



Thickness Map				
Range	Minimum Depth	Maximum Depth	2D Area (Sq. Ft.)	Color
1	-5.00	-4.00	0.00	Dark Blue
2	-4.00	-3.00	0.00	Blue
3	-3.00	-2.00	0.00	Light Blue
4	-2.00	-1.00	0.00	Very Light Blue
5	-1.00	0.00	641,186.20	Cyan
6	0.00	1.00	1,011.36	Grey

LEGEND

- 12-10-2019 TOPOGRAPHY (2' CONTOUR)
 - 12-10-2019 TOPOGRAPHY (10' CONTOUR)
 - MINOR ELEVATION CHANGE CONTOUR (0.25 FEET)
 - MAJOR ELEVATION CHANGE CONTOUR (0.50 FEET)
 - SPOT ELEVATION DIFFERENCE (1-15-2020 to 4-20-2020)
 - *SETTLEMENT FRONT CONTOUR FOR AREA WITH 4.32' PER 96 DAYS FOR CURRENT PERIOD OF DAYS
- *NONE FOR 1-15-2020 THROUGH 4-20-2020

NOTES:

1. EXISTING CONTOURS DEVELOPED FROM SITE AERIAL TOPOGRAPHIC SURVEY BY COOPER AERIAL SURVEYS CO. ON DECEMBER 10, 2019.
2. FOR CLARITY, NOT ALL SITE FEATURES MAY BE SHOWN.
3. ELEVATION DIFFERENCE DETERMINED BY SUBTRACTING SPOT ELEVATIONS SURVEYED ON 1-15-20 FROM SPOT ELEVATIONS SURVEYED ON 4-20-20.
4. SURVEY POINTS WERE PERFORMED USING GPS METHODS.
5. SETTLEMENT RANGE SURFACE WAS GENERATED FROM THE SPOT ELEVATION DIFFERENCES.
6. ELEVATION DIFFERENCES THAT ARE SHOWN AS NEGATIVE INDICATE SPOTS OF SETTLEMENT.
7. ANY POINTS THAT ARE NOT A GROUND-TO-GROUND COMPARISON TO THE PREVIOUS MONTH'S POINTS, OR THAT WERE NOT SURVEYED IN THE SAME LOCATION AS THE PREVIOUS MONTH ARE NOT INCLUDED AND WERE NOT USED IN ANY SURFACE GENERATION.
8. THERE ARE THREE SETTLEMENT MEASUREMENTS FOR THIS QUARTER WHICH ARE 0.5 FEET OR GREATER(-0.50 FOOT, -0.54 FOOT, AND -0.71 FOOT). IN THE PREVIOUS QUARTER'S ANALYSIS (JANUARY 5, 2020), ALL THREE OF THESE POINTS INDICATED AN ARTIFICIAL "FILL" (RISE IN ELEVATION WITHOUT ANY PLACED MATERIAL) LIKELY DUE TO MEMBRANE TIGHTNESS CAUSED BY COLD AMBIENT TEMPERATURE IN JANUARY AS COMPARED TO THE WARMER TEMPERATURE DURING THE PREVIOUS SURVEY. THE LOCATION OF THE CURRENT -0.50 FOOT READING SHOWED A +0.33 FOOT FILL IN JANUARY, THE -0.54 FOOT READING SHOWED A +0.23 FOOT FILL, AND THE -0.71 FOOT READING SHOWED A +0.38 FOOT FILL. THEREFORE, IT IS BELIEVED THAT THESE THREE POINTS WERE SURVEY ANOMALIES DUE TO PREVIOUS LINER TIGHTNESS AND DO NOT REPRESENT ACTUAL SETTLEMENTS IN THE AMOUNTS PRESENTED.

BRIDGETON LANDFILL, LLC 13570 SAINT CHARLES ROCK RD BRIDGETON, MO 63044	BRIDGETON LANDFILL SETTLEMENT MONITORING		APRIL 2020 DESIGNED BY: IN APPROVED BY: DRF	DRAWING NO.: 003
SETTLEMENT MAP - N. QUARRY 1/15/2020 - 4/20/2020				
PROJECT NUMBER: BT-145 FILE PATH: C:\Users\jplm\OneDrive (Fezor Engineering)\Bridgeton\100-149\BT-145 (Agreed Order Reporting)\Quarterly Settlement\2020-04\Quarterly NQ Settlement 4-20-2020.dwg		REVISION DATE		