

US EPA ARCHIVE DOCUMENT

AMT, Inc. Facility
Derekwood, USA

**Supplemental Site Characterization Data
for Corrective Action Workshop
Case Study**

REPORT # 2

Summary: This report includes the most recent data from the identified wells. Some of these wells (for example, those with organic contaminants) have been sampled occasionally over the last four years. The concentration of contaminants in these wells have been found to be slowly decreasing over time.

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Table 2A: AMT, Inc.
Supplemental Groundwater Characterization Data
 (Reported in ug/l)

Well/Location ^{1,2} (State/Federal Standard)	TCA ³ (200 ug/l)	DCA ⁴ (70 ug/l)	DCE ⁵ (7 ug/l)	Xylene (530 ug/l)	Chromium VI ⁶ (100 ug/l)	Barium ⁷ (1,000 ug/l)	Nickel ⁸ (100 ug/l)	Lead ⁹ (15 ug/l)
MW-1A	15	NA	NA	NA	ND(<5)	ND(<1)	ND(<20)	ND(<3)
MW-1B	NA	NA	NA	NA	ND(<5)	ND(<1)	ND(<20)	ND(<3)
MW-2A	34	NA	NA	NA	95	2,600	ND(<20)	ND(<3)
MW-2B	5.5	NA	NA	NA	ND(<5)	ND(<1)	ND(<20)	ND(<3)
MW-3A	ND (<1)	NA	NA	NA	280	4,600	ND(<20)	ND(<3)
MW-3B	ND (<1)	NA	NA	NA	ND(<5)	ND(<1)	ND(<20)	ND(<3)
MW-4A	ND (<1)	NA	NA	NA	ND(<5)	ND(<1)	ND(<20)	ND(<3)
MW-5A	1,900	300	87	NA	NA	NA	NA	NA
MW-5B	44	8.1	2.5	NA	NA	NA	NA	NA
MW-6A	1	NA	NA	83	NA	NA	NA	NA
MW-7A	150	25	8.8	NA	NA	NA	NA	NA
MW-7B	320	67	34	NA	NA	NA	NA	NA
MW-9A	1	NA	NA	NA	80	600	ND(<20)	ND(<3)
MW-9B	8	NA	NA	NA	ND(<5)	ND(<1)	ND(<20)	ND(<3)
MW-10A	ND(<1)	1.2	ND(<1)	NA	NA	NA	NA	NA
MW-10B	ND(<1)	1.7	ND(<1)	NA	NA	NA	NA	NA
MW-11A	1,300	190	100	NA	NA	NA	NA	NA
MW-11B	420	210	45	NA	NA	NA	NA	NA
MW-11C	220	90	15	NA	NA	NA	NA	NA

Table 2A: AMT, Inc.
Supplemental Groundwater Characterization Data
(Reported in ug/l)

MW-12A	240	140	32	NA	NA	NA	NA	NA
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Supplemental Groundwater Characterization Data
 (Reported in ug/l)

Well/Location ^{1,2} (State/Federal Standard)	TCA ³ (200 ug/l)	DCA ⁴ (70 ug/l)	DCE ⁵ (7 ug/l)	Xylene (530 ug/l)	Chromium VI ⁶ (100 ug/l)	Barium ⁷ (1,000 ug/l)	Nickel ⁸ (100 ug/l)	Lead ⁹ (15 ug/l)
MW-12B	830	300	120	NA	NA	NA	NA	NA
MW-12C	18	ND(<1)	ND(<1)	NA	NA	NA	NA	NA
MW-13A	1.1	ND(<1)	ND(<1)	NA	NA	NA	NA	NA
MW-14A	170	61	ND(<1)	NA	NA	NA	NA	NA
MW-14B	480	300	57	NA	NA	NA	NA	NA
MW-15A	NA	NA	NA	<2	NA	NA	NA	NA
MW-16A	NA	NA	NA	<2	NA	NA	NA	NA
MW-17A	61	460	16	NA	NA	NA	NA	NA
MW-18A	ND (<1)	NA	NA	NA	ND(<5)	ND(<1)	ND(<20)	ND(<3)
MW-19A	ND (<1)	ND (<1)	ND (<1)	NA	NA	NA	NA	NA
MW-20A	ND (<1)	ND (<1)	ND (<1)	NA	NA	NA	NA	NA
MW-21A	ND (<1)	ND (<1)	ND (<1)	NA	NA	NA	NA	NA
MW-22A	ND (<1)	ND (<1)	ND (<1)	NA	ND(<5)	ND(<1)	ND(<20)	ND(<3)
MW-23A	ND (<1)	ND (<1)	ND (<1)	ND (<2)	NA	NA	NA	NA
MW-24A	ND (<1)	ND (<1)	ND (<1)	ND (<2)	NA	NA	NA	NA
MW-25A	ND (<1)	ND (<1)	ND (<1)	ND (<2)	NA	NA	NA	NA
Smith Residential Well ¹⁰	ND (<1)	ND (<1)	ND (<1)	NA	NA	NA	NA	NA
All residential potable wells south of site	ND (<1)	ND (<1)	ND (<1)	ND (<2)	ND(<5)	ND(<1)	ND(<20)	ND(<3)
SW-1	ND (<1)	ND (<1)	ND (<1)	ND (<2)	ND (<5)	ND (<1)	ND (<20)	ND (<3)

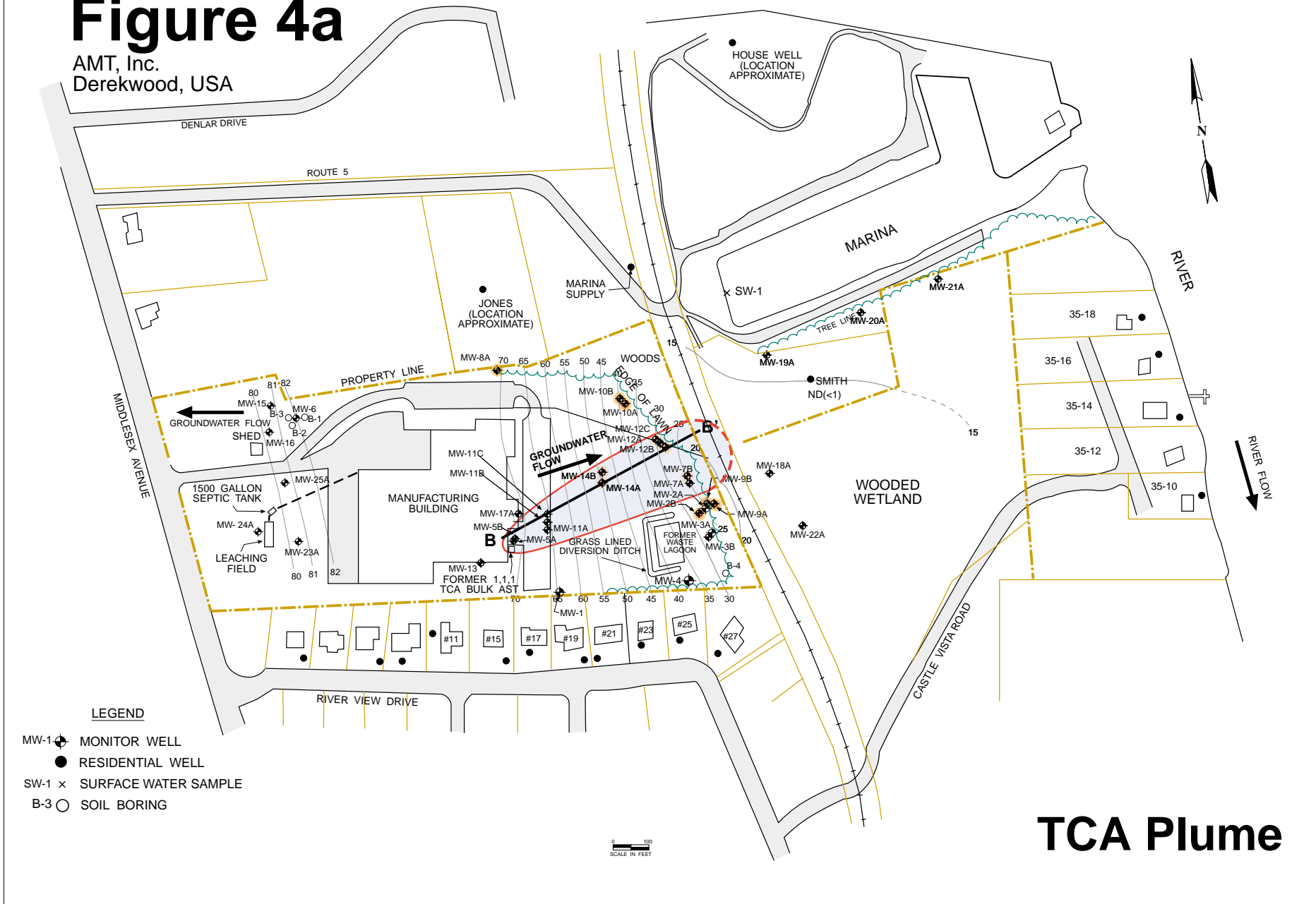
Table 2A: AMT, Inc.
Supplemental Groundwater Characterization Data
(Reported in ug/l)

Footnotes:

1. Data from these well is taken from site characterization activities conducted subsequent to closure of waste lagoons as part of a State cleanup action.
 2. Locations: A = Shallow Overburden; B = Deeper Overburden; C = Bedrock
 3. State Department of Environmental Protection Drinking Water Well Ground-water Protection Criteria for 1,1,1-Trichloroethane (TCA) = 200 ug/l
 4. State Department of Environmental Protection Drinking Water Well Ground-water Protection Criteria for 1,1-Dichloroethane (DCA) = 70 ug/l
 5. State Department of Environmental Protection Drinking Water Well Ground-water Protection Criteria for 1,2-Dichlorethylene (DCE) = 7 ug/l
 6. State Department of Environmental Protection Drinking Water Well Ground-water Protection Criteria for Xylene = 530 ug/l
 7. Federal Clean Water Act MCL for Chromium = 100 ppb
 8. Federal Clean Water Act MCL for Barium = 2,000 ppb
 9. State Department of Environmental Protection Drinking Water Well Ground-water Protection Criteria for Nickel = 100 ug/l
 10. State Department of Environmental Protection Drinking Water Well Ground-water Protection Criteria for Lead = 15 ug/l
 11. Data from the Smith well is based on a sampling event by the Health Department and on sampling by the owner/operator. Smith well depth is 565 feet. Well is cased 50 feet into bedrock and the pump intake is set 50 feet above the bottom of the well. Well intake is located at approximately 515 feet.
- ND = Not Detected (MDLs)
NA = Not Analyzed

Figure 4a

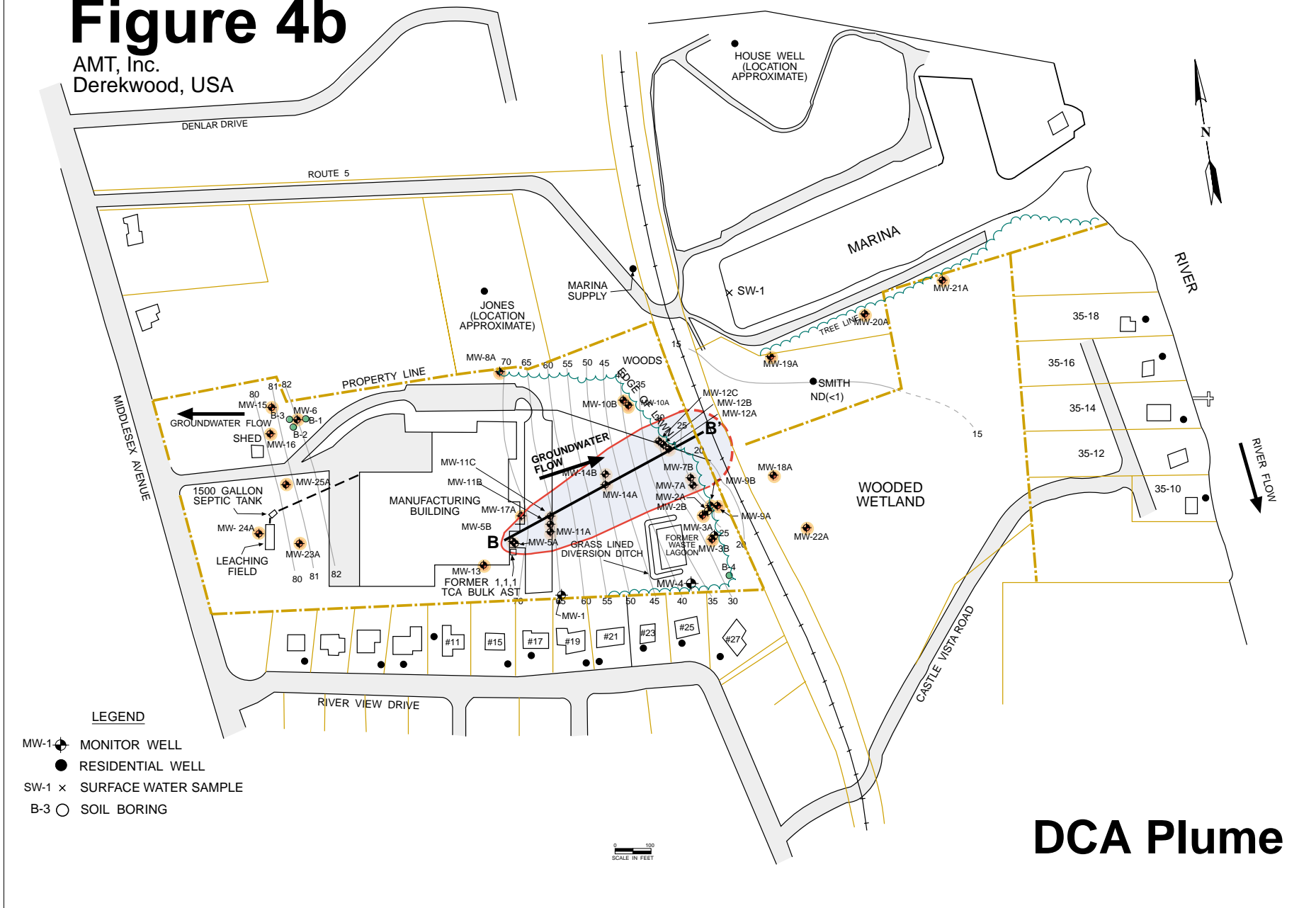
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TCA Plume

Figure 4b

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DCA Plume

Figure 4c

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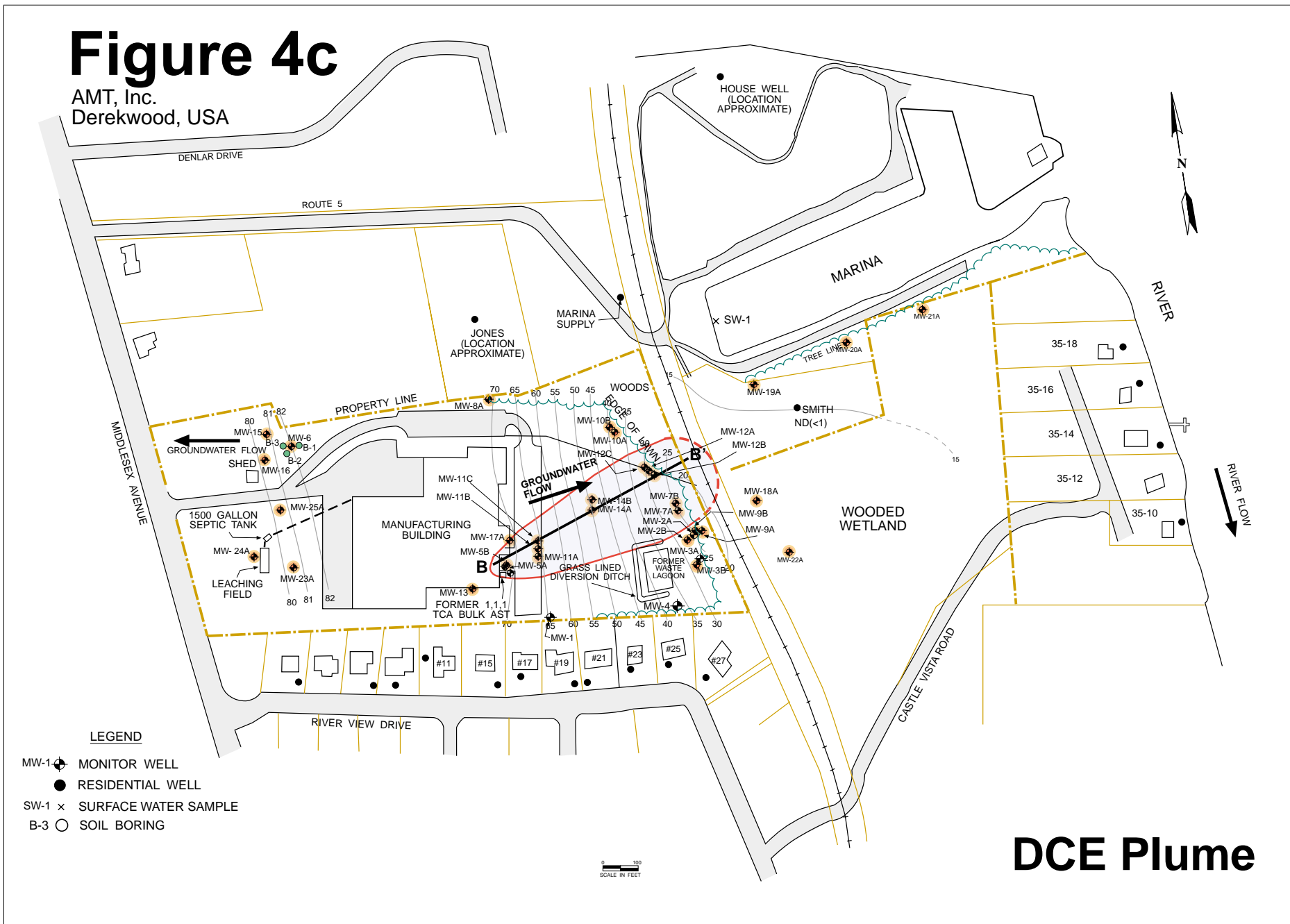


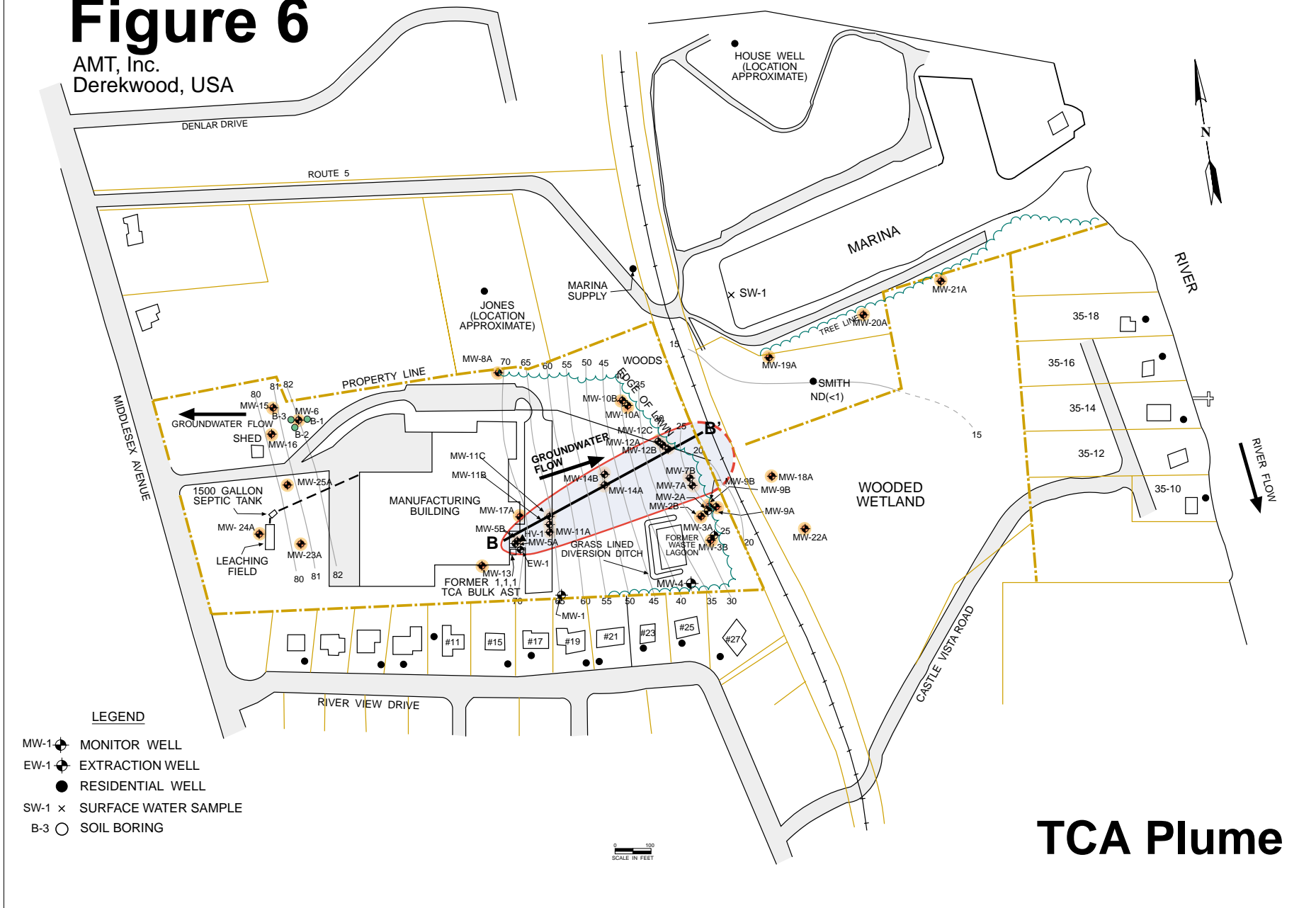
Figure 5

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Figure 6

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TCA Plume