

From: Erica Klingfus <eklingfus@msa-ps.com>
Sent: Wednesday, February 12, 2020 4:01 PM
To: Flietner, Barbara J - DNR
Subject: RE: Webster VOC 02-07-000337
Attachments: D.2.b Detailed Site Map (Murray Apt).pdf; D.2.b Detailed Site Map (Tap Bar).pdf; 2407_001.pdf

Barb,

Please see our responses to your comments below. Let me know if it would be beneficial to set up a time for a phone call to discuss.

Thanks,

Erica

From: Flietner, Barbara J - DNR <Barbara.Flietner@wisconsin.gov>
Sent: Friday, February 7, 2020 1:45 PM
To: Erica Klingfus <eklingfus@msa-ps.com>
Subject: RE: Webster VOC 02-07-000337

Hi Erica,

I apologize for the delay in getting back to you. I did not have a formal review and fee request for this site, so I put it lower on my priority list.

Upon review at committee (1/9/20), there were some notes to consider for future work.

It was suggested that both shallow and deep groundwater samples of soil borings continue to be collected (especially downgradient) to verify plume of contaminants noted previously which were known to be diving in the groundwater plume. This will also assist with proper screening and location of monitoring wells. It is suggested that MWs be evaluated in some of the proposed soil boring locations to appropriately delineate the plume.

Is the committee asking that the previously sampled boring locations be resampled, or are they suggesting that both shallow and deep samples (rather than just shallow samples) be collected at the proposed boring locations shown on the map submitted with the previous report?

Assuming it is the latter, there were several reasons we were limiting additional sampling to just the shallow interval:

- There were no contaminant detections in the deep intervals in the grab groundwater samples collected last year (only shallow intervals).
- The elevated concentrations previously detected in piezometer well 91-2B were attributed to the historical pumping of downgradient municipal wells near the site, which had apparently caused the contaminant plume to dive deeper. When pumping of these wells stopped, contaminant concentrations dropped (below the ES in 2006 and below laboratory detection limits in 2017).
- Monitoring well 91-5A had also shown elevated concentrations of PCE when the municipal wells were being pumped (in the shallow interval only). Other than two detections above the PAL in

June 2005 and 2006, there have been no contaminant detections above laboratory detection limits in piezometer well 91-5B.

- Groundwater elevations collected by MSA between July 2016 and December 2017 at well nest 91-2 have indicated an upward vertical groundwater gradient (lower groundwater elevations in the water table well vs the piezometer well). Measurements collected at well nest 91-5 have indicated a relatively neutral vertical gradient (neither upward nor downward).

MSA was proposing that the additional Geoprobe grab groundwater samples be collected first to ensure the plume has been delineated prior to selecting monitoring well locations. Following plume delineation, MSA proposes that water table wells be installed as necessary.

Confirm location of GP12 and neighboring property petroleum plume (map of plume?).

There were no groundwater samples collected between the tank basin (TB-10 was only advanced to 15 feet bgs to collect soil samples) and GP-12 to the west. Petroleum groundwater contamination was encountered monitoring well MW-10, but not above PALs. I'm also not sure how deep this groundwater sample was collected, as the boring information only indicates it was advanced to 15 feet bgs (groundwater we have encountered has been deeper than 30 feet). We aren't really able to draw a plume map connecting GP-12 to Rob's Amoco as there were no samples collected in this area of the Rob's Amoco site. I've attached the map from the Rob's Amoco closure request in the BRRTS database.

As-builts for the vapor mitigation system were suggested to be provided, as well as the status of the vapor points, so additional sampling could be conducted if viable or requested.

I've attached maps for the vapor mitigation systems installed at the Tap Bar and the Murray Apartment. The maps (along with additional information regarding the systems) were included with the closure request submitted in July 2018. All sub-slab vapor points installed by MSA are still in place.

If you have additional questions or concerns, please feel free to contact me. Thank you!
Barb

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Barb Flietner

Phone: (715) 762-1351

Barbara.Flietner@Wisconsin.gov

From: Erica Klingfus <eklingfus@msa-ps.com>

Sent: Friday, February 7, 2020 11:01 AM

To: Flietner, Barbara J - DNR <Barbara.Flietner@wisconsin.gov>

Subject: RE: Webster VOC 02-07-000337

Hi Barb – wondering if you have had a chance to review these results and our September letter report? Let me know if you have questions – thank you!

From: Erica Klingfus
Sent: Friday, December 13, 2019 12:02 PM
To: 'Flietner, Barbara J - DNR' <Barbara.Flietner@wisconsin.gov>
Cc: Shafel, Kathleen S - DNR <Kathleen.Shafel@wisconsin.gov>; Jayne Englebert <jenglebert@msa-ps.com>
Subject: RE: Webster VOC 02-07-000337

Yes, these sampling results were recently received. Please see the attached lab report and table. Feel free to contact me with any questions.

From: Flietner, Barbara J - DNR <Barbara.Flietner@wisconsin.gov>
Sent: Friday, December 13, 2019 11:43 AM
To: Erica Klingfus <eklingfus@msa-ps.com>
Cc: Shafel, Kathleen S - DNR <Kathleen.Shafel@wisconsin.gov>
Subject: Webster VOC 02-07-000337

Hello Erica,

I had noted in your Sept 25, 2019 letter that you were planning on conducting another quarterly round of groundwater samples in October 2019. Were those samples collected? If so, can you please send an updated table and I will complete review and get back to you on this site. Thank you!

Barb

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Barbara J. Flietner, P.G., C.P.G.
Hydrogeologist
Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
875 4th Ave. South
Park Falls, WI 54552
Phone: (715) 762-1351
Barbara.Flietner@Wisconsin.gov

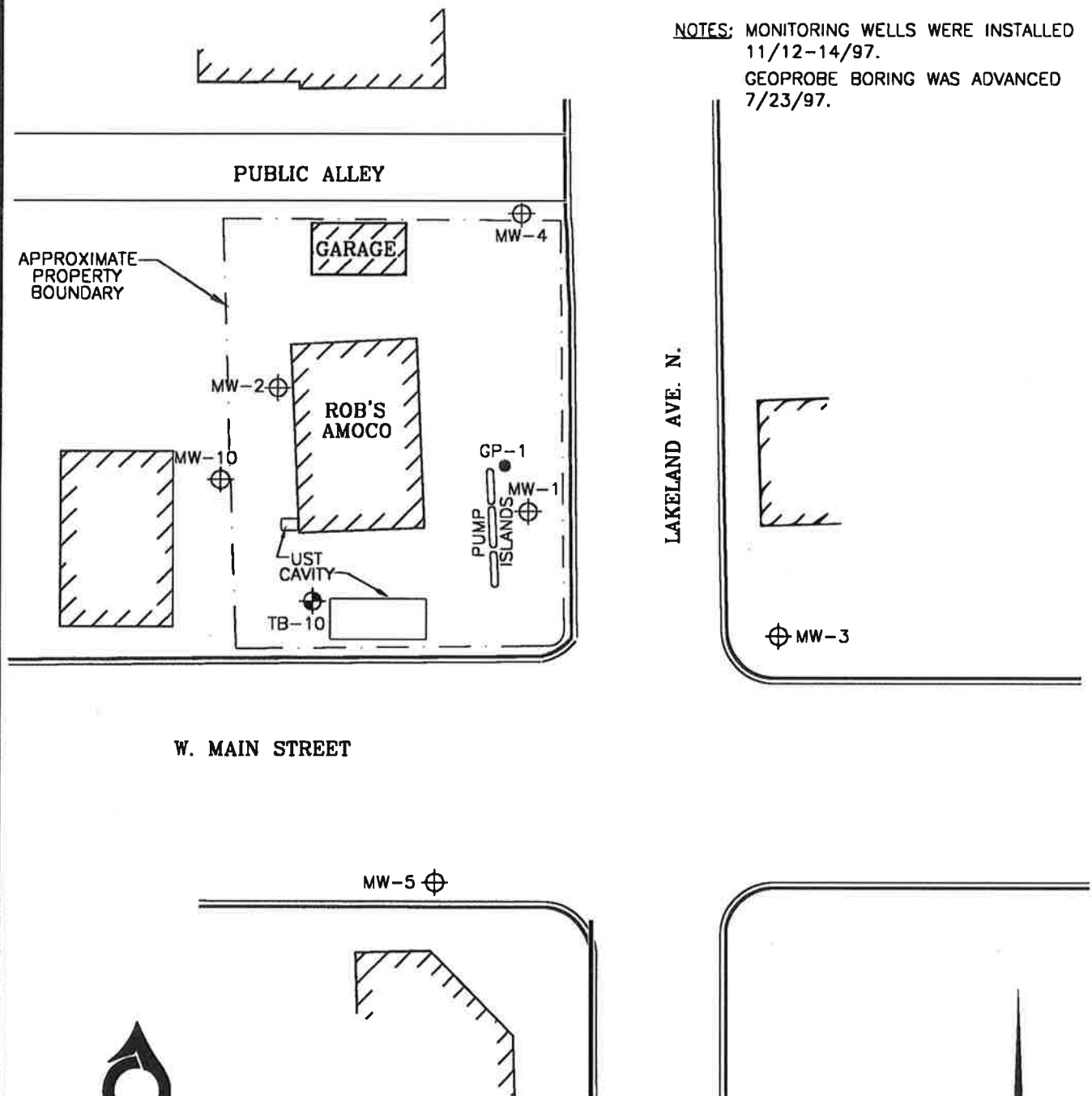


DRAWING NO. 97.354R5
 DRAWN BY: LME
 CHECKED BY: PUD
 4/14/98
 5/4e
 APPROVED BY: [Signature]
 5/20/98

LEGEND

- ⊕ MONITORING WELL
- GEOPROBE BORING
- ⊕ TEST BORING

NOTES: MONITORING WELLS WERE INSTALLED 11/12-14/97.
 GEOPROBE BORING WAS ADVANCED 7/23/97.



Fluid Management
 A Division of **ENVIROGEN, Inc.**

**Soil Boring/
 Monitoring Well Configuration
 Rob's Amoco Station Site
 Webster, Wisconsin**

FIGURE NO.
5

THE INTERPRETATIONS IN THIS FIGURE ARE BASED ON KNOWN POINTS IN TIME AND SPACE AND ARE INTEGRAL TO A WRITTEN REPORT AND SHOULD BE REVIEWED IN THAT CONTEXT.

TABLE 6

Groundwater Sample Laboratory Analytical Results
 Rob's Amoco Site
 Webster, Wisconsin

Well	Parameter												
	GRO (ppm)	DRO (ppm)	Dissolved Lead (ppm)	Benzene	Ethyl-benzene	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB	MTBE	Naphthalene	1,2-Dichloroethane	Tetra-chloroethene
MW-1	<0.05	<0.10	<0.00089	<0.10	<0.25	<0.10	<0.25	<0.10	<0.10	<0.25	<0.10	<0.25	<0.25
MW-2	<0.05	<0.10	<0.00089	<0.10	<0.25	<0.10	<0.25	<0.10	<0.10	<0.25	<0.10	<0.25	2.5
MW-3	<0.05	<0.10	<0.00089	<0.10	<0.25	<0.10	<0.25	<0.10	<0.10	<0.25	<0.10	<0.25	<0.25
MW-4	<0.05	<0.10	<0.00089	<0.10	<0.25	<0.10	<0.25	<0.10	<0.10	<0.25	<0.10	<0.25	3.2
MW-5	<0.05	<0.10	<0.00089	<0.10	<0.25	<0.10	<0.25	<0.10	<0.10	<0.25	<0.10	<0.25	<0.25
MW-10	60	0.36	<0.00098	<0.10	5.8	0.15	4.1	9.1	1.1	<0.25	5.1	<0.25	3.1
NR 140 ES	NS	NS	15	5	700	343	620	NS	NS	60	40	5	5
NR 140 PAL	NS	NS	1.5	0.5	140	68.6	124	NS	NS	12	8	0.5	0.5

(Continued)

Notes:
 All results in ppb unless otherwise noted. Samples MW-1 through MW-5 were collected on December 3, 1997. Sample MW-10 was collected on May 6, 1998.
 No polycyclic aromatic hydrocarbons were detected in a groundwater sample collected from MW-1.



Cross hatching indicates value equals or exceeds the NR 140 preventive action limit

- DRO: Diesel range organics
- GRO: Gasoline range organics
- MTBE: Methyl t-butyl ether
- TMB: Trimethylbenzene
- NS: No standard
- ES: Enforcement standard
- PAL: Preventive action limit

Checked by: DLB
 Approved by: [Signature]

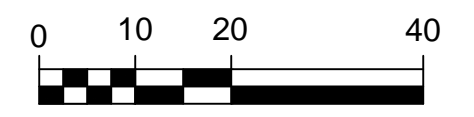
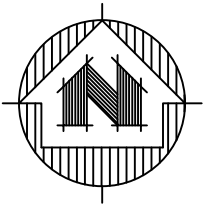


FIGURE D.2.b

DETAILED SITE MAP
 MURRAY APARTMENTS
 26507 LAKELAND AVE
 WEBSTER, WISCONSIN

MSA ENGINEERING | ARCHITECTURE | SURVEYING
 FUNDING | PLANNING | ENVIRONMENTAL
 332 W Superior Street, Duluth MN 55802
 (218) 722-3915 www.msa-ps.com

DRAWN BY	CDS	DATE	06/05/18	SHEET NO.	D.2.b
CHECKED BY	EAK	SCALE	AS SHOWN	FILE NO.	17644000

File Path: \\msa-ps.com\Projects\17644000\17644000.dwg | Printed: 06/05/18 10:23:00 AM | Plot: 17644000.dwg | Plotter: HP DesignJet 500 | Scale: 1:1

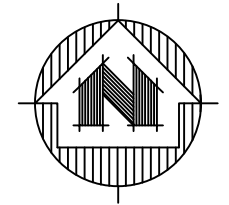
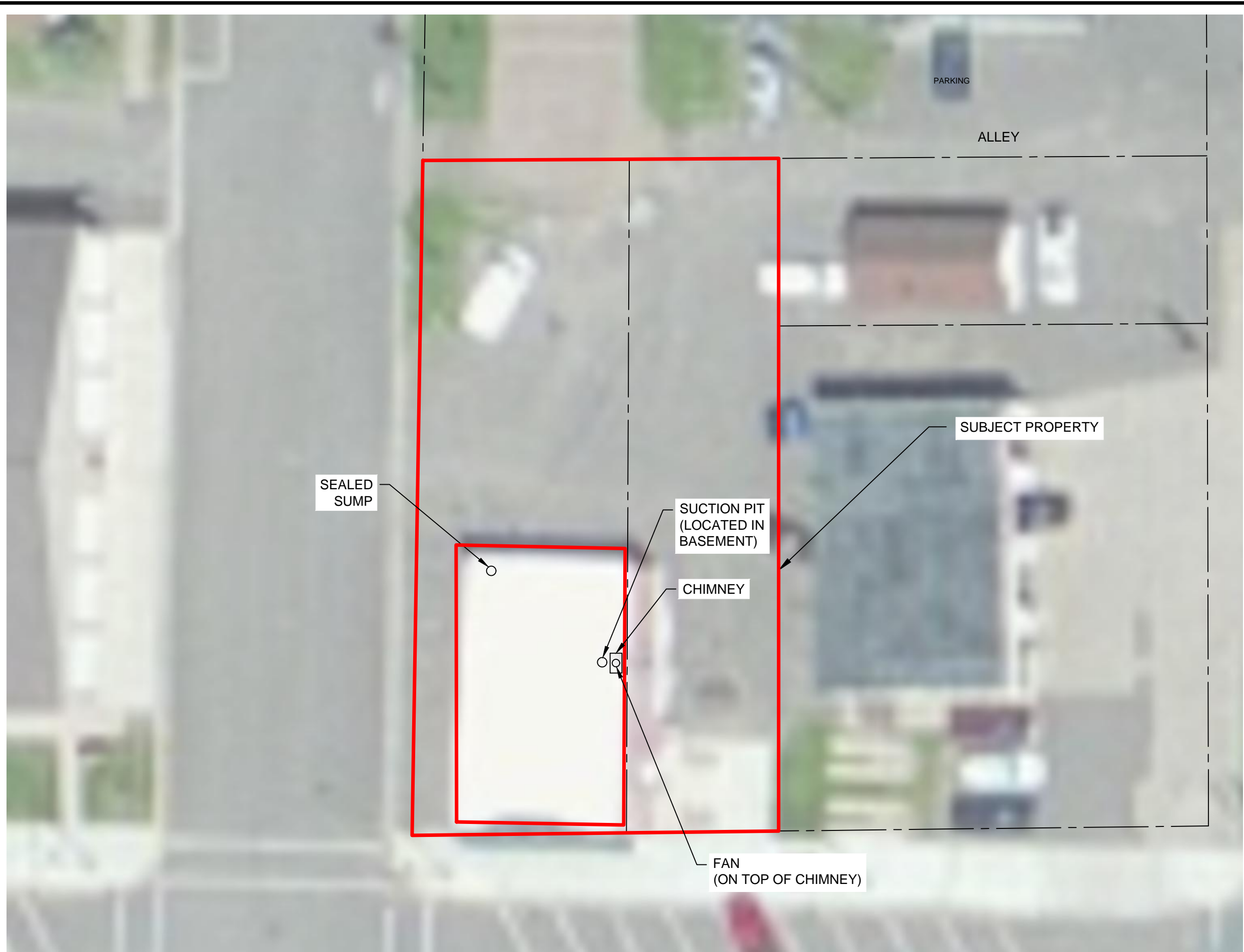


FIGURE D.2.b

DETAILED SITE MAP
TAP BAR
7408 MAIN ST
WEBSTER, WISCONSIN

MSA ENGINEERING | ARCHITECTURE | SURVEYING
FUNDING | PLANNING | ENVIRONMENTAL
332 W Superior Street, Duluth MN 55802
(218) 722-3935 www.msa-ps.com
© MSA Professional Services, Inc.

DRAWN BY	CDS	DATE	06/05/18	SHEET NO.	D.2.b
CHECKED BY	EAK	SCALE	AS SHOWN	FILE NO.	17644000

File Path: \\msa-ps.com\Projects\17644000\Drawings\17644000-D.2.b.dwg (17644000-D.2.b.dwg) Date: 06/05/18 10:00:00 AM