



October 2, 2015

Mr. Tauren Beggs
Wisconsin Department of Natural Resources
2984 Shawano Avenue
Green Bay, WI 54313-6727

RE: Site work plan for an investigation at the Allyn property at 111 Steele St., Algoma, WI; BRRS #02-31-564071; OMNNI project number N2162C15.

Dear Mr. Beggs,

OMNNI Associates has been contracted by Harmon Allyn to perform a site investigation of subsurface conditions on the above property. The site is located at 111 Steele St. in the City of Algoma, Wisconsin. (See site location map and site detail map, attached.)

A Phase I environmental site assessment was carried out at the site in August and September of 2014 by OMNNI Associates. The site housed a dry-cleaning operation from 1948 until 1981. Dry-cleaning fluid was stored outside the building in drums, and transferred by hose into the dry-cleaning room. Fuel oil was formerly stored at the site in a 200-gallon aboveground storage tank and a 6,000-gallon underground storage tank. The tank areas were formerly outside the building, but are presently under a building addition.

A Phase II soil and groundwater investigation was carried out in February and March of 2015 by OMNNI Associates. Site activities are documented in a report entitled "*Phase II Subsurface Investigation at Allyn Property*" (March 2, 2015).

A boring/temporary well was placed outside the building immediately west of the dry-cleaning room in the former drum storage area, and immediately east of the fuel oil underground storage tank, downgradient of the former tanks and dry-cleaning operations. The groundwater depth was found to be 19 feet below the surface. The groundwater flow direction at the site is anticipated to be to the east-northeast to the nearby Ahnapee River.

Chlorinated solvents were detected in the soil at levels above groundwater pathway residual contaminant levels in the boring west of the building, and in the groundwater at levels above enforcement standards at both sample locations. (See soil and groundwater tables and site detail map, attached.) The release was reported to the DNR.

OMNNI proposes to install and sample five borings to further define the extent of contamination at the site. A 25-foot monitoring well and a 40-foot piezometer will be placed in the former outside drum storage area west of the building. (See proposed monitoring well locations map, attached.) Three additional 25-foot monitoring wells will be installed, one to the west-southwest of the source area well nest to obtain upgradient information, and wells to the east-northeast and east-southeast of the nest to obtain downgradient conditions.

The borings will be continuously sampled by field screening with a photoionization detector (PID). Since soil conditions in the upper 25-foot interval in the drum storage area were assessed during the Phase II investigation, the only field screening at that location will take place below 25 feet in the piezometer. A soil sample will be collected from each boring and delivered to a certified laboratory for analysis of volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), and lead. Since VOCs and lead were tested in the Phase II boring in the drum storage area, only PAHs will be tested in the soil sample from the 25-foot monitoring well proposed in that location.

Groundwater monitoring wells and a piezometer will be installed in the borings, and will be sampled for VOCs, PAHs, and lead.

If you have any questions concerning this phase of work for the site, please feel free to contact OMNNI. Because of driller availability, we anticipate scheduling the installation of the borings in approximately four weeks. When I have a confirmed date, I will notify you.

Sincerely,



Don Brittnacher

"I, Don Brittnacher, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."



(Professional Geologist)

G-462

(P.G. Number)


Enclosures

cc: Harmon Allyn
c/o John Emery
2448 Robin Ln.
Green Bay, WI 54303



Source: Mapquest, reviewed 10/2/2015.



Site Location Map	
Allyn Property 111 Steele St. Algoma, WI	
	Project Number: N2162C15
	Date: October 2, 2015
One Systems Drive, Appleton, Wisconsin 54914-1654 Phone: (920) 735-6900 Fax: (920) 830-6100	

Site Detail Map, Showing Proposed Boring Locations

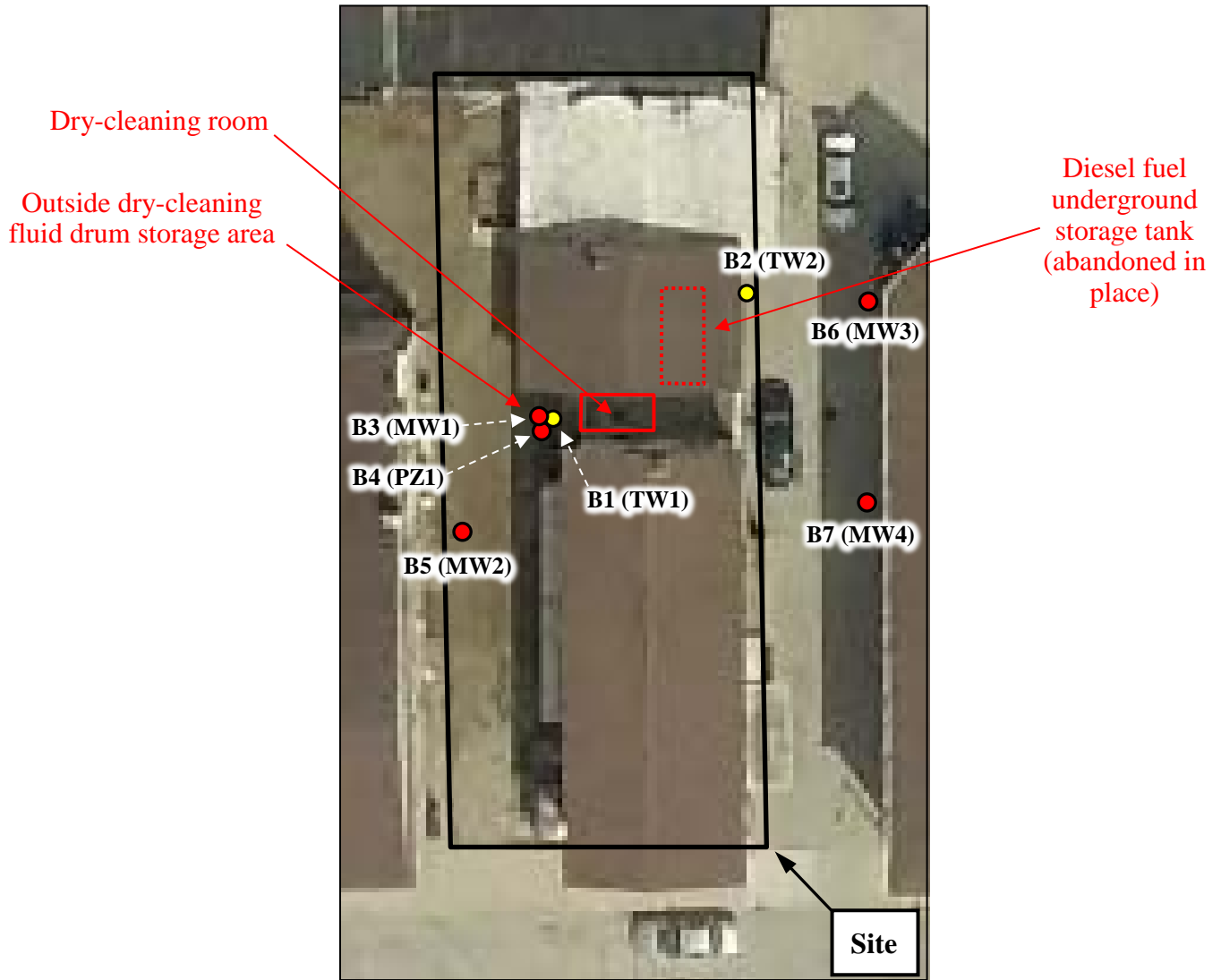


Table 1 - Summary of Laboratory Analysis - Soil Samples

Boring & Sample	Sample Date	Depth (feet)	PID (iui)	DRO (mg/kg)	GRO (mg/kg)	Detected VOCs (mg/kg)								Lead (mg/kg)		
						tert-Burylbenzene	sec-Butylbenzene	n-Butylbenzene	p-Isopropyltoluene	Tetrachloroethene	Toluene	Trichloroethene	1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene	
Groundwater Pathway RCLs				-	-	-	-	-	-	0.0045	1.1072	0.0036	1.3821	27		
Direct Contact Non-Industrial RCLs				-	-	-	-	-	-	30.7	818	1.26	89.8	182	400	
B1-1	02/12/15	0 - 2.5	0													
B1-2		2.5 - 5	0													
B1-3		5 - 7.5	0													
B1-4		7.5 - 10	0													
B1-5		10 - 12.5	0													
B1-6		12.5 - 15	0													
B1-7		15 - 17.5	0													
B1-8		17.5 - 20	0													
B1-9		20 - 22.5	0													
B1-10		22.5 - 25	0	5,040	2,980	0.36 "J"	1.72	8.0	7.0	106	0.33 "J"	0.46 "J"	6.0	4.5	5.92	
B2-1	02/12/15	0 - 2.5	0													
B2-2		2.5 - 5	0													
B2-3		5 - 7.5	0													
B2-4		7.5 - 10	0													
B2-5		10 - 12.5	0													
B2-6		12.5 - 15	10.7													
B2-7		15 - 17.5	5.9													
B2-8		17.5 - 20	10.7													
B2-9		20 - 22.5	106	129	22.8	< 0.035	< 0.036	< 0.086	< 0.056	< 0.054	< 0.031	< 0.042	< 0.078	< 0.089	1.44	
B2-10		22.5 - 25	0													

RCL = residual contaminant level

"J" = Analyte detected between the limit of detection and the limit of quantification

6.0 = detected above the groundwater pathway RCL.

106 = detected above the groundwater pathway and non-industrial direct contact RCLs.

(Note that sample was taken 22.5 - 25 feet below the ground surface.)

TABLE 2
SUMMARY OF LABORATORY ANALYSIS
GROUNDWATER SAMPLES

PARAMETER (µg/L)	ES	PAL	TW1	TW2
SAMPLE DATE			2/12/15	
DETECTED VOCs (ug/l)				
CIS-1,2-DICHLOROETHENE	-	-	142	32
TETRACHLOROETHENE	5	0.5	1,280	35
TRICHLOROETHENE	5	0.5	41 "J"	6.4 "J"
1,2,4-TRIMETHYLBENZENE	480	96	< 80	24 "J"
1,3,5-TRIMETHYLBENZENE			< 75	< 15
VINYL CHLORIDE	0.2	0.02	< 8.5	30.5
DETECTED PAHs (ug/l)				
ACENAPHTHENE	-	-	< 0.2	0.059 "J"
ACENAPHTHLYNE	-	-	< 0.21	0.08
BENZO(A)ANTHRACENE	-	-	< 0.19	0.019 "J"
FLUORENE	400	80	0.249 "J"	0.033 "J"
1-METHYLNAPHTHALENE	-	-	2.44	0.4
2-METHYLNAPHTHALENE	-	-	4.3	0.078
NAPHTHALENE	100	10	4.2	0.098
PHENANTHRENE	-	-	0.43 "J"	< 0.017
LEAD (ug/l)	15	1.5	6.8	3.6

ES = enforcement standard

PAL = preventive action limit

"J" = Analyte detected between the limit of detection and the limit of quantification

1,280 = sample concentration detected above the enforcement standard

6.8 = sample concentration detected above the preventive action limit