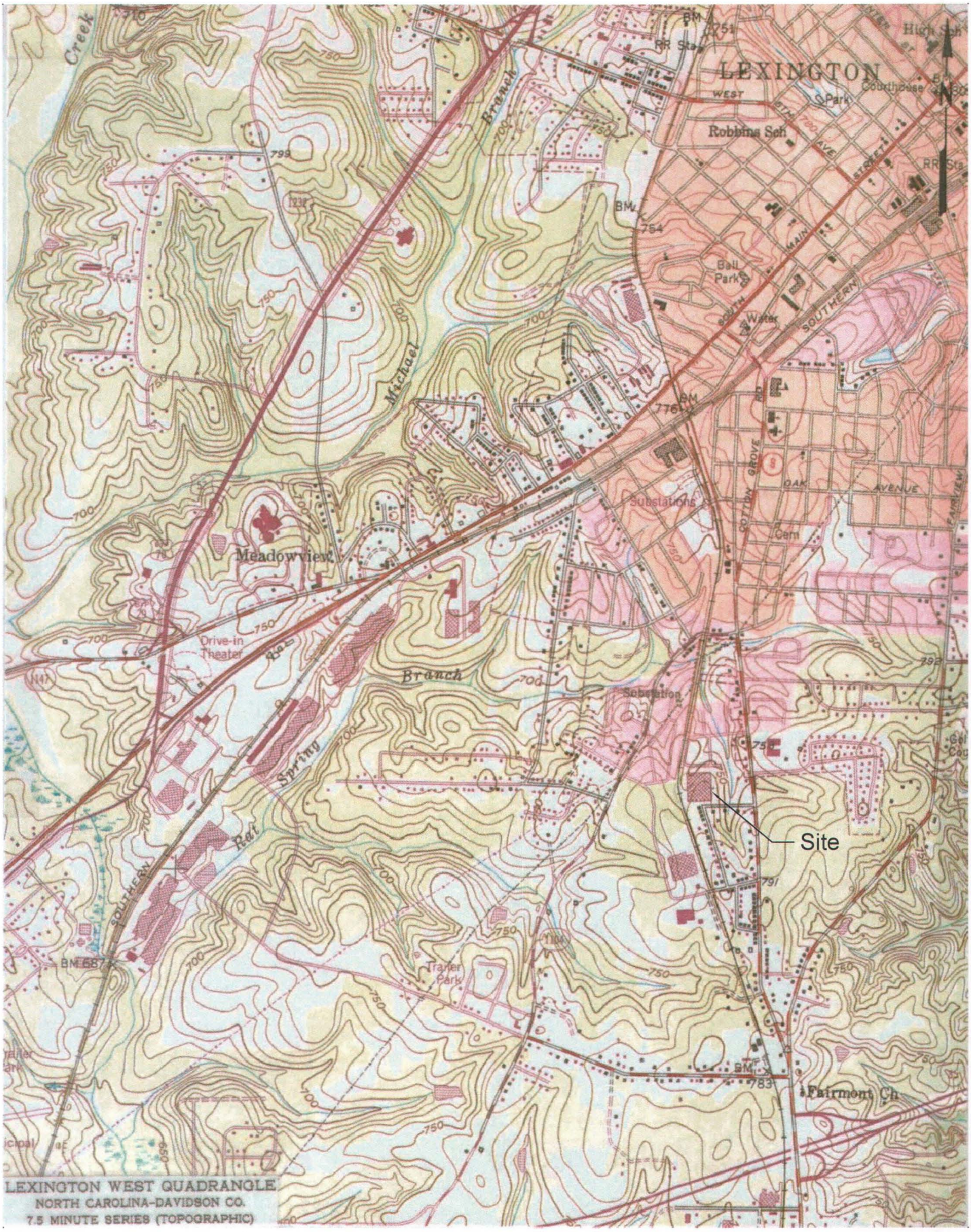
Sincerely,

WATERS EDGE ENVIRONMENTAL, LLC

Phillip L. Rahn, P.G.
President

cc: Mr. Tony Shaw – Porcelanite, Inc., Lexington, North Carolina

08-156



	Author	Drawing	Layers	Date	Title
WATERS EDGE ENVIRONMENTAL, LLC	jme	R1-21		1-24-01	Project Location Map
	Job No.	Revision	Figure	Scale	Project
	R1-21	11-1-02	1	1"=2000'	Porcelanite, Inc. Lexington, North Carolina

Table 1
Porcelanite, Inc.
September 2008 Ground Water Monitoring Well Data

Monitoring Well Identification	Top of Casing Elevation	Water Level Reading (9.17.08)	Ground Water Elevation	Pump Intake Elevation
MW-1	769.71	15.42	754.29	749.41
MW-9 (D)	749.79	19.41	730.38	699.97
MW-12 (D)	749.59	17.01	732.58	727.8
MW-22A	753.25	16.44	736.81	730.73
MW-26A-2	749.44	19.08	730.36	722.44
MW-28 (D)	749.39	20.68	728.71	669.72

D = Deep Well
Ground surface datum collected on May 15, 199, August 2000 and September 2008
Waters Edge Environmental Job No. R1-21

Research & Analytical Laboratories, Inc.

Analytical/Process Consultations

RESEARCH & ANALYTICAL LABS
SIDNEY L. CHAMPION
NC #34
DIRECTOR
CERTIFIED ANALYSIS

October 23, 2008

Water's Edge Environmental
4901 Waters Edge Drive Suite 201
Raleigh, NC 27606
Attention: Phil Rahn

Chemical Analysis for the Semi-annual Groundwater Monitoring Wells Identified as Porcelanite R1-21, collected 17 September 2008

I.	Project Number: R1-21			Project Name: Porcelanite						
	Miscellaneous Parameters	Quantitation Limit (mg/L)	MW-1 (mg/L)	MW-22A (mg/L)	MW-26A-2 (mg/L)	MW-9 (mg/L)	MW-12 (mg/L)	MW-28 (mg/L)	Trip Blank (mg/L)	Field Blank (mg/L)
	Boron, Total	0.100	**0.288**	**5.30**	**64.3**	**0.738**	**1.35**	**0.186**	BQL	BQL
	Cobalt, Total	0.025	**0.042**	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	Lead, Total	0.005	**0.009**	**0.015**	**0.008**	**0.006**	BQL	BQL	BQL	BQL
	Chromium, Total	0.010	BQL	**0.031**	BQL	BQL	BQL	**0.024**	BQL	BQL
	Zinc, Total	0.020	**0.231**	**0.028**	**0.223**	**1.01**	**1.33**	**0.140**	BQL	BQL
	Manganese, Total	0.010	**0.034**	**0.310**	**1.66**	**0.160**	**0.243**	**0.043**	BQL	BQL
	Cadmium, Total	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	Sample Number		626867	626868	626869	626870	626871	626872	626873	626874
	Sample Date		09/17/08	09/17/08	09/17/08	09/17/08	09/17/08	09/17/08	09/17/08	09/17/08
	Sample Time		1030	1130	1300	1445	1400	1500	1245	1250

Analyst: SK

BQL = Below Quantitation Limit
mg/L = milligrams per Liter = parts per million (PPM)
NR = Not Requested

MDL - Method Detection Limit

Research & Analytical Laboratories, Inc.

Analytical/Process Consultations

RESEARCH & ANALYTICAL LABS. SIDNEY L. CHAMPION NC #34 DIRECTOR CERTIFIED ANALYSIS

Quality Control Summary Results for Project Identified as Porcelanite, Inc.
(A Water's Edge Environmental Project #R1-21, collected 17 September 2008)

Parameter	Prep Blank	ICV % Recovery	CCV % Recovery	LCS % Recovery	Spike % Recovery	Duplicate % Difference
Boron, Total	BDL	101	104/102	94	113	4
Zinc, Total	0.036	102	97/96	99	93	1
Lead, Total	BDL	101	98/96	94	91	0
Manganese, Total	BDL	101	98/98	97	99	0
Cobalt, Total	BDL	98	97/96	96	90	1
Chromium, Total	BDL	94	97/98	96	92	1
Cadmium, Total	BDL	100	97/96	96	91	1

COMMENTS:

Corresponding Sample Numbers: 626867-74

% = Percent

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

LCS = Laboratory Control Sample

N/A = Not Applicable

RESEARCH & ANALYTICAL LABORATORIES, INC.

Analytical / Process Consultations
Phone (336) 996-2841

CHAIN OF CUSTODY RECORD

COMPANY: WATERS EDGE ENV.
JOB NO.: R1-21
STREET ADDRESS: 4901 WATERS EDGE Dr. Ste 201
PROJECT: PORCELANITE
CITY, STATE, ZIP: Raleigh, N.C. 27606
SAMPLER NAME (PLEASE PRINT): Thomas Haynes
CONTACT: Phil Rohn
PHONE: 919-859-9987
SAMPLER SIGNATURE: Thomas F. Haynes

WATER / WASTEWATER | MISC.

SAMPLE NUMBER (LAB USE ONLY)	DATE	TIME	COMP	GRAB	TEMP °C	RES Cl	CHLORINE REMOVED (Y or N)	SAMPLE MATRIX (S or W)	SAMPLE LOCATION / I.D.	NO. OF CONTAINERS	2L G (BNA, Herb. / Pest.)	2 40ml Vials (VOA) HCL	250ml G (TOX)	250ml P (TOC) H_2SO_4	1L P.G (BOD, TSS, Unpreserved, etc.)	1L G (Phenol, Oil & Grease) H_2SO_4	1L P.G (COD, N, P) H_2SO_4	1L P.G (Metals, Hardness) HNO_3	1L P.G (CYANIDE) NaOH	Sterile P.G (Coliform)	REQUESTED ANALYSIS
U26847	~~3/18/08~~	1030		✓				W	MW-1	1							✓				* METALS
848	~~3/18/08~~	1130		✓				W	MW-22A	1							✓				
869	~~3/18/08~~	1300		✓				W	MW-26A-2	1							✓				
870	~~3/18/08~~	1445		✓				W	MW-9	1							✓				
871	~~3/18/08~~	1400		✓				W	MW-12	1							✓				
872	~~3/18/08~~	1500		✓				W	MW-28	1							✓				
873	~~3/18/08~~	1245		✓				W	TRIP BLANK	1							✓				
874	~~3/18/08~~	1250		✓				W	FIELD BLANK	1							✓				
	9/17/08																				

Sample collection date 9/17/08 per bottles (tag on)

RELINQUISHED BY	DATE/TIME	RECEIVED BY
Thomas Haynes	3/18/1535	[illegible]
RELINQUISHED BY	DATE/TIME	RECEIVED BY

REMARKS: * METALS TO. ... ium, Chromium, Cobalt, Lead

SAMPLE TEMPERATURE AT RECEIPT 3.0 °C ambient