Mitchell, Brian

From: Arnold, Doug <Doug.Arnold@alston.com>
Sent: Friday, September 14, 2018 7:22 AM
To: Mitchell, Brian
Subject: Electrolux: Jefferson Property Update
Attachments: Table 1 2 GW analytical data tables.pdf; Figure 1.pdf

Brian:

I am forwarding a table prepared by Golder Associates summarizing the laboratory analytical data from the first semi-annual groundwater monitoring event performed in July 2018. Figure 1 shows the monitoring well locations. Golder intends to perform the second semi-annual monitoring event in October or early November.

Also, is there a convenient time for you next Monday or Tuesday for a call to revisit next steps?

Doug

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Table 1: Summary of Detected Constituents in Groundwater
Former Electrolux Manufacturing Facility
Jefferson, Iowa

			Yellow-Brown Till																					
			MW-43D										MW-46											
			Dec 2012	Mar 2013		Oct 2013	Apr 2014	Jul 2014	Oct 2014	Jul 2017	Nov 2017	Jul 2018	Dec 2012		Mar 2013	Oct 2013	Apr 2014	Jul 2014		Oct 2014	Jul 2017	Nov 2017		Jul 2018
Analyte	**MCL**	**Iowa DNR**	N	FD	N	N	N	N	N	N	N	N	N	FD	N	N	N	N	FD	N	N	FD	N	N
Volatile Organic Compounds (ug/L)																								
Tetrachloroethene	**5**	**1,700**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**13.2**	**10.5**	**<10**	**14.7**	1.23	<10	**11.5**	**<100**	**23.4**	**18.4**	**<100**	**11.6**
Trichloroethene	**5**	**76**	**9.13**	4.65	4.7	2.28	<1	<1	<1	<1	<1	<1	**16,100**	**15,400**	**2,140**	**15,900**	**1,640**	**313**	**21,000**	**14,700**	**19,700**	**14,900**	**13,300**	**10,200**
cis-1,2-Dichloroethene	**70**	**350**	<1	<1	<1	<1	<1	<1	<1	<1	<1	5.23	**38.7**	<100	**290**	**1,950**	**424**	**74.5**	**359**	**883**	**1,230**	**522**	**445**	**569**
Vinyl Chloride	**2**	**10**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**<10**	1.05	<1	<10	<10	<100	<10	1.09	<100	<100
1,1,1-Trichloroethane	**200**	70,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<10	<100	<1	<1	<100	<1
1,1,2-Trichloroethane	**5**	61	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**<10**	<1	<1	<10	<10	<100	<1	<1	<100	<1
1,1-Dichloroethane	NS	700	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<10	<100	<1	<1	<100	<1
1,1-Dichloroethene	**7**	**180**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	5.85	6.44	**<20**	**10.4**	**2.61**	**<20**	**<20**	**<200**	**12.3**	**8.79**	**<200**	6.04
1,2-Dichloroethane	**5**	38	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<10	<100	<1	<1	<100	<1
2-Butanone	NS	21,000	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<100	<10	<10	<100	<100	<1000	<10	<10	<1000	<10
Acetone	NS	32,000	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<100	<10	<10	<100	<100	<1000	<10	<10	<1000	<10
Benzene	**5**	64	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<5	<5	**<50**	<0.5	<0.5	<50	<0.5
Carbon Disulfide	NS	3,500	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<10	<100	<1	<1	<100	<1
Chloroform	**80**	NS	7.99	3.41	3.56	1.81	<1	<1	<1	<1	<1	<1	1.72	1.88	<10	<1	<1	<10	<10	<100	<1	<1	<100	<3
Toluene	1,000	5,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<10	<100	<1	<1	<100	<1
trans-1,2-Dichloroethene	**100**	**700**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	3.11	4.09	<10	23.7	3.71	<10	<10	<100	15.3	7.55	<100	<100
Xylenes, Total	10,000	50,000	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<30	<3	<3	<30	<30	<300	<3	<3	<300	<3
Field Parameters																								
pH	NS	NS	7.34	-	7.04	7.06	7.34	6.92	7.03	7.34	6.69	6.79	6.97	-	7.04	6.81	7.11	6.93	-	6.93	7.06	-	6.87	6.99
Specific conductance (mS/cm)	NS	NS	0.870	-	0.790	0.782	0.715	0.721	0.741	0.729	0.81	0.851	0.563	-	0.771	0.719	0.692	0.762	-	0.770	0.880	-	0.810	0.825
Temperature (Degrees Celsius)	NS	NS	12.00	-	10.20	15.07	12.25	13.86	14.2	17.72	14.4	16.58	8.4	-	10.97	17.2	12.6	14.98	-	15.3	21.19	-	14.23	15.49
ORP (millivolts)	NS	NS	56.1	-	51.7	-76	56.2	191.5	-81.4	114.6	-16.4	183.6	40.2	-	-36.0	-94.5	-3.1	-24.4	-	-79.2	4.2	-	50.0	134.9
DO (mg/L)	NS	NS	2.68	-	1.77	0.26	2.35	0.72	0.24	2.78	0.45	0.3	0.5	-	0.49	0.2	0.02	0.33	-	0.14	0.55	-	1.97	0.5

Notes:
All Results are in micrograms per liter (ug/L).
mS/cm = milliSiemens per centimeter
mg/L = milligrams per liter
MCL = Environmental Protection Agency's Maximum Contaminant Level
Bold = Compound exceeds MCL
NS = No standard
NR = Not recorded
N = normal sample
FD = field duplicate sample

Golder Associates

Table 1: Summary of Detected Constituents in Groundwater
Former Electrolux Manufacturing Facility
Jefferson, Iowa

			Yellow-Brown Till																										
			MW-47D														MW-56D				MW-57								
			Dec 2012		Mar 2013	Oct 2013	Apr 2014		Jul 2014	Oct 2014	Dec 2014	Mar 2015	Jul 2017	Nov 2017	Jul 2018		Mar 2013	Jul 2017	Nov 2017	Jul 2018	Mar 2013	Apr 2014		Jul 2014	Oct 2014	Jul 2017	Nov 2017	Jul 2018
Analyte	**MCL**	**Iowa DNR**	N	FD	N	N	N	FD	N	N	N	N	N	N	N	FD	N	N	N	N	N	N	FD	N	N	N	N	N
Volatile Organic Compounds (ug/L)																													
Tetrachloroethene	**5**	**1,700**	**<1000**	**<1000**	**<100**	**6.98**	3.56	3.47	<100	**4.04**	<100	4.84	3.91	<100	2.13	2.35	<1	<1	<1	<1	<1	<1	<1	<10	<1	1.02	<10	<1
Trichloroethene	**5**	**76**	**43,300**	**42,700**	**32,000**	**10,200**	**43,100**	**43,200**	**25,300**	**26,700**	**25,500**	**28,800**	**25,800**	**18,500**	**15,000**	**15,200**	<1	<1	<1	<1	**672**	**865**	**953**	**1,100**	**853**	**919**	**576**	**689**
cis-1,2-Dichloroethene	**70**	**350**	**5,480**	**4,900**	**7,340**	**5,500**	**21,900**	**19,500**	**20,900**	**28,800**	**35,700**	**37,000**	**94,400**	**84,000**	**70,900**	**74,400**	<1	<1	<1	<1	4.34	8.11	7.91	<10	8.78	6.53	<10	13.7
Vinyl Chloride	**2**	**10**	**<1000**	**<1000**	**<100**	**134**	**392**	**388**	**492**	**567**	**503**	**491**	**1,500**	**3,310**	**10,600**	**11,100**	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1
1,1,1-Trichloroethane	**200**	70,000	**<1000**	**<1000**	<100	<1	<1	<1	<100	<1	<100	<1	<1	<100	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1
1,1,2-Trichloroethane	**5**	61	**<1000**	**<1000**	**<100**	<1	<1	<1	**<100**	<1	**<100**	<1	<1	<100	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1
1,1-Dichloroethane	NS	700	<1000	<1000	<100	<1	<1	<1	<100	<1	<100	<1	<1	<100	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1
1,1-Dichloroethene	**7**	**180**	**<2000**	**<2000**	**<200**	**116**	**175**	**176**	**<200**	**123**	**<200**	**110**	**158**	**<200**	**168**	**162**	<2	<2	<2	<2	<2	2.97	2.64	<20	<2	<2	<20	<2
1,2-Dichloroethane	**5**	38	**<1000**	**<1000**	**<100**	<1	<1	<1	**<100**	<1	**<100**	<1	<1	<100	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1
2-Butanone	NS	21,000	<10000	<10000	<1000	<10	<10	<10	<1000	<10	<1000	<10	<10	<1000	<10	<10	<10	<10	<10	<10	<10	<10	<10	<100	<10	<10	<100	<10
Acetone	NS	32,000	<10000	<10000	<1000	<10	<10	<10	<1000	<10	<1000	<10	<10	<1000	<10	<10	<10	<10	<10	<10	<10	<10	<10	<100	<10	<10	<100	<10
Benzene	**5**	64	**<500**	**<500**	**<50**	<0.5	<0.5	<0.5	**<50**	<0.5	**<50**	<0.5	<0.5	<50	0.581	0.554	<0.5	<0.5	0.5	0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<5	<0.5
Carbon Disulfide	NS	3,500	<1000	<1000	<100	<1	<1	<1	<100	<1	<100	<1	<1	<100	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1
Chloroform	**80**	NS	**<1000**	**<1000**	**<100**	<1	<1	<1	**<100**	<1	**<100**	<1	<1	<100	<1	<1	1.86	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1
Toluene	1,000	5,000	<1000	<1000	<100	<1	<1	<1	<100	<1	<100	<1	<1	<100	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1
trans-1,2-Dichloroethene	**100**	**700**	**<1000**	**<1000**	<100	**183**	**343**	**161**	<100	**577**	**124**	**321**	**417**	**356**	**545**	**704**	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<10	<1
Xylenes, Total	10,000	50,000	<3000	<3000	<300	<3	<3	<3	<300	<3	<300	<3	<3	<300	<3	<3	<3	<3	<3	<3	<3	<3	<3	<30	<3	<3	<30	<3
Field Parameters																													
pH	NS	NS	7.2	-	7.11	7.06	6.98	-	7.02	6.89	7.25	6.74	7.13	6.09	6.84	-	7.91	7.46	6.93	6.44	7.1	7.07	-	6.97	6.93	7.15	6.76	6.71
Specific conductance (mS/cm)	NS	NS	0.74	-	0.982	1.462	1.238	-	1.119	1.330	1.340	1.310	1.650	1.607	1.608	-	0.685	0.887	1.024	1.000	0.819	0.792	-	0.821	0.792	0.846	0.848	0.942
Temperature (Degrees Celsius)	NS	NS	14.56	-	12.6	19.58	13.62	-	19.04	16.8	12.47	12.38	18.9	14.74	19.03	-	9.49	14.71	10.95	15.65	11.95	12.06	-	14.11	15.2	14.68	13.27	16.43
ORP (millivolts)	NS	NS	-155	-	-19.5	-25.7	-26.3	-	50.4	-122.9	-26	-41	-72.4	-35	-41	-	26.1	64.7	-57.3	177.8	21.0	11.3	-	12.8	-74	-15.6	10.3	49.4
DO (mg/L)	NS	NS	0.29	-	0.45	0.24	0.40	-	0.32	0.17	0.00	0.00	0.62	0.44	0.31	-	0.64	3.77	0.34	0.29	0.34	0.38	-	0.42	0.16	0.23	0.35	0.34

Notes:
All Results are in micrograms per liter (ug/L).
mS/cm = milliSiemens per centimeter
mg/L = milligrams per liter
MCL = Environmental Protection Agency's Maximum Contaminant Level
Bold = Compound exceeds MCL
NS = No standard
NR = Not recorded
N = normal sample
FD = field duplicate sample

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Table 1: Summary of Detected Constituents in Groundwater
Former Electrolux Manufacturing Facility
Jefferson, Iowa

			Yellow-Brown Till						Dark Gray Till													Pleistocene Sand and Gravel						
			MW-66						MW-65													MW-67						
			Nov 2015	Jul 2016		Jul 2017	Nov 2017	Jul 2018	Oct 2013	Apr 2014	Jul 2014	Oct 2014		Dec 2014		Mar 2015		Jul 2016	Jul 2017	Nov 2017	Jul 2018	Nov 2015		Jul 2016	Jul 2017		Nov 2017	Jul 2018
Analyte	**MCL**	**Iowa DNR**	N	N	FD	N	N	N	N	N	N	FD	N	N	FD	N	FD	N	N	N	N	N	FD	N	N	FD	N	N
Volatile Organic Compounds (ug/L)																												
Tetrachloroethene	**5**	**1,700**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	**5**	**76**	3.94	**6.38**	**5.79**	**7.85**	**11.5**	**11.3**	<1	2.42	**44.7**	**799**	**826**	**1,730**	**1,530**	**2,370**	**2,360**	**2,420**	**1,670**	**3,230**	**3,440**	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	**70**	**350**	<1	<1	<1	<1	<1	<1	<1	1.27	2.17	14.5	17.1	22.9	20.8	29.7	28.1	61.3	**760**	**121**	**318**	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	**2**	**10**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.41	1.32	1.89	1.9	<1	1.53	**2.1**	**<100**	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	**200**	70,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	**5**	61	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	NS	700	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	**7**	**180**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-Dichloroethane	**5**	38	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Butanone	NS	21,000	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	NS	32,000	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	**5**	64	<0.5	<0.5	<0.5	<0.5	0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.736	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	0.5
Carbon Disulfide	NS	3,500	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	**80**	NS	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.05	2.16	<1	<1	<1	<1	<1
Toluene	1,000	5,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	**100**	**700**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.99	11.3	10.6	**<100**	<1	<1	<1	<1	<1	<1	<1
Xylenes, Total	10,000	50,000	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Field Parameters																												
pH	NS	NS	6.58	6.79	-	6.99	6.87	6.76	6.67	6.98	6.92	-	7.02	7.20	-	6.69	-	6.87	7.04	6.50	6.80	7.11	-	6.88	7.01	-	6.7	6.46
Specific conductance (mS/cm)	NS	NS	0.755	0.845	-	0.805	0.897	0.881	0.757	0.777	0.912	-	0.94	0.951	-	0.998	-	0.955	0.980	1.035	1.002	0.891	-	0.960	0.909	-	1.022	0.999
Temperature (Degrees Celsius)	NS	NS	12.13	13.91	-	14.24	11.16	15.71	18.97	15.90	17.73	-	16.30	5.63	-	3.58	-	19.71	18.50	13.74	17.78	12.56	-	13.81	17.10	-	10.43	13.87
ORP (millivolts)	NS	NS	-92.3	62.7	-	-22.8	-58.4	84.9	-63.4	-212.4	-65.5	-	-67.2	-4	-	-67	-	-32.8	-118.4	-75.7	-50	-287	-	4.4	-52.4	-	-30.5	40.8
DO (mg/L)	NS	NS	3.46	0.58	-	0.60	0.34	0.27	0.43	0.23	1.57	-	5.96	0.0	-	0.0	-	0.63	0.45	0.23	0.09	4.71	-	0.47	0.86	-	0.34	0.44

Notes:
All Results are in micrograms per liter (ug/L).
mS/cm = milliSiemens per centimeter
mg/L = milligrams per liter
MCL = Environmental Protection Agency's Maximum Contaminant Level
Bold = Compound exceeds MCL
NS = No standard
NR = Not recorded
N = normal sample
FD = field duplicate sample

Prepared by: DFS
Checked by: LDA
Reviewed by: JSP

Golder Associates

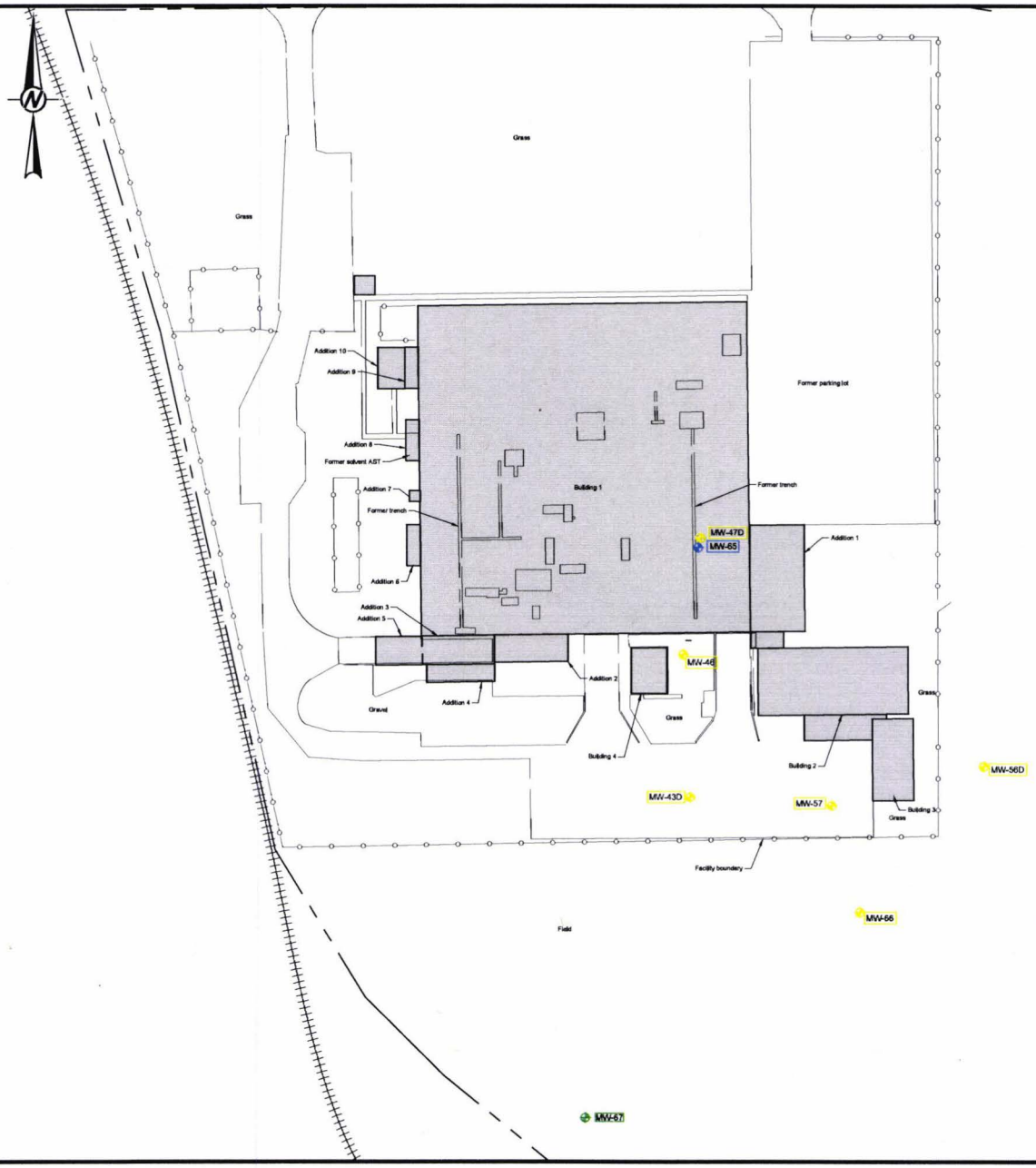
Table 2: Summary of Evidence of Natural Degradation of CVOCs
Former Electrolux Manufacturing Facility
Jefferson, Iowa

Well Screen Geology	Well ID	Sample Date	Sample Type	Dissolved Gases (ug/L)			Metals (mg/L)		Natural Attenuation Parameters (mg/L)			
				Methane	Ethane	Ethene	Iron	Manganese	Alkalinity	Sulfate	Chloride	TOC
Yellow-Brown Till	MW-43D	Oct 2013	N	2.9	0.32	4.3	<0.1	1.19		26.3		2.63
		Apr 2014	N	2.5	0.24	0.3	0.255	0.454		20.1	11	2.25
		Jul 2014	N	0.59	0.032	0.033	<0.1	0.21		21.1	12.3	1.9
		Oct 2014	N	3.8	0.47	0.14	<0.1	0.862		15.2	10.9	1.89
		Jul 2017	N	1.1	0.13	0.011 J	<0.5	0.676	386	15.4	9.54	1.48
		Jul 2018	N	0.44 J	0.028 J	0.017 J	<0.5	0.7	355	18.2	11.1	1.61
	MW-46	Oct 2013	N	20	2.2	2.5	0.391	0.653		22.8		1.82
		Apr 2014	N	12	1.1	0.48	0.21	0.643		27.7	<5	2.08
		Jul 2014	FD	0.4	0.15	0.037	0.252	0.0433		16.8	<5	2.97
		Jul 2014	N	7.1	0.73	0.45	0.136	0.79		25.4	<5	1.42
		Oct 2014	N	7.1	1.4	0.88	0.234	0.772		22	<5	1.69
		Jul 2017	N	2.8	2	1.2	<0.5	0.792	427	24.1	<5	1.16
		Jul 2018	N	1.2	0.92	0.45	<0.5	0.782	395	31.8	<5	1.35
	MW-47D	Oct 2013	N	98	3.4	140	0.474	0.705		16.3		2.12
		Apr 2014	FD	160	2.9	280	1.7	0.747		25	143	2.52
		Apr 2014	N	160	2.7	270	0.613	0.729		25.4	144	2.42
		Jul 2014	N	140	2.3	220	0.82	0.697		19.8	144	2.67
		Oct 2014	N	180	2.8	280	1.32	0.692		13.1	147	2.03
		Dec 2014	N				1.43	0.723	416	12.5	203	2.03
		Mar 2015	N				2.04	0.718	454	9.86	155	2.05
		Jul 2017	N	450	5.7	540	5.6	0.755	391	9.29	228	3.12
		Jul 2018	N	720	6.8	2,000	4.08	0.766	316	8.89	268	6.29
		Jul 2018	FD	590	5.6	1,800	3.79	0.762	321	8.78	261	5.9
	MW-56D	Jul 2017	N	0.35 J	0.013 J	0.029 J	<0.5	0.278	350	137	<5	2.12
		Jul 2018	N	0.50 J	0.0087 J	0.13	<0.5	0.676	375	141	<5	1.48
	MW-57	Apr 2014	FD	2	0.033	0.12	0.202	0.648		55.1	15	2.12
		Apr 2014	N	2	0.098	0.11	0.217	0.701		54.4	15.1	1.89
		Jul 2014	N	1.6	0.025	0.091	0.175	0.686		55.6	15.6	1.76
		Oct 2014	N	2	0.044	0.17	0.368	0.616		47	14.6	2.07
		Jul 2017	N	2.8	0.024 J	0.05 J	1.33	0.619	391	55.2	17.4	2.02
		Jul 2018	N	4.2	0.020 J	0.056 J	2.29	0.68	341	66.6	20.4	2.53
	MW-66	Jul 2017	N	1.8	0.046 J	0.5	<0.5	0.621	443	46.4	<5	<1
		Jul 2018	N	1.9	0.054 J	0.19	<0.5	0.613	400	51.7	<5	1.47
Dark Gray Till	MW-65	Oct 2013	N	91	0.6	0.42	24.3	1.61		8.24		4.36
		Apr 2014	N	110	0.38	3	1.76	0.378		2.16	3.18	4.1
		Jul 2014	N	84	0.18	0.25	1.67	0.352		<5	7.33	3.47
		Oct 2014	FD	44	0.12	0.34	2.92	0.349		1.88	2.23	3.96
		Oct 2014	N	36	0.1	0.29	3.06	0.369		1.98	3.02	3.92
		Dec 2014	N				4.91	0.345	530	1.98	2.26	4.46
		Dec 2014	FD				4.91	0.335	539	2.01	2.38	4.41
		Mar 2015	N				4.53	0.345	585	1.65	2.32	3.81
		Mar 2015	FD				4.15	0.328	579	1.69	2.26	3.83
		Jul 2017	N	890	0.33	4	2.84	0.299	567	<5	<5	3.74
		Jul 2018	N	190	0.37	6.8	3.12	0.297	518	<5	<5	3.56
Pleistocene Sand and Gravel	MW-67	Jul 2017	FD	2.1	0.041 J	0.1	0.643	1.99	484	73.4	<5	1.71
		Jul 2017	N	2.1	0.038 J	0.096 J	0.63	1.93	489	71.8	<5	1.68
		Jul 2018	N	3.0	0.032 J	0.17	0.619	1.65	449	80.5	<5	1.74

Notes:
ALK = Alkalinity, Total
FD = field duplicate sample
N = normal sample
TOC = Total Organic Carbon
VOCs = Volatile Organic Compounds
J = estimated detection
NC=not collected, due to the slow recharge rates in some wells Golder was unable to fill all of the sample bottles during the July/August 2017 sampling event.

Prepared by: DFS
Checkedy by: LDA
Reviewed by: JSP

Golder Associates



LEGEND

- Approximate Site Property Boundary
- Fence
- Edge of gravel
- MW-59 — Monitoring well screened in Yellow/Brown Till
- MW-62 — Monitoring well screened in Dark Grey Till
- MW-67 — Monitoring well screened in Pleistocene Sand and Gravel
- Former Buildings (slab remains)

NOTES

1.) BM #1 elev. = 1052.49 (NAVD 88) center top non-operating bolt on fire hydrant Northwest of main building.

2.) JEO consulting group did not find useful NGS monuments in the Jefferson area. A USGS 24,000k Topographic map elevation (1054.00) at the intersection of Mulberry Street and East Central Street as the assumed NAVD 88 elevation. This elevation agreed with the elevation generated from Geoid-09.

3.) The coordinates for this site are approximate Iowa State Plane North 1401 with a ground scale factor of 1.0000463418.

REFERENCES

Basemap taken from JEO Consulting Group, Inc. drawing titled, "Electrolux Home Products base map", dated 11/21/10, revised May 2012.

FIGURE NARRATIVE

This figure shows the former buildings and monitoring wells subject to semi-annual sampling at the former Electrolux Home Products facility in Jefferson, Iowa. The features shown on the concrete slab are locations of former concrete-lined floor pits and drains.

0 30 60 90
SCALE FEET

PROJECT
ELECTROLUX HOME PRODUCTS
JEFFERSON, IOWA

TITLE
SITE PLAN ILLUSTRATING MONITORING WELL LOCATIONS

GOLDER

PROJECT No.		103-8730501	FILE No.	10387305\M003_8
DESIGN	DFS	2018-06-29	SCALE	AS SHOWN
CADD	RWC	2018-06-29	FIGURE	1
CHECK	DFS	2018-06-29		
REVIEW	APTM	2018-06-29		