DE002

Rite in the Rain.
ALL-WEATHER
FIELD
№ 351

St. Lawrence Cemetery
Dump
TDD:0001/505-0001-1404-002

INCH

Rite in the Rain
ALL-WEATHER WRITING PAPER

Name _____

Address _____

Phone _____

START FIELD LOGBOOK

Logbook Tracking Number DE002

Site Name St. Lawrence Cemetery Dump

Issue to Lori Kozel

Date Issued 4-10-14

TDD # 0001/S05-0001-1404-002

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6/11/14

0845 - START Kozel and Browning leave the office for the St. Lawrence cemetery. Note: Prior to leaving the office, START Browning ~~calibrating~~ calibrated the MultiRAE Pro (PGM6248): Fresh air readings: O_2 = 20.9 and all other reading/parameters are 0 or 0.0. Multigas readings: CO = 50, H_2S = 25.1, and LEL = 50, VOC = 100.7.

0925 - Arrive at St. Lawrence Cemetary.

0938 - H and S meeting takes place. Topics: ① slip, trips, and falls. ② weather issues with lightning, and ③ ticks. ——— MTB

0945

0950 - MicroR background reading = 4 Mr/hr. — MTB

1005 - During a preliminary walk of the site, the peak reading, for VOCs, on the MultiRAE Pro was 130 ppb. The peak reading on the MicroR reading is 7 Mr/hr. ——— MTB

1010 - Following an initial site walk and screening of the site with the MultiRAE Pro and the MicroR meter, START, Kozel and Browning prepare to collect the soil and leachate samples at the site. Each of the soil and leachate sample locations are going to be recorded in FAST by a U.S. EPA

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FIELDS team member (Chuck Roth). Each soil sample, to be sent to RTI Laboratory, will be analyzed for TCL VOCs, TCLP VOCs, TCL SVOCs, TCLP SVOCs, Pesticides, TCLP Pesticides, PCBs, TAL Metals (including Mercury), TCLP Metals, and % Moisture. Each leachate sample will be will be analyzed for TCL VOCs, TCLP VOCs, TCL SVOCs, TCLP SVOCs, Pesticides, TCLP Pesticides, PCBs, Metals (including Mercury), Hardness, TCLP Metals, Oil and Grease, CN (Total), Anions, BOD, TSS, TDS, COD, TOC, NH_3, Total Phos. ——— MTB

1014 - SLC-Soil-01-061114 collected. ——— MTB

1024 - SLC-Soil-02-061114 collected. ——— MTB

1032 - SLC-Soil-03-061114 collected. ——— MTB

1054 - SLC-Soil-04-061114 collected. ——— MTB

1101 - SLC-Soil-05-061114 collected. ——— MTB

1108 - SLC-Soil-06-061114 collected. ——— MTB

1115 - SLC-Soil-07-061114 collected. ——— MTB

1120 - SLC-Soil-08-061114 collected. ——— MTB

1125 - SLC-Soil-09-061114 collected. ——— MTB

1130 - SLC-Soil-10-061114 collected. ——— MTB

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1146 - SLC-Soil-11-061114 collected ——— MTB
1153 - SLC-Soil-12-061114 collected ——— MTB
1201 - SLC-Soil-13-061114 collected ——— MTB
1210 - SLC-Soil-14-061114 collected ——— MTB
1217 - SLC-Soil-15-061114 collected ——— MTB
1224 - SLC-Soil-16-061114 collected ——— MTB
1228 - SLC-Soil-17-061114 collected ——— MTB
1235 - SLC-Soil-18-061114 collected ——— MTB
1241 - SLC-Soil-19-061114 collected ——— MTB
1249 - SLC-Soil-20-061114 collected ——— MTB
1340 - SLC-Soil-21-061114 collected ——— MTB
1414 - SLC-Leachate-01-061114 collected. —— MTB
1519 - SLC-Soil-22-061114 collected ——— MTB
1532 - SLC-Soil-23-061114 collected ——— MTB
1535 - SLC-Soil-24-061114 collected ——— MTB
1540 - SLC-Soil-25-061114 collected ——— MTB
1612 - SLC-Leachate-02-061114 collected. MTB
1618 - SLC-Soil-26-061114 collected ——— MTB

Note: A duplicate sample of Sample SLC-Soil-23-061114 will be created and will be sent to the lab as Sample Dup-01. Also, an MS/MSD analysis will be conducted for Sample SLC-Soil-26-061114. —— MTB.

Based on the XRF screening results of the

6/11/14

soil samples, as well as on the observations of the OSC, the following soil samples will be sent to the ~~lab~~ MTB lab for analysis: SLC-Soil-06, SLC-Soil-10, SLC-Soil-13, SLC-Soil-14, SLC-Soil-18, SLC-Soil-21, SLC-Soil-22, SLC-Soil-23, SLC-Soil-24, SLC-Soil-25, and SLC-Soil-26. Both leachate samples will be sent to the lab for analysis. - MTB

STARTS Kozel and Browning leave the site for the day. ——— MTB

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1130- START Browning leaves the Madison Heights office in order to evaluate the possible boat ramp locations that could be used for the boat operations related to the St. Lawrence cemetary dump site. —— MTB

1200- After evaluating both boat ramps,
1230 START Browning determines that the boat ramp located in downtown Utica, MI —— MTB

1330- START Browning and OSC Nightingale meet Mr. Jim Ursic, of EPA FIELDS, at the St. Lawrence Cemetary dump site. —— MTB

1330- START Browning, OSC Nightingale,
1415 and Mr. Ursic assess the areas that will be surveyed on 12/9 and 12/10/14.

1425- START Browning, OSC Nightingale,
1600 and Mr. Ursic drive to the boat launch in Utica, MI in order to conduct the boat operations related to the surveying of the St. Lawrence site. However, the boat operations are stopped after it is determined that the boat motor is not ~~powerfull~~ [illegible] launch to reach the site. —MTB

12/9/14

0800- START Browning and Mr. Ursic arrive at the St. Lawrence site in order to begin the geophysical surveying of the former landfill surface and first slope at the river-side end of the landfill. START Browning used a Geophex GEM-2 frequency domain electro magnetic tool, while Mr. Ursic used a Geometrics Cesium Proton Gradiometer. —— MTB

0830- START Browning surveys the bottom
1500 of the first slope along with Mr. Ursic ~~while~~. After ~~surv~~ surveying the bottom of the first slope, START Browning begins and completes the surveying of the floodplain of the Clinton River along with Mr. Ursic. After surveying the flood plain, START Browning and Mr. Ursic surveyed the grassy and brushy level areas at the surface of the landfill. —— MTB

1500- Mr. Browning and Mr. Ursic leave the site for the day. —— MTB

—— MTB

12/10/14

0800 - START Browning and Mr. Ursic arrive at the site to complete the geophysical surveying of the site. ——— MTB

0815 - START Browning redoes the surveying,
1030 in part, of what he had done on 12/9 on the grassy area of the landfill surface due to the batteries on his unit having given out toward the end of the day on 12/9/14. During this time, Mr. Ursic also continues to survey the grassy ~~area~~ MTB area, as well. ——— MTB

1030 - START Browning takes photos of the
1115 metal objects that are protruding from the ground on the slope at the bottom of the landfill. ——— MTB

1130 - START Browning and Jim Ursic survey
1200 a small area (flat) that lies just along the surface of the landfill. MTB

1400 - After completing the survey of the areas at the site, and Mr. Ursic taking additional photos of the ~~ob~~ objects protuding from the ground, START Browning and Mr. Ursic leave the site for the day. ——— MTB

4/9/15

0900- START Browning leaves the office for the St. Lawrence site. ——— MTB

0920- START Browning arrives on site. Weather: Overcast and cloudy, 30s. MTB

0940- Other personnel arrives on site. Agencies represented include U.S. EPA, MDER, and county agencies. Total number of people on site is 17. The U.S. Army Corp of Engineers is also represented on site. ——— MTB

0945- OSC Nightingale has the representatives introduce themselves to the group and then provides background on the work that U.S EPA has undertaken since June 2014 as well as the potential actions that will take place in 2015. After the briefing, the group is given a tour of the St. Lawrence ~~pon~~ MTB dump site. ——— MTB

1030- The group of site visitors leaves the site, and OSCs Nightingale and Edwards and START Browning begin GPS-locating the drums and tanks located along the slope and

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level area of the land fill. — MTB

1230- After GPS-locating the positions of 10 drums and 3 tanks, START and EPA personnel leave the site for the day. Note: Photos of the drums and tanks were taken after the GPS location of each drum and tank was taken. MTB

04/29/15 - Clear ~50 sunny

0800 START Kozel, OSC Churchill, OSC Edwards, MSG - Adam & Mark. Conduct H2S meeting, rep from equipment company onsite, machine stuck in traffic. Calibrate multi-rae VOC=10 ppm, LEL=50 H2S=10 Oxy=18 CO=50 - all pass.

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04/29/15 continued..

1000: Begin conducting test pits at 9 different locations.

1040	location 01	0-1.5'
1025	02	0-2'
1115	03	0-2'
1135	04	0-1.5'
1150	05	2-4'
1335	06	0-2'
1415	07	0-2'
1450	08	0-2' & dup
1525	09	0-2'

- VOC, SVOC, metals, PCB & TCLP

1610 - off site