S&ME

December 26, 1995

North Carolina DEHNR
Solid Waste Section
P.O. Box 27687
Raleigh, North Carolina 27611-7687

Attention: Mr. William R. Hocutt, Chemist

Reference: **NOTIFICATION FOR STRUCTURAL FILL FACILITY**
Proposed Beneficial Fill Area
Fieldcrest Cannon Ash Handling Facility
Kannapolis, North Carolina
S&ME Project No. 1356-95-133

Gentlemen:

As requested in your November 15, 1995 letter to S&ME regarding the above project, please find attached a Notification for Structural Fill Facility along with current TCLP data on the coal ash from the Kannapolis and Spencer plants.

If you should have any questions concerning this submittal, please contact us.

Sincerely,

S&ME, Inc.

Dan E. Brewer

Dan E. Brewer, P.E.
Senior Project Manager

cc: Ms. Jan McHargue, NCDEHNR

S&ME, Inc. 9751 Southern Pine Boulevard, Charlotte, North Carolina 28273, (704) 523-4726, Fax (704) 525-3953
Mailing address: P.O. Box 7668, Charlotte, North Carolina 28241-7668

Recycled Paper

NOTIFICATION FOR FIELDCREST CANNON, INC. BENEFICIAL FILL HANDLING FACILITY

Name of coal combustion by-products generator:	Fieldcrest Cannon, Inc.
Physical location of the generating facility:	Plant 1, Kannapolis, NC
Address of generator:	One Lake Circle Drive, Kannapolis, NC 28082
Name of contact for generator:	Battle Moore, Environmental Engineer
Telephone number of generator:	(704) 939-2654

I, Evander H. Rowell, consent and acknowledge to the use of coal ash as structural fill and agree to record the fill in accordance with rule .1707.

Signed Evander H. Rowell Fieldcrest Cannon, Inc.
Director of Environmental Engineering

Date 12/12/95

EnviroTech Mid-Atlantic Laboratories
1861 Pratt Dr. • Blacksburg, VA 24060
(703) 231-3983 • Fax (703) 231-3984

March 23, 1995

Client: ENSCI Environmental, Inc.
Post Office Box 80275
Raleigh, NC 27623-0275

Attention: Sherry MacQueen

Fax: 919-881-8205

Report #: 9281
Project: Fieldcrest Cannon Plant #1
P.O. #:

Date Received: 3/03/95
Project #: E148013

Sample Identification

Samples submitted and identified by client as:

Sample	Matrix	Field Identification	Date	Time Collected
9281	Soil	Fly Ash	3/01/95	11:30

All analyses were performed in accordance with EPA methods referenced in "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79 revised March 1983 and/or "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, 3rd Edition.

Project: Fieldcrest Cannon Plant #1

ENVIROTECH MID-ATLANTIC
March 23, 1995

Analysis	D/L	9281 Fly Ash
Total Metals (mg/kg)		
Arsenic (As)	0.033	2.0
Selenium (Se)	0.033	0.067
Total Metals by ICP (mg/kg)		
Cadmium (Cd)	0.17	0.66
Chromium (Cr)	0.17	5.1
Barium (Ba)	0.17	330
Calcium (Ca)	17	1,800
Copper (Cu)	0.17	39
Nickel (Ni)	0.33	9.6
Zinc (Zn)	0.17	14
Boron (B)	0.17	9.6
Molybdenum (Mo)	0.84	3.4
Strontium (Sr)	0.17	160
Sulfur (mg/kg)	10	2,100
Alkalinity for CO_3	not applicable based on pH of sample	
pH (pH units)	0.1	4.2

Sherry:

Fly ash pH is too low to do a valid alkalinity. If you have any questions, please do not hesitate to call me.

Thank you.

Cynthia Strader
QA/QC Coordinator

D/L - Detection Limit BDL - Below Detection Limit

Soil results are reported on a dry weight basis unless otherwise noted.

Project: Fieldcrest Cannon Plant #1

ENVIROTECH MID-ATLANTIC
March 23, 1995

Analysis	D/L	9281 Fly Ash
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Boron (B)	0.17	9.6
Molybdenum (Mo)	0.84	3.4
Strontium (Sr)	0.17	160
Sulfur (mg/kg)	10	2,100
Alkalinity for CO_3	not applicable based on pH of sample	
pH (pH units)	0.1	4.2

Sherry:

Fly ash pH is too low to do a valid alkalinity. If you have any questions, please do not hesitate to call me.

Thank you.

Cynthia Strader
QA/QC Coordinator

D/L - Detection Limit BDL - Below Detection Limit

Soil results are reported on a dry weight basis unless otherwise noted.

Project: Fieldcrest Cannon Plant #1

ENVIROTECH MID-ATLANTIC
March 23, 1995

Quality Control Data

Analysis	%STD	%Spike	%RD	EPA#	Analyst	Date Analyzed
Total Metals						
Arsenic (As)	90	100	4	206.2	S. Croy	3/14/95
Selenium (Se)	95	100	<1	270.2		
Total Metals by ICP				200.7	J. Reid	3/13/95
Cadmium (Cd)	100	95	<1			
Chromium (Cr)	97	98	<1			
Barium (Ba)	100	83	1			
Calcium (Ca)	99	95	<1			
Copper (Cu)	99	90	<1			
Nickel (Ni)	99	96	<1			
Zinc (Zn)	99	96	2			
Boron (B)	103	104	<1			
Molybdenum (Mo)	103	95	1			
Strontium (Sr)	100	101	2			
Sulfur	84		<1	SW846*	J. Reid	3/22/95
Alkalinity			<1	310.1	J. Reid	3/14/95
pH	100		<1	150.1	S. Peters	3/03/95

* SW846, 9020M, as per Dorhmann's instruments references.

Elizabeth J. Smiley
Laboratory Director

D/L - Detection Limit BDL - Below Detection Limit

Soil results are reported on a dry weight basis unless otherwise noted.

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

NCF

TCLP Test
For coal ash beneficial fill.

September 07, 1995

Mr. Battle Moore
Fieldcrest Cannon, Inc.
P. O. Box 107
Kannapolis, NC 28082

RE: PACE Project No. 650821.506
Client Reference: TCLP Analyses

Dear Mr. Moore:

Enclosed is the report of laboratory analyses for samples received August 21, 1995.

Footnotes are given at the end of the report.

If you have any questions concerning this report, please feel free to contact us.

Sincerely,

Clevecia Harris

Clevecia M. Harris
Project Manager

Enclosures

9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
TEL: 704-875-9092
FAX: 704-875-9091

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Fieldcrest Cannon, Inc.
P. O. Box 107
Kannapolis, NC 28082

September 07, 1995
PACE Project Number: 650821506

Attn: Mr. Battle Moore

Client Reference: TCLP Analyses

PACE Sample Number:			92 0457064	
Date Collected:			By Client	
Date Received:			08/21/95	
			Coal Ash	
Parameter	Units	MDL		DATE ANALYZED
INORGANIC ANALYSIS				
INDIVIDUAL PARAMETERS				
pH	Units	0.10	4.26 (1)	09/06/95

PACE Sample Number:			92 0457072	
Date Collected:			By Client	
Date Received:			08/21/95	
Client Sample ID:			Coal Ash	
Parameter	Units	MDL	(2)	DATE ANALYZED
INORGANIC ANALYSIS				
TCLP RCRA TOXICITY METALS				
Arsenic	mg/L	0.005	0.005	08/27/95
Barium	mg/L	0.010	0.229	09/01/95
Cadmium	mg/L	0.010	ND	09/01/95
Chromium	mg/L	0.010	ND	09/01/95
Lead	mg/L	0.10	ND	09/01/95
Mercury	mg/L	0.0002	ND	08/25/95
Selenium	mg/L	0.005	0.014	08/26/95
Silver	mg/L	0.005	ND	09/01/95

These data have been reviewed and are approved for release.

Charles M. Cabaniss
Manager, Inorganic Chemistry

9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
TEL: 704-875-9092
FAX: 704-875-9091

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REPORT OF LABORATORY ANALYSIS

Mr. Battle Moore
Page 2

FOOTNOTES
for page 1

September 07, 1995
PACE Project Number: 650821506

Client Reference: TCLP Analyses

MDL Method Detection Limit
ND Not detected at or above the MDL.
(1) 20gm to 20mls D.I. water.
(2) All analysis performed on Toxic Characteristic Leachate.

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REPORT OF LABORATORY ANALYSIS

Mr. Battle Moore
Page 3

QUALITY CONTROL DATA

September 07, 1995
PACE Project Number: 650821506

Client Reference: TCLP Analyses

Arsenic
Batch: 92 39456
Samples: 92 0457072

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Arsenic	mg/L	0.005	ND

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Arsenic	mg/L	0.005	0.040	98%

REPORT OF LABORATORY ANALYSIS

Mr. Battle Moore
Page 4

QUALITY CONTROL DATA

September 07, 1995
PACE Project Number: 650821506

Client Reference: TCLP Analyses

Mercury
Batch: 92 39327
Samples: 92 0457072

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Mercury	mg/L	0.0002	ND

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	920458290	Spike	Spike Recv	Spike Dupl Recv	RPD
Mercury	mg/L	0.0002	ND	0.0050	92%	112%	20%

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Mercury	mg/L	0.0002	0.0050	108%

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REPORT OF LABORATORY ANALYSIS

Mr. Battle Moore
Page 5

QUALITY CONTROL DATA

September 07, 1995
PACE Project Number: 650821506

Client Reference: TCLP Analyses

Selenium
Batch: 92 39459
Samples: 92 0457072

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Selenium	mg/L	0.005	ND

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Selenium	mg/L	0.005	0.040	110%

REPORT OF LABORATORY ANALYSIS

Mr. Battle Moore
Page 6

QUALITY CONTROL DATA

September 07, 1995
PACE Project Number: 650821506

Client Reference: TCLP Analyses

ICP QUALITY CONTROL
Batch: 92 39493
Samples: 92 0457072

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Nickel	mg/L	0.010	ND
Cadmium	mg/L	0.010	ND
Vanadium	mg/L	0.010	ND
Lead	mg/L	0.10	ND
Barium	mg/L	0.010	ND
Copper	mg/L	0.010	ND
Chromium	mg/L	0.010	ND
Beryllium	mg/L	0.010	ND
Zinc	mg/L	0.010	ND
Cobalt	mg/L	0.010	ND
Iron	mg/L	0.010	ND
Silver	mg/L	0.005	ND
Manganese	mg/L	0.010	ND
Aluminum	mg/L	0.010	ND
Calcium	mg/L	0.10	ND
Sodium	mg/L	0.10	ND
Potassium	mg/L	0.10	ND
Magnesium	mg/L	0.10	ND
Molybdenum	mg/L	0.020	ND

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Nickel	mg/L	0.010	1.0	92%
Cadmium	mg/L	0.010	1.0	88%
Vanadium	mg/L	0.010	1.0	87%
Lead	mg/L	0.10	1.0	89%
Barium	mg/L	0.010	1.0	96%
Copper	mg/L	0.010	1.0	93%
Chromium	mg/L	0.010	1.0	90%
Beryllium	mg/L	0.010	1.0	83%
Zinc	mg/L	0.010	1.0	91%

REPORT OF LABORATORY ANALYSIS

Mr. Battle Moore
Page 7

QUALITY CONTROL DATA

September 07, 1995
PACE Project Number: 650821506

Client Reference: TCLP Analyses

ICP QUALITY CONTROL
Batch: 92 39493
Samples: 92 0457072

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Cobalt	mg/L	0.010	1.0	92%
Iron	mg/L	0.010	1.0	95%
Silver	mg/L	0.005	0.10	104%
Manganese	mg/L	0.010	1.0	93%
Aluminum	mg/L	0.010	1.0	98%
Calcium	mg/L	0.10	10.0	94%
Sodium	mg/L	0.10	10.0	97%
Potassium	mg/L	0.10	10.0	97%
Magnesium	mg/L	0.10	10.0	86%
Molybdenum	mg/L	0.020	1.0	87%

REPORT OF LABORATORY ANALYSIS

Mr. Battle Moore
Page 8

FOOTNOTES
for pages 3 through 7

September 07, 1995
PACE Project Number: 650821506

Client Reference: TCLP Analyses

MDL	Method Detection Limit
ND	Not detected at or above the MDL.
RPD	Relative Percent Difference

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