

Westinghouse Electric Company Nuclear Fuel Columbia Fuel Fabrication Facility 5801 Bluff Road Hopkins, South Carolina 29061 USA

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Your ref:

Our ref: LTR-RAC-20-75

October 1, 2020

Subject: September 2020 CA Progress Report

Ms. Kuhn:

In accordance with Item 19 of Consent Agreement (CA) 19-02-HW, this progress report is being submitted to you, including the following requested information:

- (a) a brief description of the actions which Westinghouse has taken toward achieving compliance with the Consent Agreement during the previous month;
- (b) results of sampling and tests, in tabular summary format received by Westinghouse during the reporting period;
- (c) a brief description of all actions which are scheduled for the next month to achieve compliance with the Consent Agreement, and other information relating to the progress of the work as deemed necessary or requested by the Department; and
- (d) information regarding the percentage of work completed and any delays encountered or anticipated that may affect the approved schedule for implementation of the terms of the Consent Agreement, and a description of efforts made to mitigate delays or avoid anticipated delays.

In response to the above requirements, the following is being reported to the Department since the last progress report on **September 9, 2020**:

(a) Actions during the previous month:

Westinghouse began implementation of the Final Remedial Investigation (RI) Work Plan on 6/10/19. To comply with **Item 4** of the CA, the following actions were completed this month.

- Submitted the RI Phase II Work Plan to DHEC on September 15, 2020 (LTR-RAC-20-72).
- Submitted Lithologic and Construction Logs for Groundwater Wells 69-97 on September 18,2020 (LTR-RAC-20-73).
- Submitted the 2019-2020 Annual Groundwater Monitoring Report to DHEC on September 28, 2020 in accordance with NPDES Permit SC00001848.

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 Completed the following activities to support the Southern Storage Area (SSA) Operable Unit (OU) Work Plan:

- Removed and dispositioned 26 intermodal containers from the area September 21-24,
 2020 according to the schedule in **Attachment A**
- Conducted soil sampling under intermodal containers on the following dates per Department-approved Operable Unit Intermodal Container Work Plan (LTR-RAC-19-87):
 - September 10: C-13, C-19, C-21, C-24, and C-62
 - September 12: C-36, C-37, and C-54
 - September 15: S-45, S-46 and ERT
 - September 22: C-9 and S-5
 - September 24: C-22, C-23, C-61, and C-64
 - September 25: C-4 and C-55
 - September 26: C-15, C-17, C-34, C-38, S-38 (Orange Prime State), and C-47
 - September 30: C-8
- The Final Interim Remedial Investigation Summary Report was submitted to DHEC on July 15, 2020 (LTR-RAC-20-62). A structure contour map of the top of the Black Mingo confining clay was included in the submission in Appendix F as Figure A. Since the submission, a reference table was generated by AECOM to identify the source information for each boring used to generate Figure A. During creation of the table, the depth to the clay was revised in monitoring well W-39/boring B-10 (shown as W-39 on the figure). The reference table entitled "Top of Black Mingo Clay Structure Map Reference Table" and revised Figure A are attached to this monthly report as **Attachment B**.
- (b) Results of sampling and tests:
 - None
- (c) Brief description of all actions which are scheduled for the next month:
 - In accordance with **Item 4** of the CA, Westinghouse will continue to implement the Work Plan to include the following actions:
 - Continue to empty and remove intermodal containers from the site and conduct soil sampling underneath their former footprints.
 - o Conduct semi-annual groundwater well sampling for all monitoring wells.
 - o Continue preparations for RI Phase II field work to begin in November.
 - o Continue preparations for East Lagoon closure in 2021.
- (d) Percentage of work completed and any delays encountered or anticipated:
 - Assessment activities identified in the Final Remedial Investigation Work Plan and associated addendums have been completed, with a summary report submitted.

Respectfully,

Diana P. Joyner

Principal Environmental Engineer Westinghouse Electric Company, CFFF

803.497.7062 (m)

cc: N. Parr, Environmental Manager

J. Ferguson, EH&S Manager

J. Grant, AECOM Project Manager

ENOVIA Records

Attachment A: Southern Storage Area Intermodal (Sealand) Container Disposition for September 2020 **Attachment B:**

Figure A: Structure Contour Map – Top of Black Mingo Confining Clay, Revised in September 2020 Top of Black Mingo Clay Structure Map Reference Table

Southern Storage Area Intermodal (Sealand) Container Disposition for September 2020





Monday 9/21/20

C-04: Packaged for shipment as Low-Level Radioactive Waste (LLRW)

C-34: Packaged for shipment as LLRW

C-09: Recycled with CMC

C-17: (Ash) loaded onto trailer for future processing

Spudco 1: Recycled with CMC

Spudco 2: Recycled with CMC

C-24: Recycled with CMC

C-19: Recycled with CMC

Tuesday 9/22/20

C-21: Recycled with CMC

C-64: Packaged for shipment as LLRW

C-61: Packaged for shipment as LLRW

C-23: Packaged for shipment as LLRW

C-55 (S51): Recycled with CMC

S-05: Recycled with CMC Red 20': Recycled with CMC C-36 Recycled with CMC C-13: Recycled with CMC

Wednesday 9/23/20

C-38: (Ash) loaded onto trailer for future processing

C-37: Recycled with CMC

S-38: Recycled with CMC

C-54: Recycled with CMC

C-47: Packaged for shipment as LLRW C-15: Packaged for shipment as LLRW

C-62: Recycled with CMC

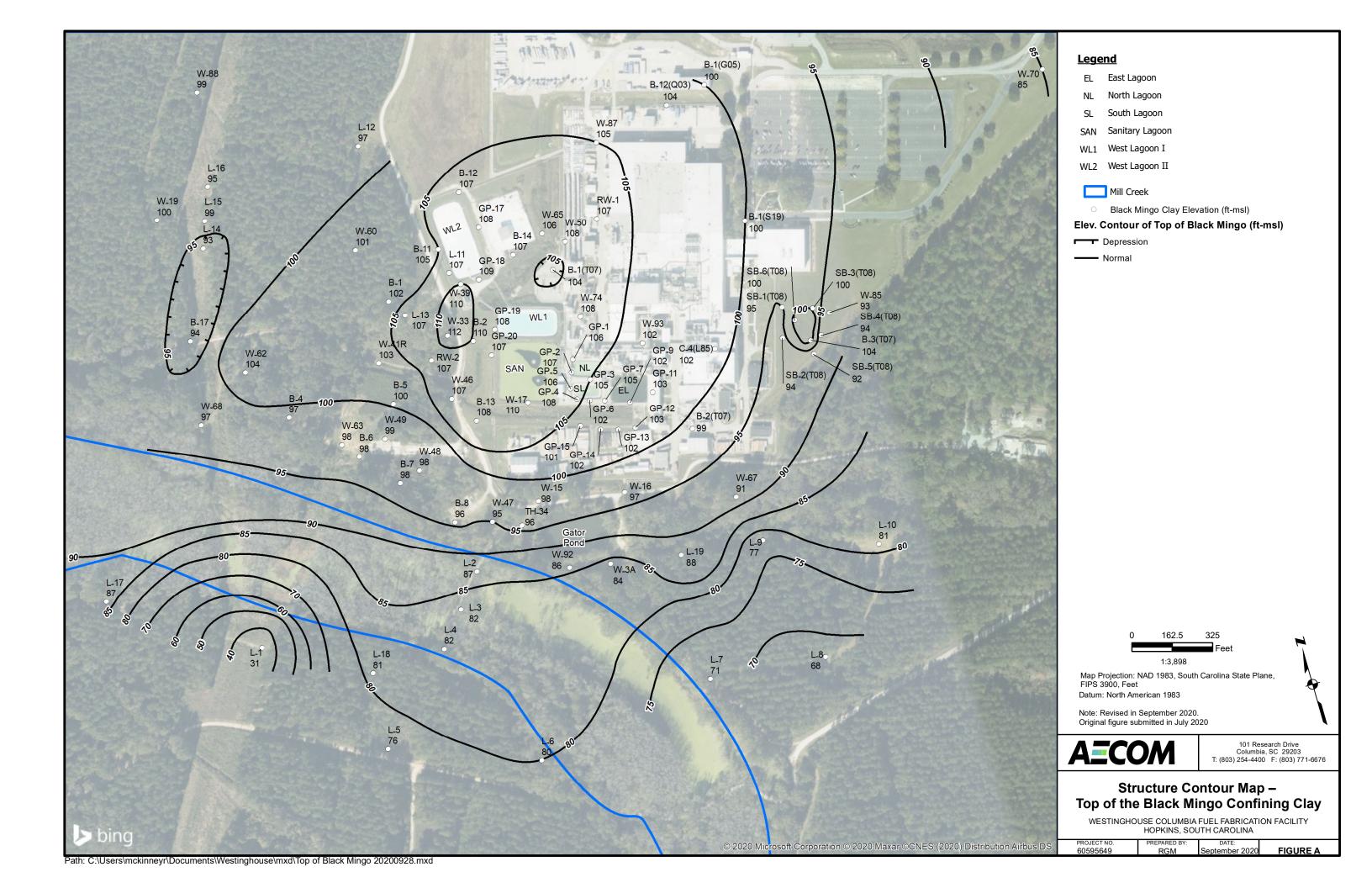
Thursday 9/24/20

C-22 (S49): Packaged for shipment as LLRW

C-08: Staged at pavilion for future CMC campaign

Attachment B

Figure A: Structure Contour Map – Top of Black Mingo Confining Clay, Revised in September 2020 Top of Black Mingo Clay Structure Map Reference Table



Location_ID	Top Interval	Bottom Interval	Thickness	Lithology	USCS	Easting	Northing	Ground Surface Elevation	Top of BMC Elevation	Source Reference
B-1	34	36	2	Clay	CL-ML	2023359.137	745599.9573			AECOM 2017 CVOC Screening Report
B-1(G05)	40	50		Silt	M	2024818.704	746088.3898	140		Gage 2005 Report of Geotechnical Exploration
B-1(S19)	38.5	40			CL	2024826.143	745518.2403	138		Stewart 2019 Geotechnical Engineering Report Westinghouse Additions
B-1(T07)	32	82	,		С	2024028.186	745539.7418	136		Terracon 2007 Preliminary Geotechnical Engineering Report Facility Expansion
B-11	34	38	,		CL	2023608.241	745748.1819	138		AECOM 2017 CVOC Screening Report
B-12	32	32			CL	2023752.338	745946.0986	138	107	AECOM 2017 CVOC Screening Report
B-12(Q03)	32	80	48 Clay		CL	2024650.496	746052.345			QORE 2003 Report of Geotechnical Exploration for Roadway and Security Building
B-13	26.5	28			CL	2023566.574	745042.0187	137		AECOM 2017 CVOC Screening Report
B-14	33	33			CL	2023891.227	745644.0153	139		AECOM 2017 CVOC Screening Report
B-17	43	43	,		CL	2022547.477	745666.5847	136		AECOM 2017 CVOC Screening Report
B-2	25.5	27	,		CL	2023642.639	745353.4335			AECOM 2017 CVOC Screening Report
B-2(T07)	37	93		Silt	МН	2024392.165	744771.9262	136		Terracon 2007 Preliminary Geotechnical Engineering Report Facility Expansion
B-3(T07)	32	100		Silt	MH	2024947.055	744982.0325	136		Terracon 2007 Preliminary Geotechnical Engineering Report Facility Expansion
B-4	38	44		Clay	CH	2022845.145	745261.4472	135		AECOM 2018 CVOC Assessment Report
B-5	30.5	33		Clay	CH	2023263.609	745199.3564			AECOM 2017 CVOC Screening Report
B-6 B-7	44 43.5	47 47		Clay Clay	CH CH	2023072.904 2023202.159	745033.2079 744885.0216	142 141		AECOM 2017 CVOC Screening Report AECOM 2017 CVOC Screening Report
B-8	43.5	51		Clay	СН	2023202.139	744673.8869	141		AECOM 2017 CVOC Screening Report AECOM 2017 CVOC Screening Report
C-4(L85)	34.5	35		Clay	CL	2023570.423	745055.7562	136		Law 1985 Report of Subsurface Exploration Additions to Processing and Office Facilities
GP-1	31.5	34		Clay	CL	2024007.455	745033.7302	138		AECOM 2011 Source Assessment Report
GP-11	34	35		Clay	CL	2024278.947	744957.4465			AECOM 2011 Source Assessment Report
GP-12	30.5	31		Clay	CL	2024172.613	744838.6687	134		AECOM 2011 Source Assessment Report
GP-13	32.5	32.5		Clay	CL	2024104.74	744851.1121	134		AECOM 2011 Source Assessment Report
GP-14	32	34		Clay	CL	2024036.867	744870.3428	134		AECOM 2011 Source Assessment Report
GP-15	31.5	33.5		Clay	CL	2023962.206	744906.5418	138		AECOM 2011 Source Assessment Report
GP-17	31.5	32.5		Clay	CL	2023789.13	745788.8911	137		AECOM 2011 Source Assessment Report
GP-18	29	29.5		Clay	CL	2023732.569	745584.1408	138		AECOM 2011 Source Assessment Report
GP-19	35	35.5	0.5	Clay	CL	2023738.225	745373.7344	142	108	AECOM 2011 Source Assessment Report
GP-2	30	31	1	Clay	CL	2023988.224	745123.7354	138	107	AECOM 2011 Source Assessment Report
GP-20	28	28.5	0.5	Clay	CL	2023697.502	745278.7122	140	107	AECOM 2011 Source Assessment Report
GP-3	32	32		Clay	CL	2024051.573	745076.2243			AECOM 2011 Source Assessment Report
GP-4	30	31		Clay	CL	2023965.6	745062.6497	138		AECOM 2011 Source Assessment Report
GP-5	31	31.5		Clay	CL	2023979.175	745014.0074	135		AECOM 2011 Source Assessment Report
GP-6	34	34.5		Clay	CH	2024027.817	744995.9079	136		AECOM 2011 Source Assessment Report
GP-7	33.5	33.5		Clay	CL	2024084.378	744977.8084			AECOM 2011 Source Assessment Report
GP-9	34.5	35		Clay	CL	2024180.531	744942.7407			AECOM 2011 Source Assessment Report
L-1	83	86		Clay	CL	2022485.17	744401.9836			AECOM 2019 (not submitted in a formal report)
L-10	33.5	38.5		Clay	CL	2024985.744	744119.5721			AECOM 2019 (not submitted in a formal report)
L-11	31	39		Clay	CL CH	2023623.441	745643.5484			AECOM 2019 (not submitted in a formal report)
L-12 L-13	44	49		Clay Clay		2023412.969 2023407.102	746235.2894 745529.008			AECOM 2019 (not submitted in a formal report) AECOM 2019 (not submitted in a formal report)
L-13 L-14	30 47.5	49 49		Clay	CL CH	2023407.102	745529.008			AECOM 2019 (not submitted in a formal report) AECOM 2019 (not submitted in a formal report)
L-14 L-15	41.5	49		Clay	CL-ML	2022701.275	746011.9637	140		AECOM 2019 (not submitted in a formal report)
L-16	45	49		Clay	CL-ML	2022786.321	746244.542			AECOM 2019 (not submitted in a formal report) AECOM 2019 (not submitted in a formal report)
L-10 L-17	29	47		Clay	CH	2021934.634	744753.2904			AECOM 2019 (not submitted in a formal report)
L-18	32	37		Clay	CL	2022886.499	744180.948			AECOM 2019 (not submitted in a formal report)
L-19	26	29		Clay	CL	2024208.02	744295.389			AECOM 2019 (not submitted in a formal report)
L-2	29.5	44		Clay	CH	2023399.847	744458.3618	116		AECOM 2019 (not submitted in a formal report)
L-3	30	49		Clay	CL	2023297.319	744328.3447			AECOM 2019 (not submitted in a formal report)
L-4	30	39		Clay	CL	2023188.082	744195.3121			AECOM 2019 (not submitted in a formal report)
L-5	37.5	38.5		Clay	CL	2022860.532	743871.5398			AECOM 2019 (not submitted in a formal report)
L-6	32.5	38.5		Clay	СН	2023441.98	743656.2794			AECOM 2019 (not submitted in a formal report)
L-7	43.5	46.5	3	Clay	CL	2024185.343	743785.1893	114	71	AECOM 2019 (not submitted in a formal report)
L-8	46	47		Clay	CL	2024653.825	743742.6805			AECOM 2019 (not submitted in a formal report)
L-9	37.5	43.5		Clay	CL	2024540.358	744262.9655			AECOM 2019 (not submitted in a formal report)
RW-1	30	34		Silt	МН	2024255.53	745689.9	138		RUST 1995 Conceptual Design Report
RW-2	30	32	2	Silt	MH	2023458.219	745325.1547	138	107	RUST 1995 Conceptual Design Repor

Top of Black Mingo Clay Structure Map Reference Table

Location_ID	Top Interval	Bottom Interval	Thickness	Lithology	USCS	Easting	Northing	Ground Surface Elevation	Top of BMC Elevation	Source Reference
SB-1(T08)	42	75	33	Clay	С	2024873.951	745143.7641	137		Terracon 2008 Foundation Evaluation Study Facility Expansion
SB-2(T08)	42	75		Clay	C	2024840.948	745022.7532	136		Terracon 2008 Foundation Evaluation Study Facility Expansion
SB-3(T08)	37	75		Clay	С	2024991.819	745106.0464	137		Terracon 2008 Foundation Evaluation Study Facility Expansion
SB-4(T08)	42	75		Clay	С	2024993.39	744991.3218	136		Terracon 2008 Foundation Evaluation Study Facility Expansion
SB-5(T08)	42	75		Clay	С	2024944.671	744926.8874	134	92	Terracon 2008 Foundation Evaluation Study Facility Expansion
SB-6(T08)	37	75	38	Clay	С	2024908.525	745077.7582	137	100	Terracon 2008 Foundation Evaluation Study Facility Expansion
TH-34	27	85	58	Clay	CL	2023626.012	744587.5822	124	96	Soil and Materials Engineers, Inc. 1982 Report on Groundwater Hydrogeology of the Westinghouse Plant
W-15	28.5	30	7	Clay	CL	2023716.793	744663.4228	128	98	Law 1980 Report on Groundwater Investigations
W-16	29.5	31	9	Clay	CL	2024060.256	744602.3195	127	97	Law 1980 Report on Groundwater Investigations
W-17	28	35.5	7.5	Clay	CL-ML	2023785.382	745055.2186	138	110	Law 1980 Report on Groundwater Investigations
W-19B	40.5	43	2.5	Silt	МН	2022552.954	746172.6763	140	100	RUST 1995 Conceptual Design Report
W-33/TH-2	26	30	6	Silt	MH	2023548.664	745402.9948	138	112	Law 1980 Report on Groundwater Investigations/RUST 1995 Conceptual Design Report
W-39/HP-13	29	29.5	29.5	Clay	CL	2023656.672	745587.413	139	110	RUST 1994 Chlorinated Assessment Report
W-3A	34	52	18	Silt	ML	2023926.293	744340.2272	118	84	Law 1985 Report of Monitoring Well Installation
W-41R/HP-11	28	28	3	Silt	ML	2023252.593	745372.8885	131	103	RUST 1994 Chlorinated Assessment Report
W-46	26	29.5	3.5	Silt	MH	2023494.457	745154.5937	134	107	RUST 1995 Conceptual Design Report
W-47	44	45	1	Silt	MH	2023515.87	744633.7657	139	95	RUST 1995 Conceptual Design Report
W-48	42	44.5	2.5	Silt	MH	2023290.444	744913.2224	140	98	RUST 1995 Conceptual Design Report
W-49	39.5	55.5	16	Silt	MH	2023192.63	745073.2287	138	99	RUST 1995 Conceptual Design Report
W-50	29.5	78	48.5	Clay	CH	2024107.399	745637.222	137	108	RUST 1995 Conceptual Design Report
W-60	37	42	5	Clay	CL	2023286.813	745835.5835	138	101	AECOM 2019 CVOC Assessment Report
W-62	23.5	32		Clay	CL	2022726.079	745485.4613	127	104	AECOM 2019 CVOC Assessment Report
W-63	41.5	47			СН	2023019.418	745098.1342	139	98	AECOM 2019 CVOC Assessment Report
W-65	31.5	34	2.5	Clay	CL	2024027.454	745693.704	137	106	AECOM 2019 CVOC Assessment Report
W-67	42	46	4	Clay	СН	2024485.794	744459.5852	133	91	AECOM 2019 CVOC Assessment Report
W-68	17	19	2	Clay	CL	2022496.217	745329.2457	114	97	AECOM 2019 CVOC Assessment Report
W-70	53	92	39	Clay	CH	2026144.88	745774.6961	138	85	AECOM 2019 (not submitted in a formal report)
W-74	30.5	32	1.5	Clay	CH	2024085.05	745329.7964	138	108	AECOM 2019 (not submitted in a formal report)
W-85	43	50	7	Clay	СН	2025051.148	745069.0089	136	93	AECOM 2019 (not submitted in a formal report)
W-87	31.5	34	2.5	Clay	CL-ML	2024337.197	745985.9437	137	105	AECOM 2019 (not submitted in a formal report)
W-88	41	45	4	,	СН	2022849.698	746621.5891	140	99	AECOM 2019 (not submitted in a formal report)
W-90	42	44	2	Clay	CL-ML	2021890.39	746080.7339	141	99	AECOM 2019 (not submitted in a formal report)
W-92	34	37	3	Clay	CL-ML	2023763.067	744370.237	120	86	AECOM 2019 (not submitted in a formal report)
W-93	35.5	40	4.5	Clay	СН	2024294.402	745158.3748	138	102	AECOM 2019 (not submitted in a formal report