ATTACHMENT SECTION C.6.,e

a. Have you contacted DEQ or the permitting authority in the state where the sewage sludge subject to the CPLRs will be applied to ascertain whether bulk sewage sludge subject to the CPLRs has been applied to this site since July 20, 1993? ___Yes ___No

If no, sewage sludge subject to the CPLRs may not be applied to this site.

If yes, provide the following information:

Permitting authority:

Contact person:

Phone:

b. Based upon this inquiry, has bulk sewage sludge subject to the CPLRs been applied to this site since July 20, 1993? Yes ___No If no, skip the rest of Question 6. If yes, answer questions c - e.

c. Site size, in hectares: _____ (one hectare = 2.471 acres)

d. Provide the following information for every facility other than yours that is sending or has sent sewage sludge subject to the CPLRs to this site since July 20, 1993. If more than one such facility sends sewage sludge to this site, attach additional pages as necessary.

Facility name:

Facility contact:

Title:

Phone:

Mailing address.

Street or P.O. Box:

City or Town:____ State:___ Zip:

e. Provide the total loading and allotment remaining, in kg/hectare, for each of the following pollutants:

	Cumulative loading	Allotment remaining
Arsenic	_____	
Cadmium	_____	**See Attachment Section C, 6., e.**
Copper	_____	
Lead	_____	
Mercury	_____	
Nickel	_____	
Selenium	_____	
Zinc	_____	

Complete Questions 7-12 below only if you apply sewage sludge, or you are responsible for land application of sewage sludge. Information required by these questions may be prepared as attachments to this form. Skip the following questions if you contract land application to someone else (as indicated under Section A.7) who is responsible for the operation.

7. Sludge Characterization. Use the table below or a separate attachment, provide at least one analysis for each parameter.

PCBs (mg/kg)
pH (S. U.)
Percent Solids (%)
Ammonium Nitrogen (mg/kg)
Nitrate Nitrogen (mg/kg)
Total Kjeldahl Nitrogen (mg/kg)
Total Phosphorus (mg/kg)
Total Potassium (mg/kg)
Alkalinity as $CaCO_3$* (mg/kg)

* Lime treated sludge (10% or more lime by dry weight) should be analyzed for percent $CaCO_3$. N/A

a. Have you contacted DEQ or the permitting authority in the state where the sewage sludge subject to the CPLRs will be applied to ascertain whether bulk sewage sludge subject to the CPLRs has been applied to this site since July 20, 1993? ___Yes ___No
If no, sewage sludge subject to the CPLRs may not be applied to this site.
If yes, provide the following information:
Permitting authority:
Contact person:
Phone:

b. Based upon this inquiry, has bulk sewage sludge subject to the CPLRs been applied to this site since July 20, 1993? Yes ___No If no, skip the rest of Question 6. If yes, answer questions c - e.

c. Site size, in hectares: _____ (one hectare = 2.471 acres)

d. Provide the following information for every facility other than yours that is sending or has sent sewage sludge subject to the CPLRs to this site since July 20, 1993. If more than one such facility sends sewage sludge to this site, attach additional pages as necessary.
Facility name:
Facility contact:
Title:
Phone:
Mailing address.
Street or P.O. Box:
City or Town:

e. Provide the total loading and allotment remaining, in kg/hectare, for each of the following pollutants:

	Cumulative loading	Allotment remaining
Arsenic	<0.054 kg/h	40.493 kg/h
Cadmium	<0.014 kg/h	38.812 kg/h
Copper	2.201 kg/h	1408.795 kg/h
Lead	<0.093 kg/h	277.584 kg/h
Mercury	<0.001 kg/h	16.965 kg/h
Nickel	<0.041kg/h	418.265 kg/h
Selenium	<0.016 kg/h	99.737 kg/h
Zinc	1.210 kg/h	2723.083 kg/h

Field No. 2

Complete Questions 7-12 below only if you apply sewage sludge, or you are responsible for land application of sewage sludge. Information required by these questions may be prepared as attachments to this form. Skip the following questions if you contract land application to someone else (as indicated under Section A.7) who is responsible for the operation.

7. Sludge Characterization. Use the table below or a separate attachment, provide at least one analysis for each parameter.

PCBs (mg/kg)
pH (S. U.)
Percent Solids (%)
Ammonium Nitrogen (mg/kg)
Nitrate Nitrogen (mg/kg)
Total Kjeldahl Nitrogen (mg/kg)
Total Phosphorus (mg/kg)
Total Potassium (mg/kg)
Alkalinity as $CaCO_3$* (mg/kg)

* Lime treated sludge (10% or more lime by dry weight) should be analyzed for percent $CaCO_3$. N/A

a. Have you contacted DEQ or the permitting authority in the state where the sewage sludge subject to the CPLRs will be applied to ascertain whether bulk sewage sludge subject to the CPLRs has been applied to this site since July 20, 1993? ___Yes ___No
If no, sewage sludge subject to the CPLRs may not be applied to this site.
If yes, provide the following information:
Permitting authority:
Contact person:
Phone:

b. Based upon this inquiry, has bulk sewage sludge subject to the CPLRs been applied to this site since July 20, 1993? Yes ___No If no, skip the rest of Question 6. If yes, answer questions c - e.

c. Site size, in hectares: _____ (one hectare = 2.471 acres)

d. Provide the following information for every facility other than yours that is sending or has sent sewage sludge subject to the CPLRs to this site since July 20, 1993. If more than one such facility sends sewage sludge to this site, attach additional pages as necessary.
Facility name:
Facility contact:
Title:
Phone:
Mailing address.
Street or P.O. Box:
City or Town:

e. Provide the total loading and allotment remaining, in kg/hectare, for each of the following pollutants:

	Cumulative loading	Allotment remaining
Arsenic	<0.054 kg/h	40.493 kg/h
Cadmium	<0.014 kg/h	38.812 kg/h
Copper	2.201 kg/h	1408.795 kg/h
Lead	<0.093 kg/h	277.584 kg/h
Mercury	<0.001 kg/h	16.965 kg/h
Nickel	<0.041kg/h	418.265 kg/h
Selenium	<0.016 kg/h	99.737 kg/h
Zinc	1.210 kg/h	2723.083 kg/h

Field No. 3

Complete Questions 7-12 below only if you apply sewage sludge, or you are responsible for land application of sewage sludge. Information required by these questions may be prepared as attachments to this form. Skip the following questions if you contract land application to someone else (as indicated under Section A.7) who is responsible for the operation.

7. Sludge Characterization. Use the table below or a separate attachment, provide at least one analysis for each parameter.

PCBs (mg/kg)
pH (S. U.)
Percent Solids (%)
Ammonium Nitrogen (mg/kg)
Nitrate Nitrogen (mg/kg)
Total Kjeldahl Nitrogen (mg/kg)
Total Phosphorus (mg/kg)
Total Potassium (mg/kg)
Alkalinity as $CaCO_3$* (mg/kg)

* Lime treated sludge (10% or more lime by dry weight) should be analyzed for percent $CaCO_3$. N/A

a. Have you contacted DEQ or the permitting authority in the state where the sewage sludge subject to the CPLRs will be applied to ascertain whether bulk sewage sludge subject to the CPLRs has been applied to this site since July 20, 1993? ___Yes ___No
If no, sewage sludge subject to the CPLRs may not be applied to this site.
If yes, provide the following information:
Permitting authority:
Contact person:
Phone:

b. Based upon this inquiry, has bulk sewage sludge subject to the CPLRs been applied to this site since July 20, 1993? Yes ___No If no, skip the rest of Question 6. If yes, answer questions c - e.

c. Site size, in hectares: _____ (one hectare = 2.471 acres)

d. Provide the following information for every facility other than yours that is sending or has sent sewage sludge subject to the CPLRs to this site since July 20, 1993. If more than one such facility sends sewage sludge to this site, attach additional pages as necessary.
Facility name:
Facility contact:
Title:
Phone:
Mailing address.
Street or P.O. Box:
City or Town:

e. Provide the total loading and allotment remaining, in kg/hectare, for each of the following pollutants:

	Cumulative loading	Allotment remaining
Arsenic	<0.054 kg/h	40.493 kg/h
Cadmium	<0.014 kg/h	38.812 kg/h
Copper	2.201 kg/h	1408.795 kg/h
Lead	<0.093 kg/h	277.584 kg/h
Mercury	<0.001 kg/h	16.965 kg/h
Nickel	<0.041kg/h	418.265 kg/h
Selenium	<0.016 kg/h	99.737 kg/h
Zinc	1.210 kg/h	2723.083 kg/h

Field No. 5

Complete Questions 7-12 below only if you apply sewage sludge, or you are responsible for land application of sewage sludge. Information required by these questions may be prepared as attachments to this form. Skip the following questions if you contract land application to someone else (as indicated under Section A.7) who is responsible for the operation.

7. Sludge Characterization. Use the table below or a separate attachment, provide at least one analysis for each parameter.

PCBs (mg/kg)
pH (S. U.)
Percent Solids (%)
Ammonium Nitrogen (mg/kg)
Nitrate Nitrogen (mg/kg)
Total Kjeldahl Nitrogen (mg/kg)
Total Phosphorus (mg/kg)
Total Potassium (mg/kg)
Alkalinity as $CaCO_3$* (mg/kg)

* Lime treated sludge (10% or more lime by dry weight) should be analyzed for percent $CaCO_3$. N/A

a. Have you contacted DEQ or the permitting authority in the state where the sewage sludge subject to the CPLRs will be applied to ascertain whether bulk sewage sludge subject to the CPLRs has been applied to this site since July 20, 1993? __Yes __No
If no, sewage sludge subject to the CPLRs may not be applied to this site.
If yes, provide the following information:
Permitting authority:
Contact person:
Phone:

b. Based upon this inquiry, has bulk sewage sludge subject to the CPLRs been applied to this site since July 20, 1993? Yes __No If no, skip the rest of Question 6. If yes, answer questions c - e.

c. Site size, in hectares: _____ (one hectare = 2.471 acres)

d. Provide the following information for every facility other than yours that is sending or has sent sewage sludge subject to the CPLRs to this site since July 20, 1993. If more than one such facility sends sewage sludge to this site, attach additional pages as necessary.
Facility name:
Facility contact:
Title:
Phone:
Mailing address.
Street or P.O. Box:
City or Town:

e. Provide the total loading and allotment remaining, in kg/hectare, for each of the following pollutants:

	Cumulative loading	Allotment remaining
Arsenic	<0.054 kg/h	40.493 kg/h
Cadmium	<0.014 kg/h	38.812 kg/h
Copper	2.201 kg/h	1408.795 kg/h
Lead	<0.093 kg/h	277.584 kg/h
Mercury	<0.001 kg/h	16.965 kg/h
Nickel	<0.041kg/h	418.265 kg/h
Selenium	<0.016 kg/h	99.737 kg/h
Zinc	1.210 kg/h	2723.083 kg/h

Field No. 11

Complete Questions 7-12 below only if you apply sewage sludge, or you are responsible for land application of sewage sludge. Information required by these questions may be prepared as attachments to this form. Skip the following questions if you contract land application to someone else (as indicated under Section A.7) who is responsible for the operation.

7. Sludge Characterization. Use the table below or a separate attachment, provide at least one analysis for each parameter.

PCBs (mg/kg)
pH (S. U.)
Percent Solids (%)
Ammonium Nitrogen (mg/kg)
Nitrate Nitrogen (mg/kg)
Total Kjeldahl Nitrogen (mg/kg)
Total Phosphorus (mg/kg)
Total Potassium (mg/kg)
Alkalinity as $CaCO_3$* (mg/kg)

* Lime treated sludge (10% or more lime by dry weight) should be analyzed for percent $CaCO_3$. N/A

a. Have you contacted DEQ or the permitting authority in the state where the sewage sludge subject to the CPLRs will be applied to ascertain whether bulk sewage sludge subject to the CPLRs has been applied to this site since July 20, 1993? ___Yes ___No
If no, sewage sludge subject to the CPLRs may not be applied to this site.
If yes, provide the following information:
Permitting authority:
Contact person:
Phone:

b. Based upon this inquiry, has bulk sewage sludge subject to the CPLRs been applied to this site since July 20, 1993? Yes ___No If no, skip the rest of Question 6. If yes, answer questions c - e.

c. Site size, in hectares: _____ (one hectare = 2.471 acres)

d. Provide the following information for every facility other than yours that is sending or has sent sewage sludge subject to the CPLRs to this site since July 20, 1993. If more than one such facility sends sewage sludge to this site, attach additional pages as necessary.
Facility name:
Facility contact:
Title:
Phone:
Mailing address.
Street or P.O. B
City or Town:____ State:___ Zip:

e. Provide the total loading and allotment remaining, in kg/hectare, for each of the following pollutants:

	Cumulative loading	Allotment remaining	**Field Numbers:**
Arsenic	N/A	40.493 kg/h	
Cadmium	N/A	38.812 kg/h	**8,9,10,13,15,16,18,20,21,22,**
Copper	N/A	1408.795 kg/h	**23,24,26,28,30,34P,35P,36P,**
Lead	N/A	277.584 kg/h	**37P,38P,39P,40P,41P.42P,44P,**
Mercury	N/A	16.965 kg/h	**45P,46P,47P,48P,49P,51,55**
Nickel	N/A	418.265 kg/h	
Selenium	N/A	99.737 kg/h	
Zinc	N/A	2723.083 kg/h	

Complete Questions 7-12 below only if you apply sewage sludge, or you are responsible for land application of sewage sludge. Information required by these questions may be prepared as attachments to this form. Skip the following questions if you contract land application to someone else (as indicated under Section A.7) who is responsible for the operation.

7. Sludge Characterization. Use the table below or a separate attachment, provide at least one analysis for each parameter.

PCBs (mg/kg)
pH (S. U.)
Percent Solids (%)
Ammonium Nitrogen (mg/kg)
Nitrate Nitrogen (mg/kg)
Total Kjeldahl Nitrogen (mg/kg)
Total Phosphorus (mg/kg)
Total Potassium (mg/kg)
Alkalinity as $CaCO_3$* (mg/kg)

* Lime treated sludge (10% or more lime by dry weight) should be analyzed for percent $CaCO_3$. N/A

(1) Analysis Results 2007 — 2011

SHCC	07	08	09	10	11	Total
Arsenic	1.2	0.836	4.22	9.77	32.6	= 48.6
Cadmium	0.583	<0.9	0.35	<0.40	<5	= <7.2
Chromium	2.51	<2.25	9.72	2.46	(2)	= <16.9
Copper	414	86.4	921	212	43.1	= 1677
Lead	6.19	8.88	18.8	11.4	<20	= <65.3
Mercury	<0.006	<0.018	0.439	0.198	<0.20	= <0.9
Molybdenum	<10.0	<20.0	<50.0	<20.0	<100	= <200
Nickel	53.9	13.3	15.9	<4.0	<20	= <107.1
Selenium	0.988	<2.40	6.23	13.5	7.3	= <30.4
Zinc	302	123	365	118	52.2	= 960

SBCC	07	08	09	10	11	Total
Arsenic	0.387	0.246	5.11	<1.0	3.6	= <10.3
Cadmium	0.761	<0.96	0.320	0.775	<5	= <7.8
Chromium	2.87	<2.40	3.05	<4.75	(2)	= <13.1
Copper	98.5	95.5	253	70.9	226	= 743.9
Lead	<1.95	<2.40	7.42	4.68	<20	= <36.5
Mercury	0.139	<0.018	0.078	0.041	<0.20	= <0.5
Molybdenum	<10.0	<20.0	<50.0	<19.0	<100	= <199
Nickel	<3.9	11.1	4.93	<5.0	<20	= <44.9
Selenium	0.305	<2.40	2.78	6.77	<5	= <17.3
Zinc	101	76.3	102	26.0	65.3	= 370.6

②

SHCC	Totals		lbs.
Arsenic	48.6 x .002	=	0.097
Cadmium	<7.2 x .002	=	<0.014
Chromium	<16.9 x .002	=	<0.034
Copper	1677 x .002	=	3.354
Lead	<65.3 x .002	=	<0.131
Mercury	<0.9 x .002	=	<0.002
Molybdenum	<200 x .002	=	<0.400
Nickel	<107.1 x .002	=	<0.214
Selenium	<30.4 x .002	=	<0.061
Zinc	960 x .002	=	1.920

SBCC	Totals		lbs.
Arsenic	<10.3 x .002	=	<0.021
Cadmium	<7.8 x .002	=	<0.016
Chromium	<13.1 x .002	=	<0.026
Copper	743.9 x .002	=	1.488
Lead	<36.5 x .002	=	<0.073
Mercury	<0.5 x .002	=	<0.001
Molybdenum	<199 x .002	=	<0.398
Nickel	<44.9 x .002	=	<0.090
Selenium	<17.3 x .002	=	<0.035
Zinc	370.6 x .002	=	0.741

③

	SHCC		SBCC		Total/lbs.
Arsenic	0.097	+	<0.021	=	<0.118
Cadmium	<0.014	+	<0.016	=	<0.030
Chromium	<0.034	+	<0.026	=	<0.060
Copper	3.354	+	1.488	=	4.842
Lead	<0.131	+	<0.073	=	<0.204
Mercary	<0.002	+	<0.001	=	<0.003
Molybdenum	<0.400	+	<0.398	=	<0.798
Nickel	<0.214	+	<0.090	=	<0.304
Selenium	<0.061	+	<0.035	=	<0.096
Zinc	1.920	+	0.741	=	2.661

	lbs. to kg.	kg.	No. of Applications From 2007-2011	Cumulative Loading
Arsenic	<0.118 ÷ 2.2 =	<0.054	× 1 per plot =	<0.054 kg/Hectare
Cadmium	<0.030 ÷ 2.2 =	<0.014	× 1 per plot =	<0.014 kg/Hectare
Chromium	<0.060 ÷ 2.2 =	<0.027	× 1 per plot =	<0.027 kg/Hectare
Copper	4.842 ÷ 2.2 =	2.201	× 1 per plot =	2.201 kg/Hectare
Lead	<0.204 ÷ 2.2 =	<0.093	× 1 per plot =	<0.093 kg/Hectare
Mercary	<0.003 ÷ 2.2 =	<0.001	× 1 per plot =	<0.001 kg/Hectare
Molybdenum	<0.798 ÷ 2.2 =	<0.363	× 1 per plot =	<0.363 kg/Hectare
Nickel	<0.090 ÷ 2.2 =	<0.041	× 1 per plot =	<0.041 kg/Hectare
Selenium	<0.035 ÷ 2.2 =	<0.016	× 1 per plot =	<0.016 kg/Hectare
Zinc	2.661 ÷ 2.2 =	1.210	× 1 per plot =	1.210 kg/Hectare

(4)

	Beginning Allotment 1996	Allotment 1996–2001
Arsenic	41 kg/h	40.5931 kg/h
Cadmium	39 kg/h	38.8396 kg/h
Copper	1500 kg/h	1415.0749 kg/h
Lead	300 kg/h	277.7604 kg/h
Mercury	17 kg/h	16.9673 kg/h
Nickel	420 kg/h	418.3898 kg/h
Selenium	100 kg/h	99.7862 kg/h
Zinc	2800 kg/h	2726.3244 kg/h

2002	Beginning Allotment	2002 to 2006 Cumulative Loading	2007> Allotment Remaining
Arsenic	40.5931 kg/h	− 0.0461 kg/h =	40.5470 kg/h
Cadmium	38.8396 kg/h	− 0.0138 kg/h =	38.8258 kg/h
Copper	1415.0749 kg/h	− 4.0791 kg/h =	1410.9958 kg/h
Lead	277.7604 kg/h	− 0.0834 kg/h =	277.6773 kg/h
Mercury	16.9673 kg/h	− 0.0013 kg/h =	16.9660 kg/h
Nickel	418.3898 kg/h	− 0.0835 kg/h =	418.3063 kg/h
Selenium	99.7862 kg/h	− 0.0337 kg/h =	99.7525 kg/h
Zinc	2726.3244 kg/h	− 2.0316 kg/h =	2724.2928 kg/h

Acres / Hectare

739 ÷ 2.471 = 299.07 Hectares

(5)

	2007 Beginning Allotment		2007-2011 Cumulative Loading		2012 > Allotment Remaining
Arsenic	40.547 kg/h	−	<0.054 kg/h	=	40.493 kg/h
Cadmium	38.826 kg/h	−	<0.014 kg/h	=	38.812 kg/h
Chromium	N/A	−	N/A	−	N/A
Copper	1410.996 kg/h	−	2.201 kg/h	=	1408.795 kg/h
Lead	277.677 kg/h	−	<0.093 kg/h	=	277.584 kg/h
Mercury	16.966 kg/h	−	<0.001 kg/h	=	16.965 kg/h
Molybdenum	N/A	−	N/A	−	N/A
Nickel	418.306 kg/h	−	<0.041 kg/h	=	418.265 kg/h
Selenium	99.753 kg/h	−	<0.016 kg/h	=	99.737 kg/h
Zinc	2724.293 kg/h	−	1.210 kg/h	=	2723.083 kg/h

Jennings Laboratories INC
1118 CYPRESS AVENUE
VIRGINIA BEACH, VA 23451
TELEPHONE 757/425/1498
FACSIMILE 757/422/9176

ANALYTICAL CHEMISTS

Certificate of Analysis

TO SOUTHAMPTON ENVIRONMENTAL SERVICE
ATTN: STEVE HOLTON
14545 OLD BELFIELD RD.
CAPRON, VA 23829

DATE 11/05/07

SAMPLE DESCRIPTION Biosolids
Sample marked: Biosolids

ANALYSIS NUMBER 07-4311

ANALYSIS	RESULTS	DATE & TIME OF ANALYSIS	ANALYST
Arsenic	1.20 mg/kg	10/29/07 @ 1400	PT
Cadmium	0.583 mg/kg	11/01/07 @ 1300	PT
Chromium	2.51 mg/kg	10/18/07 @ 1600	PT
Copper	414 mg/kg	10/24/07 @ 1400	PT
Lead	6.19 mg/kg	10/26/07 @ 1130	PT
Mercury	<0.006 mg/kg	11/02/07 @ 1745	PT
Molybdenum	<10.0 mg/kg	10/26/07 @ 1330	PT
Nickel	53.9 mg/kg	10/16/07 @ 1345	PT
Selenium	0.988 mg/kg	10/31/07 @ 1045	PT
Zinc	302 mg/kg	10/16/07 @ 1245	PT

Chemist W. H. Jennings Jr.

OFFICIAL METHODS OF A.O.A.C., A.O.C.S., A.S.T.M., E.P.A., A.P.H.A. & N.S.P.A. USED IN ALL ANALYSIS UNLESS OTHERWISE STATED.

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ANALYTICAL CHEMISTS

Certificate of Analysis

DATE 12/05/08

TO SOUTHAMPTON ENVIRONMENTAL SERVICES
ATTN: STEVE HOLTON
14545 OLD BELFIELD RD.
CAPRON, VA 23829

ANALYSIS NUMBER 08-4395

SAMPLE DESCRIPTION Biosolids
Sample marked: Biosolids

ANALYSIS	RESULTS	DATE & TIME OF ANALYSIS	ANALYST
Arsenic	0.836 mg/kg	11/12/08 @ 0930	PT
Cadmium	<0.9 mg/kg	11/28/08 @ 1415	PT
Chromium	<2.25 mg/kg	11/28/08 @ 1200	PT
Copper	86.4 mg/kg	11/28/08 @ 1000	PT
Lead	8.88 mg/kg	11/19/08 @ 1315	PT
Mercury	<0.018 mg/kg	11/20/08 @ 1330	PT
Molybdenum	<20.0 mg/kg	11/28/08 @ 1400	PT
Nickel	13.3 mg/kg	11/19/08 @ 1245	PT
Selenium	<2.40 mg/kg	12/03/08 @ 1115	PT
Zinc	123 mg/kg	11/19/08 @ 1200	PT

Chemist _____
OFFICIAL METHODS OF A.O.A.C., A.O.C.S., ASTM, EPA, APHA ARE USED IN ALL ANALYSES UNLESS OTHERWISE STATED.

Jennings Laboratories

ANALYTICAL CHEMISTS

1116 CYPRESS AVENUE
VIRGINIA BEACH, VA 23451
TELEPHONE 757/425/1498
FACSIMILE 757/422/9176

Certificate of Analysis

TO SOUTHAMPTON ENVIRONMENTAL SERVICE
ATTN: STEVE HOLTON
14545 OLD BELFIELD RD.
CAPRON, VA 23829

DATE 11/10/09

SAMPLE DESCRIPTION Biosolids
Sample marked: Biosolids

ANALYSIS NUMBER 09-4439

ANALYSIS	AS IS MOISTURE BASIS RESULTS	DATE & TIME OF ANALYSIS	ANALYST
Arsenic	4.22 mg/kg	10/22/09 @ 1430	PT
Cadmium	0.35 mg/kg	10/27/09 @ 1515	PT
Chromium	9.72 mg/kg	11/05/09 @ 1245	PT
Copper	921 mg/kg	11/04/09 @ 1400	PT
Lead	18.8 mg/kg	11/04/09 @ 1200	PT
Mercury	0.439 mg/kg	10/23/09 @ 1015	PT
Molybdenum	<50.0 mg/kg	11/04/09 @ 1300	PT
Nickel	15.9 mg/kg	10/28/09 @ 1255	PT
Selenium	6.23 mg/kg	10/22/09 @ 1500	PT
Zinc	365 mg/kg	10/27/09 @ 1200	PT

Chemist

OFFICIAL METHODS OF A.O.A.C., A.O.C.S., A.S.T.M., E.P.A., A.P.H.A. & N.E.R.A. USED IN ALL ANALYSIS UNLESS OTHERWISE STATED.

Jennings Laboratories INC
1118 CYPRESS AVENUE
VIRGINIA BEACH, VA 23451
TELEPHONE 757/425/1498
FACSIMILE 757/422/9176

ANALYTICAL CHEMISTS

Certificate of Analysis

TO SOUTHAMPTON ENVIRONMENTAL SERVICE
ATTN: STEVE HOLTON
14545 OLD BELFIELD RD.
CAPRON, VA 23829

DATE 03/04/11

SAMPLE DESCRIPTION Biosolids
Sample marked: Biosolids

ANALYSIS NUMBER 11-0159

MH

ANALYSIS	AS IS MOISTURE BASIS RESULTS	DATE & TIME OF ANALYSIS	ANALYST
Arsenic	9.77 mg/kg	01/25/11 @ 1400	PT
Cadmium	<0.40 mg/kg	01/24/11 @ 1500	PT
Chromium	2.46 mg/kg	01/27/11 @ 1300	PT
Copper	212 mg/kg	01/27/11 @ 113 0	PT
Lead	11.4 mg/kg	01/27/11 @ 1235	PT
Mercury	0.198 mg/kg	02/03/11 @ 1100	PT
Molybdenum	<20.0 mg/kg	02/02/11 @ 1400	PT
Nickel	<4.00 mg/kg	02/02/11 @ 1230	PT
Selenium	13.5 mg/kg	01/25/11 @ 1500	PT
Zinc	118 mg/kg	01/24/11 @ 1415	PT

Chemist

OFFICIAL METHODS OF A.O.A.C., A.O.C.S., A.S.T.M., E.P.A., A.P.H.A. & M.S.P.A. USED IN ALL ANALYSIS UNLESS OTHERWISE STATED.

Jennings Laboratories

1118 CYPRESS AVENUE
VIRGINIA BEACH, VA 23451
TELEPHONE 757/425/1498
FACSIMILE 757/422/9176

ANALYTICAL CHEMISTS

Certificate of Analysis

TO SOUTHAMPTON CORRECTIONAL COMPLEX
ATTN: STEVE HOLTON
14545 OLD BELFIELD RD.
CAPRON, VA 23829

DATE 11/17/11

SAMPLE DESCRIPTION
Biosolids
Sample received: 10/17/11 @ 1035
Sample collected: 10/17/11 @ 0835
Sample marked: Biosolids

ANALYSIS NUMBER 11-3240

MH

ANALYSIS	AS IS MOISTURE BASIS RESULTS	DATE & TIME OF ANALYSIS	ANALYST
Total Arsenic	32.6 mg/kg	10/20/11 @ 1200	PT
Total Cadmium	<5 mg/kg	10/19/11 @ 1015	PT
Total Copper	43.1 mg/kg	10/19/11 @ 1100	PT
Total Lead	<20 mg/kg	10/19/11 @ 1045	PT
Total Mercury	<0.20 mg/kg	10/21/11 @ 1100	PT
Total Molybdenum	<100 mg/kg	10/19/11 @ 1130	PT
Total Nickel	<20 mg/kg	10/19/11 @ 1030	PT
Total Selenium	7.3 mg/kg	10/20/11 @ 1300	PT
Total Zinc	52.2 mg/kg	10/19/11 @ 1000	PT
Total Potassium	<20 mg/kg	10/19/11 @ 1000	PT

Chemist

OFFICIAL METHODS O.A.C., A.O.C.S., A.S.T.M., E.P.A., A.P.H.A., S.M.W.P.A. USED IN ALL ANALYSIS UNLESS OTHERWISE STATED.

Jennings Laboratories

ANALYTICAL CHEMISTS

1118 CYPRESS AVENUE
VIRGINIA BEACH, VA 23451
TELEPHONE 757/425/1498
FACSIMILE 757/422/9176

Certificate of Analysis

TO ST BRIDES CORRECTIONAL CENTER
ATTN: CHARLES BROWN
P O BOX 16482
CHESAPEAKE VA 23328-6482

DATE 11/08/07

SAMPLE DESCRIPTION Biosolids
Sample marked: Biosolids

ANALYSIS NUMBER 07-4492
PAGE #2

ANALYSIS	RESULTS	DATE & TIME OF ANALYSIS	ANALYST
Arsenic	0.387 mg/kg	10/29/07 @ 1400	PT
Cadmium	0.761 mg/kg	11/01/07 @ 1300	PT
Chromium	2.87 mg/kg	10/26/07 @ 1330	PT
Copper	98.5 mg/kg	10/31/07 @ 1700	PT
Lead	<1.95 mg/kg	10/26/07 @ 1130	PT
Mercury	0.139 mg/kg	11/02/07 @ 1745	PT
Molybdenum	<10.0 mg/kg	10/26/07 @ 1330	PT
Nickel	<3.9 mg/kg	10/26/07 @ 1400	PT
Selenium	0.305 mg/kg	10/31/07 @ 1045	PT
Zinc	101 mg/kg	11/01/07 @ 1230	PT

Chemist

OFFICIAL METHODS OF A.O.A.C., A.O.C.S., A.S.T.M., E.P.A., A.P.H.A. & N.S.P.A. USED IN ALL ANALYSIS UNLESS OTHERWISE STATED.

Jennings Laboratories

1118 CYPRESS AVENUE
VIRGINIA BEACH, VA 23451
TELEPHONE 757/426/1498
FACSIMILE 757/422/9176

ANALYTICAL CHEMISTS

Certificate of Analysis

TO ST BRIDES CORRECTIONAL CENTER
ATTN: CHARLES BROWN
P O BOX 16482
CHESAPEAKE VA 23328-6482

DATE 12/05/08

SAMPLE DESCRIPTION Biosolids
Sample marked: Biosolids

ANALYSIS NUMBER 08-4548

ANALYSIS	RESULTS	DATE & TIME OF ANALYSIS	ANALYST
Arsenic	0.246 mg/kg	11/25/08 @ 0915	PT
Cadmium	<0.96 mg/kg	11/28/08 @ 1415	PT
Chromium	<2.40 mg/kg	11/28/08 @ 1200	PT
Copper	95.5 mg/kg	11/28/08 @ 1000	PT
Lead	<2.40 mg/kg	11/19/08 @ 1315	PT
Mercury	<0.018 mg/kg	11/20/08 @ 1330	PT
Molybdenum	<20.0 mg/kg	11/28/08 @ 1400	PT
Nickel	11.1 mg/kg	11/19/08 @ 1245	PT
Selenium	<2.40 mg/kg	12/03/08 @ 1115	PT
Zinc	76.3 mg/kg	11/19/08 @ 1200	PT

Chemist

OFFICIAL METHODS OF A.O.A.C., A.O.C.S., A.S.T.M., E.P.A., A.P.H.A. & N.S.P.A. USED IN ALL ANALYSIS UNLESS OTHERWISE STATED.

Jennings Laboratories INC

1118 CYPRESS AVENUE
VIRGINIA BEACH, VA 23451
TELEPHONE 757/425/1498
FACSIMILE 757/422/9176

ANALYTICAL CHEMISTS

Certificate of Analysis

TO ST BRIDES CORRECTIONAL CENTER
ATTN: CHARLES BROWN
P O BOX 16482
CHESAPEAKE VA 23328-6482

DATE 11/10/09

SAMPLE DESCRIPTION Biosolids
Sample marked: Biosolids

ANALYSIS NUMBER 09-4391
PAGE #2

ANALYSIS	AS IS MOISTURE BASIS RESULTS	DATE & TIME OF ANALYSIS	ANALYST
Arsenic	5.11 mg/kg	10/22/09 @ 1430	PT
Cadmium	0.320 mg/kg	10/27/09 @ 1515	PT
Chromium	3.05 mg/kg	11/05/09 @ 1245	PT
Copper	253 mg/kg	11/04/09 @ 1400	PT
Lead	7.42 mg/kg	11/04/09 @ 1200	PT
Mercury	0.078 mg/kg	10/23/09 @ 1015	PT
Molybdenum	<50.0 mg/kg	11/04/09 @ 1300	PT
Nickel	4.93 mg/kg	10/28/09 @ 1255	PT
Selenium	2.78 mg/kg	10/22/09 @ 1500	PT
Zinc	102 mg/kg	10/27/09 @ 1200	PT

Chemist

OFFICIAL METHODS of A.O.A.C., A.O.C.S., A.S.T.M., E.P.A., A.P.H.A. & N.S.P.A. USED IN ALL ANALYSIS UNLESS OTHERWISE STATED.

Jennings Laboratories INC.

1118 CYPRESS AVENUE
VIRGINIA BEACH, VA 23451
TELEPHONE 757/425/1498
FACSIMILE 757/422/9176

ANALYTICAL CHEMISTS

Certificate of Analysis

TO ST BRIDES CORRECTIONAL CENTER
ATTN: CHARLES BROWN
P O BOX 16482
CHESAPEAKE VA 23328-6482

DATE ~~11/10/09~~ 3/11/11

SAMPLE DESCRIPTION Biosolids
Sample marked: Biosolids

ANALYSIS NUMBER 11-0446
MH
PAGE #2

ANALYSIS	AS IS MOISTURE BASIS RESULTS	DATE & TIME OF ANALYSIS	ANALYST
Arsenic	<1.0 mg/kg	03/10/11 @ 1030	PT
Cadmium	0.775 mg/kg	03/09/11 @ 1320	PT
Chromium	<4.75 mg/kg	03/09/11 @ 1445	PT
Copper	70.9 mg/kg	03/09/11 @ 1430	PT
Lead	4.68 mg/kg	03/09/11 @ 1345	PT
Mercury	0.041 mg/kg	03/10/11 @ 1330	PT
Molybdenum	<19.0 mg/kg	03/09/11 @ 1415	PT
Nickel	<5.0 mg/kg	03/09/11 @ 1330	PT
Selenium	6.77 mg/kg	03/09/11 @ 1230	PT
Zinc	26.0 mg/kg	03/09/11 @ 1300	PT

Chemist

OFFICIAL METHODS OF A.O.A.C., A.O.C.S., A.S.T.M., E.P.A., A.P.H.A. & N.S.P.A. USED IN ALL ANALYSIS UNLESS OTHERWISE STATED.

Jennings Laboratories

1118 CYPRESS AVENUE
VIRGINIA BEACH, VA 23451
TELEPHONE 757/425/1498
FACSIMILE 757/422/9176

ANALYTICAL CHEMISTS

Certificate of Analysis

TO ST BRIDES CORRECTIONAL CENTER
ATTN: CHARLES BROWN
P O BOX 16482
CHESAPEAKE VA 23328-6482

DATE 11/17/11

SAMPLE DESCRIPTION Biosolids
Sample received: 10/18/11 @ 0920
Sample collected: 10/18/11 @ 0830
Sample marked: Biosolids

ANALYSIS NUMBER 11-3249
MH
PAGE #2

ANALYSIS	AS IS MOISTURE BASIS RESULTS	DATE & TIME OF ANALYSIS	ANALYST
Total Arsenic	3.6 mg/kg	10/20/11 @ 1200	PT
Total Cadmium	<5 mg/kg	10/19/11 @ 1015	PT
Total Copper	226 mg/kg	10/19/11 @ 1100	PT
Total Lead	<20 mg/kg	10/19/11 @ 1045	PT
Total Mercury	<0.20 mg/kg	10/21/11 @ 1100	PT
Total Molybdenum	<100 mg/kg	10/19/11 @ 1130	PT
Total Nickel	<20 mg/kg	10/19/11 @ 1030	PT
Total Selenium	<5 mg/kg	10/20/11 @ 1300	PT
Total Zinc	65.3 mg/kg	10/19/11 @ 1000	PT
Total Potassium	<20 mg/kg	10/19/11 @ 1000	PT

Chemist

OFFICIAL METHODS OF A.O.A.C., A.O.C.S., A.S.T.M., E.P.A., APHA & NCPA USED IN ALL ANALYSIS UNLESS OTHERWISE STATED.

AIR WATER SOIL LABORATORIES, INC.

2109A North Hamilton Street • Richmond, Virginia 23230 • Tel: (804) 358-8295 Fax: (804) 358-8297

Note: This will be reporting on the 2012 permit for land applying biosolids.

Certificate of Analysis

Final Report

Laboratory Order ID 11100396

Client Name: Haynesville Correctional Center
P.O. Box 129
Haynesville, VA 22472

Date Received: October 21, 2011
Date Issued: October 28, 2011

Submitted To: Mark Wiseman

Project Number: NA

Client Site I.D.: Haynesville WWTP

Purchase Order: VISA

3-9-2012

Analytical Results

Sample I.D.: Drying Beds

Laboratory Sample I.D.: 11100396-001

Date/Time Sampled: 10/21/11 09:30

Parameter	Method	Sample Results	Qual	Rep Limit	Samp Prep Date/Time	Analysis Date/Time	Analyst
Percent Moisture	SM18/2540G	64.0 %		0.1	10/26/2011 15:17	10/26/2011 15:17	BHW
Arsenic	SW6010C	< 1.39 mg/kg		1.39	10/26/2011 14:45	10/28/2011 13:45	MWL
Cadmium	SW6010C	< 1.39 mg/kg		1.39	10/26/2011 14:45	10/27/2011 18:36	MWL
Copper	SW6010C	158 mg/kg		1.39	10/26/2011 14:45	10/27/2011 18:36	MWL
Lead	SW6010C	< 1.39 mg/kg		1.39	10/26/2011 14:45	10/27/2011 18:36	MWL
Mercury	SW7471B	0.204 mg/kg		0.022	10/24/2011 15:20	10/25/2011 15:07	BHW
Molybdenum	SW6010C	< 6.95 mg/kg		6.95	10/26/2011 14:45	10/27/2011 18:36	MWL
Nickel	SW6010C	11.5 mg/kg		1.39	10/26/2011 14:45	10/27/2011 18:36	MWL
Potassium	SW6010C	1760 mg/kg		27.8	10/26/2011 14:45	10/27/2011 14:57	MWL
Selenium	SW6010C	< 6.95 mg/kg		6.95	10/26/2011 14:45	10/27/2011 18:36	MWL
Zinc	SW6010C	198 mg/kg		1.39	10/26/2011 14:45	10/27/2011 18:36	MWL
Alkalinity	SM18/2320B	8150 mg/kg		695	10/26/2011 18:15	10/26/2011 18:15	JPV
Ammonia	EPA350.1/R2.0	299 mg/kg		27.8	10/25/2011 16:05	10/25/2011 16:05	JPV
Nitrate	Calc.	620 mg/kg		27.8	10/26/2011 18:10	10/26/2011 18:10	JPV
Nitrate+Nitrite	SM18/4500-NO3 F	620 mg/kg		27.8	10/27/2011 14:15	10/27/2011 14:15	JPV
Nitrite	SM18/4500-NO2 B	< 5.6 mg/kg		5.6	10/24/2011 17:20	10/24/2011 17:20	JPV
pH	SW9045D	5.9 SU		--	10/26/2011 11:56	10/26/2011 11:56	EML
Phosphorus, Total	SM18/4500-P E	8560 mg/kg		5.6	10/26/2011 11:20	10/26/2011 11:20	JPV
Plant Available Nitrogen (PAN)	Calc.	3.3 lbs/dry ton		2.8	10/26/2011 18:10	10/26/2011 18:10	JPV
TKN	EPA351.2/R2.0	7150 mg/kg		69.5	10/26/2011 18:10	10/26/2011 18:10	JPV

102820111645

nelac Commonwealth of Virginia Accreditation # 460021

AIR WATER SOIL LABORATORIES, INC.
2109A North Hamilton Street • Richmond, Virginia 23230 • Tel: (804) 358-8295 Fax: (804) 358-8297

Certificate of Analysis

Final Report

Laboratory Order ID 11100396

Client Name:	Haynesville Correctional Center P.O. Box 129 Haynesville, VA 22472	Date Received: Date Issued:	October 21, 2011 October 28, 2011
Submitted To:	Mark Wiseman	Project Number:	NA
Client Site I.D.:	Haynesville WWTP	Purchase Order:	VISA

Summary of Analytical QC Batches

QC Batch ID	Method	Sample List		
QC111024043	SM18/4500-NO2 B	11100396-001		
QC111026014	SW7471B	11100396-001		
QC ID	Parameter		Qualifier	Comments
MS	Mercury		M	
MSD	Mercury		M	
QC111026032	SW9045D	11100396-001		
QC111026044	SM18/4500-P E	11100396-001		
QC111026051	EPA350.1/R2.0	11100396-001		
QC111027017	SM18/2540G	11100396-001		
QC111027025	SM18/2320B	11100396-001		
QC111027027	EPA351.2/R2.0	11100396-001		
QC111027039	SW6010C	11100396-001		
QC111027045	SM18/4500-NO3 F	11100396-001		
QC111028002	SW6010C	11100396-001		
QC ID	Parameter		Qualifier	Comments
MS	Lead		M	
MSD	Lead		M	
QC111028015	SW6010C	11100396-001		

Qualifier Definations

Qualifier	Description
M	Matrix spike recovery is outside established acceptance limits.

102820111646

Accredited in accordance with nelac
Commonwealth of Virginia
Accreditation # 460021

METHODS FOR THE FOLLOWING ANALYSIS:

Percent Solids: SM 2540-B
Volatile Solids: SM 2540-E
pH: EPA 150.1
Total Kjeldahl Nitrogen: EPA 351.4
Ammonia as Nitrogen: EPA 350.3
Nitrates - N: SM 4500
Total Phosphorus: SM 4500PBE
Total Potassium: SM 3111B
Alkalinity as $CaCO_3$: SM 2320B
Paint Filter Test: SW 846 9095
Moisture: SM 2540-B
Arsenic: SM 3113B
Cadmium: SM 3111B
Chromium: SM 3111B
Copper: Sm 3111B
Lead: SM 3113B
Mercury: SM 3112B
Molybdenum: 3113B
Nickel: SM 3113B
Selenium: SM 3113B
Zinc: SM 3111B