

From: Klauk, Robert H - DNR
Sent: Thursday, December 21, 2017 8:57 AM
To: Neste, David E - DNR
Subject: FW: Former Leo Tucker Auto Salvage Update, BRRTS #02-38-169979
Attachments: 2012.09.24 MW LOCATION.pdf; Figure 2 Soil Boring Locations.pdf; T4A-GWData-RCRAMetals.pdf; Table 3a - Laboratory Analytical Results RCRA Metals and PCBs.pdf; Table 3b - Laboratory Analytical Results VOCs.pdf; Table 3c - Laboratory Analytical Results PAHs.pdf; Table 1 - Soil Field Screening.pdf

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Robert Klauk

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From: Brand, Jeff [mailto:Jeff.Brand@stantec.com]
Sent: Wednesday, December 20, 2017 4:09 PM
To: Klauk, Robert H - DNR <Robert.Klauk@wisconsin.gov>
Cc: Caine, Lynelle <Lynelle.Caine@stantec.com>
Subject: Former Leo Tucker Auto Salvage Update, BRRTS #02-38-169979

Stantec is providing a project status update for the Former Leo Tucker Auto Salvage (BRRTS# 02-38-169979), N6817 Left Foot Lake Road, Crivitz, Wisconsin (the Site). This email presents the results of the additional soil sampling at the Site to date.

On October 25, 2017 Stantec mobilized to the site to advance additional soil borings as requested by the WDNR in areas where solid waste had formerly been present. Upon arriving on-site, it appeared that the piles of tires and some of the solid waste had been removed, however, solid waste consisting of miscellaneous debris, empty automobile gas tanks, etc. still remained on-site. Stantec proceeded with advancing six additional soil borings in the former and existing pile locations and if necessary moved the solid waste aside to access soil beneath. Soil borings (SB23 – SB28) were advanced using a hand auger to a depth of 2 feet below grade (fbg). Soil samples were subsequently collected from each of the borings. Soil boring locations are illustrated on the attached Figure 2. Each two-foot soil sampling interval was divided into two aliquots; one used for field screening purposes and one used to supply materials for potential submittal to the laboratory for chemical analysis. The laboratory aliquot for each soil sample was immediately placed into laboratory provided containers, sealed and placed in a cooler with ice. The other portion of each sample was placed into plastic Ziploc® bags and used to field screen for the presence of VOCs using a photoionization detector (PID) equipped with an 11.7 electronvolt (eV) lamp. All non-disposable soil sampling equipment was washed with a detergent solution and double-rinsed with tap water before and after each soil sample was collected to prevent sample cross-contamination. The PID data for samples collected from each borehole are presented on Table 1. All soil borings were immediately abandoned upon completion of sampling.

Five soil samples exhibiting the highest PID were submitted for laboratory analysis for volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), resource conservation and recovery act (RCRA) metals, and polychlorinated biphenyls (PCBs). Laboratory analysis of the additional soil samples collected at the Site detected lead above the Wisconsin Department of Natural Resources (WDNR) residual contaminant level (RCL) for the protection of groundwater in sample S2601. No other compounds were detected in any of the samples above regulatory limits. The results of groundwater samples previously collected from all the monitoring wells at the Site, including MW2 located closest to SB26, contained no laboratory detectable concentrations of lead in the groundwater. These results indicate that lead impacted soil is not having

a significant adverse effect on groundwater quality. Please note that all of the monitoring wells have been abandoned previously. Soil analytical results can be found on the attached Tables 3a, 3b, and 3c. Groundwater sample results summarizing the lead concentrations are included in the attached Table 4a. Based on the results of the additional soil sampling at the Site, we believe that the Site is ready for closure and will begin preparing a closure request upon the client's consent.

Please contact myself or Lynelle at [920-655-7211](tel:920-655-7211) if you would have any questions. Thanks.

Jeffrey R Brand

Engineer in Training

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Table 4a - Groundwater Sample Laboratory Results for RCRA Metals
Former Leo Tucker Property, Crivitz, Wisconsin

| Well Number | Date Collected | RCRA Metals | | | | | | |
|---------------------------------------|----------------|-------------|--------|---------|----------|------|---------|----------|
| | | Arsenic | Barium | Cadmium | Chromium | Lead | Mercury | Selenium |
| NR 140 PAL ($\mu\text{g/l}$) | 1 | 400 | 0.5 | 10 | 1.5 | 0.2 | 10 | 10 |
| NR 140 ES ($\mu\text{g/l}$) | 10 | 2000 | 5 | 100 | 15 | 2 | 50 | 50 |
| Concentrations (micrograms per liter) | | | | | | | | |
| MW-1 | 11/08/12 | <4.7 | 14.7 | 0.39 J | <2.4 | <1.4 | <0.10 | <5.8 |
| MW-2 | 11/08/12 | <4.7 | 15.3 | <0.39 | <2.4 | <1.4 | <0.10 | <5.8 |
| MW-3 | 11/08/12 | <4.7 | 4.9 J | <0.39 | <2.4 | <1.4 | <0.10 | <5.8 |
| MW-4 | 11/08/12 | <4.7 | 10.2 | <0.39 | <2.4 | <1.4 | <0.10 | <5.8 |
| FD3 (MW-4) | 11/08/12 | <4.7 | 9.9 | <0.39 | <2.4 | <1.4 | <0.10 | <5.8 |
| EB1 | 11/08/12 | <4.7 | <1.2 | <0.39 | <2.4 | <1.4 | <0.10 | <5.8 |
| | | | | | | | | <2.3 |

Note: All groundwater samples analyzed for metals were field filtered prior to preservation and analysis.

X = Concentration detected above NR 140 PAL

X = Concentration detected above NR 140 ES

<x = Analyte not detected above method detection limit

"J" = Analyte detected between Limit of Detection and Limit of Quantitation

EB = Equipment Blank

FD = Field Duplicate

NE = Not Established

NR 140 ES = Chapter NR 140 Wisc. Adm. Code Enforcement Standard

NR 140 PAL = Chapter NR 140 Wisc. Adm. Code Preventive Action Limit

RCRA = Resource Conservation and Recovery Act

$\mu\text{g/l}$ = Micrograms per liter

Table 1 - Soil Sample Field Screening Results, Former Leo Tucker Property, Crivitz, Wisconsin

| Boring Number | Sample Number | Sample Depth (feet) | Sample Odor | Sample Description | Date Collected | PID Headspace Analysis | | |
|---------------|---------------|---------------------|-------------|--------------------|----------------|------------------------|---------------|--------------------|
| | | | | | | Time Collected | Time Analyzed | PID Response (IUI) |
| 3_SB1 | 3_SB1(0-2)* | 0-2 | None | Topsoil/Sand | 9/19/2012 | 927 | 945 | 1.2 |
| | 3_SB1(2-4)* | 2-4 | None | Sand | 9/19/2012 | 927 | 945 | 1.6 |
| | 3_SB1(4-6) | 4-6 | None | Sand | 9/19/2012 | 929 | 946 | 1.1 |
| | 3_SB1(6-8) | 6-8 | None | Sand | 9/19/2012 | 929 | 946 | 1.8 |
| | 3_SB1(8-10) | 8-10 | None | Sand | 9/19/2012 | 932 | 950 | 1.4 |
| | 3_SB1(10-12) | 10-12 | None | Sand | 9/19/2012 | 932 | 950 | 1.3 |
| 3_SB2 | 3_SB2(0-2)* | 0-2 | None | Topsoil/Sand | 9/19/2012 | 947 | 1000 | 11.2 |
| | 3_SB2(2-4) | 2-4 | None | Sand | 9/19/2012 | 947 | 1000 | 2.8 |
| | 3_SB2(4-6) | 4-6 | None | Sand | 9/19/2012 | 949 | 1003 | 1.5 |
| | 3_SB2(6-8) | 6-8 | None | Sand | 9/19/2012 | 949 | 1003 | 1.6 |
| | 3_SB2(8-10) | 8-10 | None | Sand | 9/19/2012 | 950 | 1008 | 8.6 |
| | 3_SB2(10-12) | 10-12 | None | Sand | 9/19/2012 | 950 | 1008 | 1.6 |
| | 3_SB2(12-14) | 12-14 | None | Sand | 9/19/2012 | 954 | 1013 | 2 |
| | 3_SB2(14-16) | 14-16 | None | Sand | 9/19/2012 | 954 | 1013 | 1.3 |
| 3_SB3 | 3_SB3(0-2)* | 0-2 | None | Sand | 9/19/2012 | 1010 | 1030 | 3.1 |
| | 3_SB3(2-4) | 2-4 | None | Sand | 9/19/2012 | 1010 | 1030 | 2.6 |
| | 3_SB3(4-6) | 4-6 | None | Sand | 9/19/2012 | 1013 | 1031 | 3.1 |
| | 3_SB3(6-8) | 6-8 | None | Sand | 9/19/2012 | 1013 | 1031 | 2.6 |
| 3_SB4 | 3_SB4(0-2)* | 0-2 | None | Sand | 9/19/2012 | 1036 | 1053 | 3.2 |
| | 3_SB4(2-4) | 2-4 | None | Sand | 9/19/2012 | 1036 | 1053 | 2.7 |
| 3_SB5 | 3_SB5(0-2)* | 0-2 | None | Silty Sand | 9/19/2012 | 1102 | 1118 | 1.5 |
| | 3_SB5(2-4)* | 2-4 | None | Sand | 9/19/2012 | 1102 | 1118 | 1.7 |
| | 3_SB5(4-6) | 4-6 | None | Sand | 9/19/2012 | 1104 | 1120 | 1.5 |
| | 3_SB5(6-8) | 6-8 | None | Sand | 9/19/2012 | 1104 | 1120 | 1.3 |
| | 3_SB5(8-10) | 8-10 | None | Sand | 9/19/2012 | 1106 | 1122 | 2 |
| | 3_SB5(10-12) | 10-12 | None | Sand | 9/19/2012 | 1106 | 1122 | 1 |
| 3_SB6 | 3_SB6(0-2)* | 0-2 | None | Silty Sand | 9/19/2012 | 1045 | 1100 | 2.8 |
| | 3_SB6(2-4) | 2-4 | None | Sand | 9/19/2012 | 1045 | 1100 | 2.6 |
| 3_SB7 | 3_SB7(0-2)* | 0-2 | None | Topsoil/Sand | 9/19/2012 | 1122 | 1138 | 1.6 |
| | 3_SB7(2-4) | 2-4 | None | Sand | 9/19/2012 | 1122 | 1138 | 1.2 |
| | 3_SB7(4-6) | 4-6 | None | Sand | 9/19/2012 | 1125 | 1140 | 0.7 |
| | 3_SB7(6-8) | 6-8 | None | Sand | 9/19/2012 | 1125 | 1140 | 0.4 |
| | 3_SB7(8-10) | 8-10 | None | Sand | 9/19/2012 | 1127 | 1143 | 4.7 |
| | 3_SB7(10-12) | 10-12 | None | Sand | 9/19/2012 | 1127 | 1143 | 0.6 |
| 3_SB8 | 3_SB8(0-2)* | 0-2 | None | Topsoil/Sand | 9/19/2012 | 1146 | 1203 | 1.4 |
| | 3_SB8(2-4) | 2-4 | None | Sand | 9/19/2012 | 1146 | 1203 | 0.9 |
| 3_SB9 | 3_SB9(0-2)* | 0-2 | None | Silty Sand | 9/19/2012 | 1227 | 1245 | 1.6 |
| | 3_SB9(2-4) | 2-4 | None | Sand | 9/19/2012 | 1227 | 1245 | 1.8 |
| | 3_SB9(4-6)* | 4-6 | None | Sand | 9/19/2012 | 1229 | 1246 | 2.3 |
| | 3_SB9(6-8) | 6-8 | None | Sand | 9/19/2012 | 1229 | 1246 | 0.7 |
| | 3_SB9(8-10) | 8-10 | None | Sand | 9/19/2012 | 1231 | 1248 | 1.6 |
| | 3_SB9(10-12) | 10-12 | None | Sand | 9/19/2012 | 1231 | 1248 | 0.6 |
| 3_SB10 | 3_SB10(0-2)* | 0-2 | None | Sand | 9/19/2012 | 1244 | 1303 | 1.3 |
| | 3_SB10(2-4) | 2-4 | None | Sand | 9/19/2012 | 1244 | 1303 | 0.8 |
| | 3_SB10(4-6) | 4-6 | None | Sand | 9/19/2012 | 1245 | 1305 | 1.1 |
| | 3_SB10(6-8) | 6-8 | None | Sand | 9/19/2012 | 1245 | 1305 | 1 |
| | 3_SB10(8-10) | 8-10 | None | Sand | 9/19/2012 | 1247 | 1308 | 1 |
| | 3_SB10(10-12) | 10-12 | None | Sand | 9/19/2012 | 1247 | 1308 | 0.8 |
| | 3_SB10(12-14) | 12-14 | None | Sand | 9/19/2012 | 1250 | 1310 | 1.3 |
| | 3_SB10(14-16) | 14-16 | None | Sand | 9/19/2012 | 1250 | 1310 | 0.4 |

Table 2 - Soil Sample Field Screening Results, Former Leo Tucker Property, Crivitz, Wisconsin

| Boring Number | Sample Number | Sample Depth (feet) | Sample Odor | Sample Description | Date Collected | PID Headspace Analysis | | |
|---------------|---------------|---------------------|-------------|--------------------|----------------|------------------------|---------------|--------------------|
| | | | | | | Time Collected | Time Analyzed | PID Response (IUI) |
| 3_SB11 | 3_SB11(0-2)* | 0-2 | None | Silty Sand | 9/19/2012 | 1210 | 1227 | 0.6 |
| | 3_SB11(2-4)* | 2-4 | None | Sand | 9/19/2012 | 1210 | 1227 | 0.8 |
| 3_SB12 | 3_SB12(0-2)* | 0-2 | None | Sand | 9/19/2012 | 1333 | 1350 | 2.5 |
| | 3_SB12(2-4)* | 2-4 | None | Sand | 9/19/2012 | 1333 | 1350 | 2.7 |
| | 3_SB12(4-6) | 4-6 | None | Sand | 9/19/2012 | 1335 | 1353 | 1.9 |
| | 3_SB12(6-8) | 6-8 | None | Sand | 9/19/2012 | 1335 | 1353 | 1.6 |
| | 3_SB12(8-10) | 8-10 | None | Sand | 9/19/2012 | 1340 | 1355 | 2.1 |
| | 3_SB12(10-12) | 10-12 | None | Sand | 9/19/2012 | 1340 | 1355 | 1 |
| 3_SB13 | 3_SB13(0-2)* | 0-2 | None | Topsoil/Sand | 9/19/2012 | 1312 | 1330 | 1.7 |
| | 3_SB13(2-4) | 2-4 | None | Sand | 9/19/2012 | 1312 | 1330 | 1.2 |
| 3_SB14 | 3_SB14(0-2)* | 0-2 | None | Topsoil/Sand | 9/19/2012 | 1358 | 1414 | 1.8 |
| | 3_SB14(2-4) | 2-4 | None | Sand | 9/19/2012 | 1358 | 1414 | 1.7 |
| 3_SB15 | 3_SB15(0-2)* | 0-2 | None | Topsoil/Sand | 9/19/2012 | 1443 | 1500 | 2.6 |
| | 3_SB15(2-4) | 2-4 | None | Sand | 9/19/2012 | 1443 | 1500 | 2.1 |
| 3_SB16 | 3_SB16(0-2)* | 0-2 | None | Topsoil/Sand | 9/19/2012 | 1405 | 1420 | 3.3 |
| | 3_SB16(2-4) | 2-4 | None | Sand | 9/19/2012 | 1405 | 1420 | 2.4 |
| | 3_SB16(4-6) | 4-6 | None | Sand | 9/19/2012 | 1410 | 1425 | 3.2 |
| | 3_SB16(6-8) | 6-8 | None | Sand | 9/19/2012 | 1410 | 1425 | 1.3 |
| | 3_SB16(8-10) | 8-10 | None | Sand | 9/19/2012 | 1412 | 1428 | 3.3 |
| | 3_SB16(10-12) | 10-12 | --- | No Recovery | 9/19/2012 | --- | --- | --- |
| | 3_SB16(12-14) | 12-14 | None | Sand | 9/19/2012 | 1415 | 1430 | 1.5 |
| | 3_SB16(14-16) | 14-16 | None | Sand | 9/19/2012 | 1415 | 1430 | 1.4 |
| | 3_SB17(0-2)* | 0-2 | None | Sand | 9/19/2012 | 1452 | 1512 | 2 |
| 3_SB17 | 3_SB17(2-4)* | 2-4 | None | Sand | 9/19/2012 | 1452 | 1512 | 2.2 |
| | 3_SB18(0-2)* | 0-2 | None | Sand | 9/19/2012 | 1511 | 1522 | 1.5 |
| 3_SB18 | 3_SB18(2-4)* | 2-4 | None | Sand | 9/19/2012 | 1511 | 1522 | 1.8 |
| | 3_SB19(0-2)* | 0-2 | None | Sand | 9/19/2012 | 1530 | 1546 | 13 |
| 3_SB19 | 3_SB19(2-4) | 2-4 | None | Sand | 9/19/2012 | 1530 | 1546 | 1.5 |
| | 3_SB20(0-2)* | 0-2 | None | Sand | 9/19/2012 | 1539 | 1556 | 3.6 |
| 3_SB20 | 3_SB20(2-4) | 2-4 | None | Sand | 9/19/2012 | 1539 | 1556 | 2 |
| | 3_SB20(4-6) | 4-6 | None | Sand | 9/19/2012 | 1540 | 1557 | 1.5 |
| | 3_SB20(6-8) | 6-8 | None | Sand | 9/19/2012 | 1540 | 1557 | 2.1 |
| | 3_SB20(8-10) | 8-10 | None | Sand | 9/19/2012 | 1542 | 1559 | 1 |
| | 3_SB20(10-12) | 10-12 | None | Sand | 9/19/2012 | 1542 | 1559 | 1.1 |
| | 3_SB20(12-14) | 12-14 | None | Sand | 9/19/2012 | 1545 | 1601 | 1.7 |
| | 3_SB20(14-16) | 14-16 | None | Sand | 9/19/2012 | 1545 | 1601 | 1.2 |
| | 3_SB21(0-2)* | 0-2 | None | Sand | 9/19/2012 | 1605 | 1621 | 2.2 |
| 3_SB21 | 3_SB21(2-4) | 2-4 | None | Sand | 9/19/2012 | 1605 | 1621 | 2.1 |
| | 3_SB22(0-2)* | 0-2 | None | Sand | 9/19/2012 | 1555 | 1611 | 8.8 |
| 3_SB22 | 3_SB22(2-4) | 2-4 | None | Sand | 9/19/2012 | 1555 | 1611 | 1.6 |
| B23 | S2301 | 0-2 | None | Sand | 10/25/2017 | 1021 | 1036 | 0.7 |
| B24 | S2401 | 0-2 | None | Sand | 10/25/2017 | 1035 | 1050 | 0.7 |
| B25 | S2501 | 0-2 | None | Sand | 10/25/2017 | 1100 | 1115 | 0.3 |
| B26 | S2601 | 0-2 | None | Sand | 10/25/2017 | 1130 | 1145 | 1.6 |
| B27 | S2701 | 0-2 | None | Sand | 10/25/2017 | 1200 | 1215 | 2.1 |
| B28 | S2801 | 0-2 | None | Sand | 10/25/2017 | 1225 | 1240 | 2.9 |

Note:

PID = Photoionization Detector

iui = Instruments units as isobutylene

* = Submitted for laboratory analysis

--- = Not Analyzed or Unknown



SCALE IN FEET



LEGEND

- APPROXIMATE PROPERTY LINE
- MW1 MONITORING WELL LOCATION
- PRIVATE WELL LOCATION



954 Circle Drive, Green Bay, Wisconsin 54304
Phone: 800-854-0606 Fax: 920-592-8444

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DATE: 09/24/12

DRAWN BY: JRB

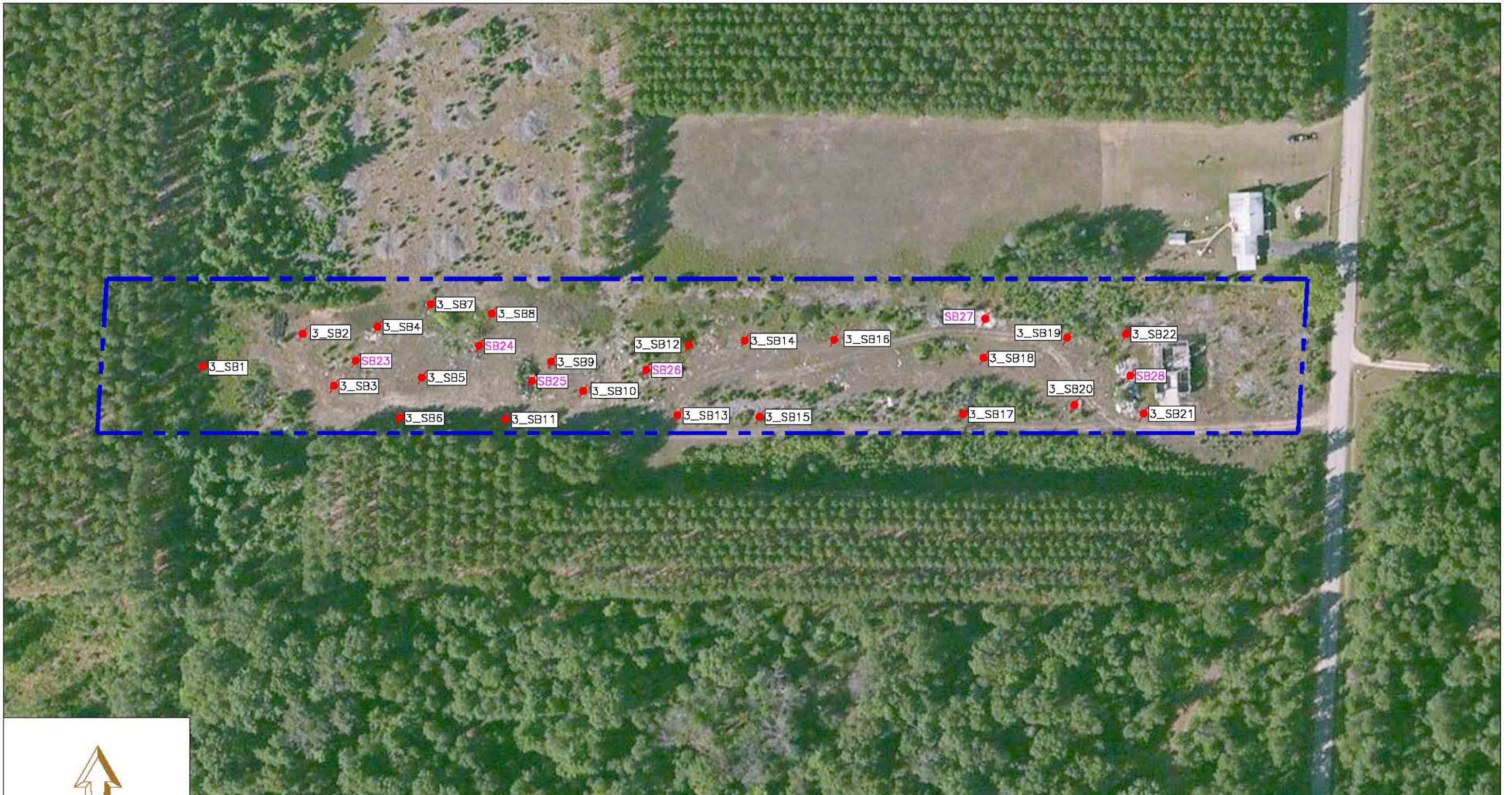
PROJECT MANAGER: LPC

SITE LAYOUT WITH MONITORING WELL LOCATIONS

FORMER LEO TUCKER PROPERTY
N6817 LEFT FOOT ROAD
CRIVITZ, WISCONSIN

PROJECT NUMBER: 193700605

FIGURE 3

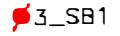


SCALE IN FEET
50 0 50 100



LEGEND

— APPROXIMATE PROPERTY LINE



3_SB1 SOIL BORING LOCATION



SB23 HAND AUGER SOIL BORING LOCATION ON 10/25/17



1165 Scheuring Road, De Pere, Wisconsin 54115
Phone: 920-592-8400 Fax: 920-592-8444

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DATE: 11/10/17

DRAWN BY: JRB

PROJECT MANAGER: LPC

PROJECT NUMBER: 193704745

SITE LAYOUT WITH SOIL
BORING LOCATIONS

FORMER LEO TUCKER PROPERTY
N6817 LEFT FOOT ROAD
CRIVITZ, WISCONSIN