

Attachment D

Landfill Capacity Documentation

**KING COUNTY SOLID WASTE DIVISION
CEDAR HILLS REGIONAL LANDFILL CAPACITY**

Disposal Areas		Area 7 ¹	Area 8 ²	Areas 5 & 6	Total System Capacity
Area Capacity (CY)		--	5,526,640	3,030,000	8,556,640
Area Capacity (tons) @ 1600 lbs/CY		--	4,421,312	2,424,000	6,845,312
Date	Monthly Tonnage ³	Area 7 Remaining Capacity (tons)	Area 8 Remaining Capacity (tons)	Areas 5 & 6 Remaining Capacity (tons)	Total Remaining Capacity (tons)
October, 2021	28,322	--	4,392,990	2,424,000	6,816,990
November, 2021	75,176	--	4,317,814	2,424,000	6,741,814
December, 2021	59,922	--	4,257,892	2,424,000	6,681,892
January, 2022	74,125	--	4,183,767	2,424,000	6,607,767
February, 2022	74,125	--	4,109,642	2,424,000	6,533,642
March, 2022	74,125	--	4,035,517	2,424,000	6,459,517
April, 2022	74,125	--	3,961,392	2,424,000	6,385,392
May, 2022	74,125	--	3,887,267	2,424,000	6,311,267
June, 2022	74,125	--	3,813,142	2,424,000	6,237,142
July, 2022	74,125	--	3,739,017	2,424,000	6,163,017
August, 2022	74,125	--	3,664,892	2,424,000	6,088,892
September, 2022	74,125	--	3,590,767	2,424,000	6,014,767
October, 2022	74,125	--	3,516,642	2,424,000	5,940,642
November, 2022	74,125	--	3,442,517	2,424,000	5,866,517
December, 2022	74,125	--	3,368,392	2,424,000	5,792,392
January, 2023	75,158	--	3,293,234	2,424,000	5,717,234
February, 2023	75,158	--	3,218,076	2,424,000	5,642,076
March, 2023	75,158	--	3,142,918	2,424,000	5,566,918
April, 2023	75,158	--	3,067,759	2,424,000	5,491,759
May, 2023	75,158	--	2,992,601	2,424,000	5,416,601
June, 2023	75,158	--	2,917,443	2,424,000	5,341,443
July, 2023	75,158	--	2,842,285	2,424,000	5,266,285
August, 2023	75,158	--	2,767,126	2,424,000	5,191,126
September, 2023	75,158	--	2,691,968	2,424,000	5,115,968
October, 2023	75,158	--	2,616,810	2,424,000	5,040,810
November, 2023	75,158	--	2,541,652	2,424,000	4,965,652
December, 2023	75,158	--	2,466,493	2,424,000	4,890,493
January, 2024	75,428	--	2,391,065	2,424,000	4,815,065
February, 2024	75,428	--	2,315,637	2,424,000	4,739,637

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Area Capacity (tons) @ 1600 lbs/CY		--	4,421,312	2,424,000	6,845,312
Date	Monthly Tonnage ³	Area 7 Remaining Capacity (tons)	Area 8 Remaining Capacity (tons)	Areas 5 & 6 Remaining Capacity (tons)	Total Remaining Capacity (tons)
March, 2024	75,428	--	2,240,209	2,424,000	4,664,209
April, 2024	75,428	--	2,164,780	2,424,000	4,588,780
May, 2024	75,428	--	2,089,352	2,424,000	4,513,352
June, 2024	75,428	--	2,013,924	2,424,000	4,437,924
July, 2024	75,428	--	1,938,496	2,424,000	4,362,496
August, 2024	75,428	--	1,863,067	2,424,000	4,287,067
September, 2024	75,428	--	1,787,639	2,424,000	4,211,639
October, 2024	75,428	--	1,712,211	2,424,000	4,136,211
November, 2024	75,428	--	1,636,783	2,424,000	4,060,783
December, 2024	75,428	--	1,561,354	2,424,000	3,985,354
January, 2025	75,698	--	1,485,656	2,424,000	3,909,656
February, 2025	75,698	--	1,409,958	2,424,000	3,833,958
March, 2025	75,698	--	1,334,260	2,424,000	3,758,260
April, 2025	75,698	--	1,258,561	2,424,000	3,682,561
May, 2025	75,698	--	1,182,863	2,424,000	3,606,863
June, 2025	75,698	--	1,107,165	2,424,000	3,531,165
July, 2025	75,698	--	1,031,467	2,424,000	3,455,467
August, 2025	75,698	--	955,768	2,424,000	3,379,768
September, 2025	75,698	--	880,070	2,424,000	3,304,070
October, 2025	75,698	--	804,372	2,424,000	3,228,372
November, 2025	75,698	--	728,674	2,424,000	3,152,674
December, 2025	75,698	--	652,975	2,424,000	3,076,975
January, 2026	75,755	--	577,220	2,424,000	3,001,220
February, 2026	75,755	--	501,465	2,424,000	2,925,465
March, 2026	75,755	--	425,709	2,424,000	2,849,709
April, 2026	75,755	--	349,954	2,424,000	2,773,954
May, 2026	75,755	--	274,198	2,424,000	2,698,198
June, 2026	75,755	--	198,443	2,424,000	2,622,443
July, 2026	75,755	--	122,688	2,424,000	2,546,688

**KING COUNTY SOLID WASTE DIVISION
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Area Capacity (tons) @ 1600 lbs/CY		--	4,421,312	2,424,000	6,845,312
Date	Monthly Tonnage ³	Area 7 Remaining Capacity (tons)	Area 8 Remaining Capacity (tons)	Areas 5 & 6 Remaining Capacity (tons)	Total Remaining Capacity (tons)
August, 2026	75,755	--	46,932	2,424,000	2,470,932
September, 2026	75,755	--	--	2,395,177	2,395,177
October, 2026	75,755	--	--	2,319,421	2,319,421
November, 2026	75,755	--	--	2,243,666	2,243,666
December, 2026	75,755	--	--	2,167,910	2,167,910
January, 2027	75,813	--	--	2,092,098	2,092,098
February, 2027	75,813	--	--	2,016,285	2,016,285
March, 2027	75,813	--	--	1,940,473	1,940,473
April, 2027	75,813	--	--	1,864,660	1,864,660
May, 2027	75,813	--	--	1,788,848	1,788,848
June, 2027	75,813	--	--	1,713,035	1,713,035
July, 2027	75,813	--	--	1,637,222	1,637,222
August, 2027	75,813	--	--	1,561,410	1,561,410
September, 2027	75,813	--	--	1,485,597	1,485,597
October, 2027	75,813	--	--	1,409,785	1,409,785
November, 2027	75,813	--	--	1,333,972	1,333,972
December, 2027	75,813	--	--	1,258,159	1,258,159
January, 2028	76,290	--	--	1,181,870	1,181,870
February, 2028	76,290	--	--	1,105,580	1,105,580
March, 2028	76,290	--	--	1,029,290	1,029,290
April, 2028	76,290	--	--	953,000	953,000
May, 2028	76,290	--	--	876,710	876,710
June, 2028	76,290	--	--	800,420	800,420
July, 2028	76,290	--	--	724,130	724,130
August, 2028	76,290	--	--	647,840	647,840
September, 2028	76,290	--	--	571,550	571,550
October, 2028	76,290	--	--	495,260	495,260
November, 2028	76,290	--	--	418,970	418,970
December, 2028	76,290	--	--	342,680	342,680

**KING COUNTY SOLID WASTE DIVISION
CEDAR HILLS REGIONAL LANDFILL CAPACITY**

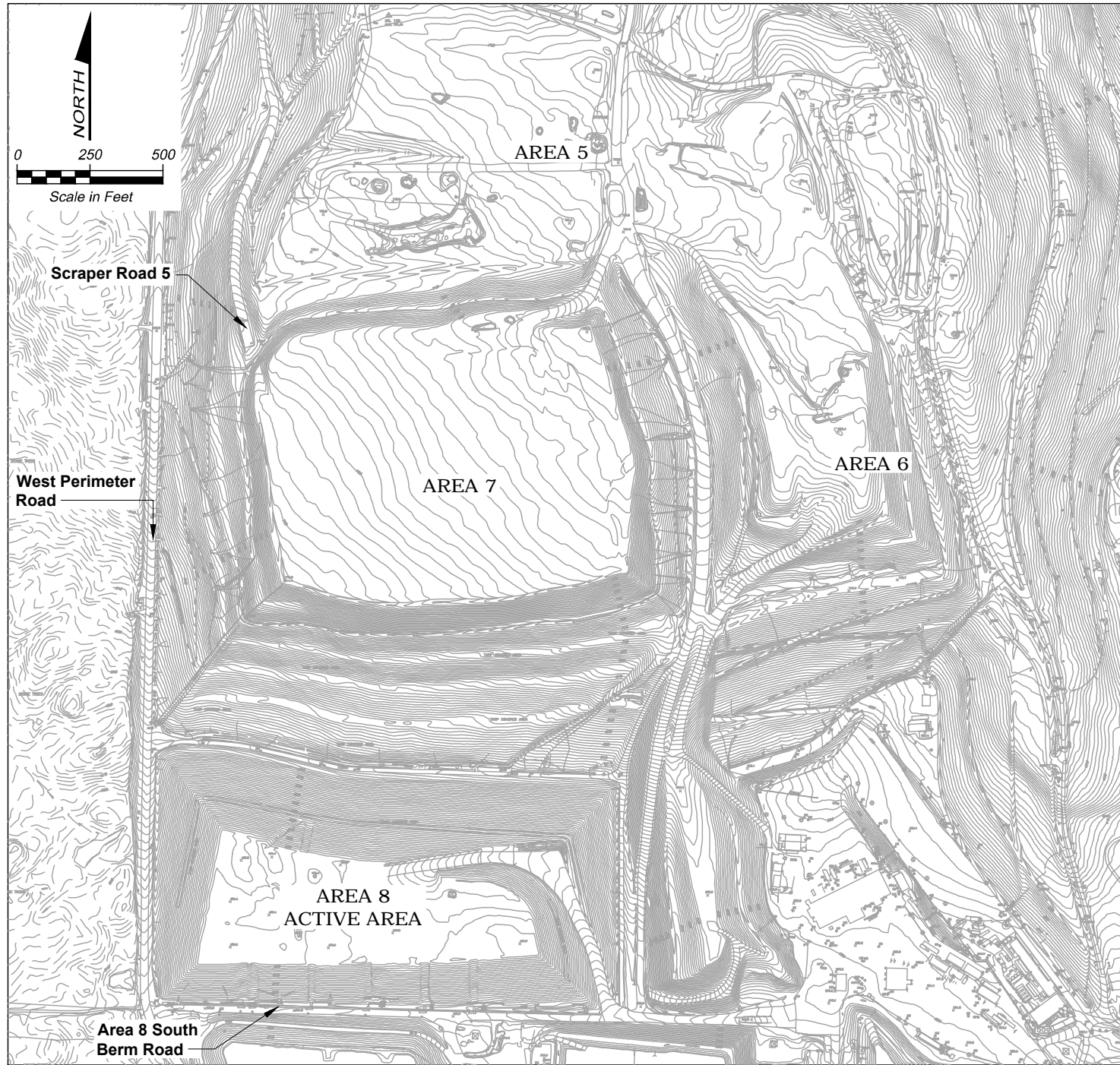
Disposal Areas		Area 7 ¹	Area 8 ²	Areas 5 & 6	Total System Capacity
Area Capacity (CY)		--	5,526,640	3,030,000	8,556,640
Area Capacity (tons) @ 1600 lbs/CY		--	4,421,312	2,424,000	6,845,312
Date	Monthly Tonnage ³	Area 7 Remaining Capacity (tons)	Area 8 Remaining Capacity (tons)	Areas 5 & 6 Remaining Capacity (tons)	Total Remaining Capacity (tons)
January, 2029	77,067	--	--	265,614	265,614
February, 2029	77,067	--	--	188,547	188,547
March, 2029	77,067	--	--	111,480	111,480
April, 2029	77,067	--	--	34,413	34,413
May, 2029	77,067	--	--	--	--

¹ Area 7 stopped receiving waste as of summer of 2019.

² Area 8 Capacity: 7,621,000 CY remaining as calculated from October 29th, 2019 aerial. 7,308,417 CY remaining as calculated from February 25th, 2020 aerial. 6,632,616 CY remaining as calculated from November 2nd, 2020 aerial. 6,166,367 CY remaining as calculated from March 31st, 2021 aerial. 5,526,640 CY remaining as calculated from October 19th, 2021 aerial.

³ Monthly tonnage either actual amounts (Cell B46 in Tonnage Report for each month), or based on April 2021 forecast into future months.

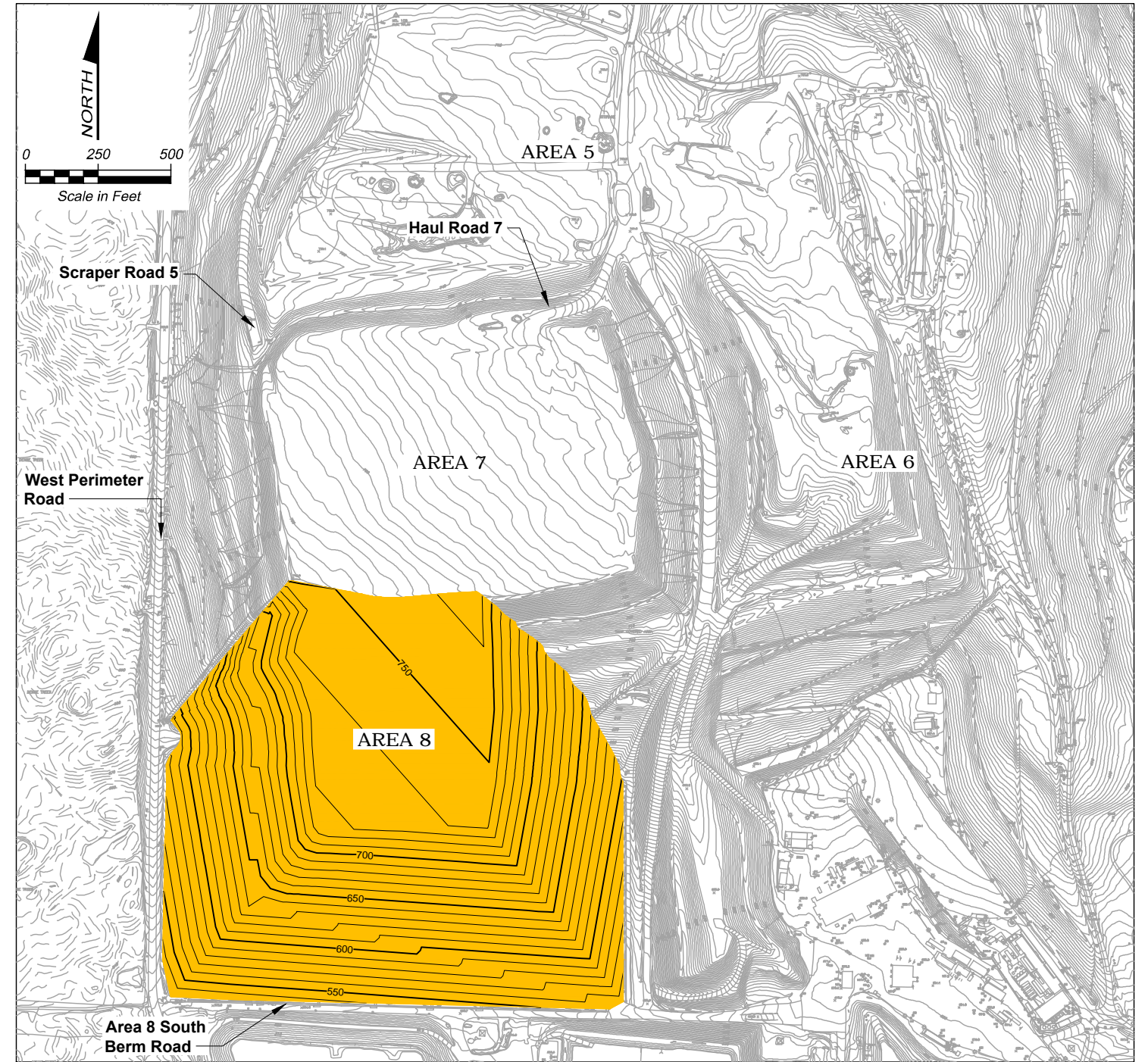
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 Xref Filename: | X19-10628_Ex_Topo | X19-10628_Prop_Road | X19-10628_Area 8 No Action Alt | X19-10628_Scraper Rd 5 | X19-10628_Haul Rd 6 |



EXISTING CONDITIONS

THE EXISTING CONDITIONS INCLUDES THE FOLLOWING ELEMENTS:

- AREA 8 ACTIVE FILLING; 219,000 CY
- FALL 2019 AERIAL, FLOWN OCTOBER 29, 2019

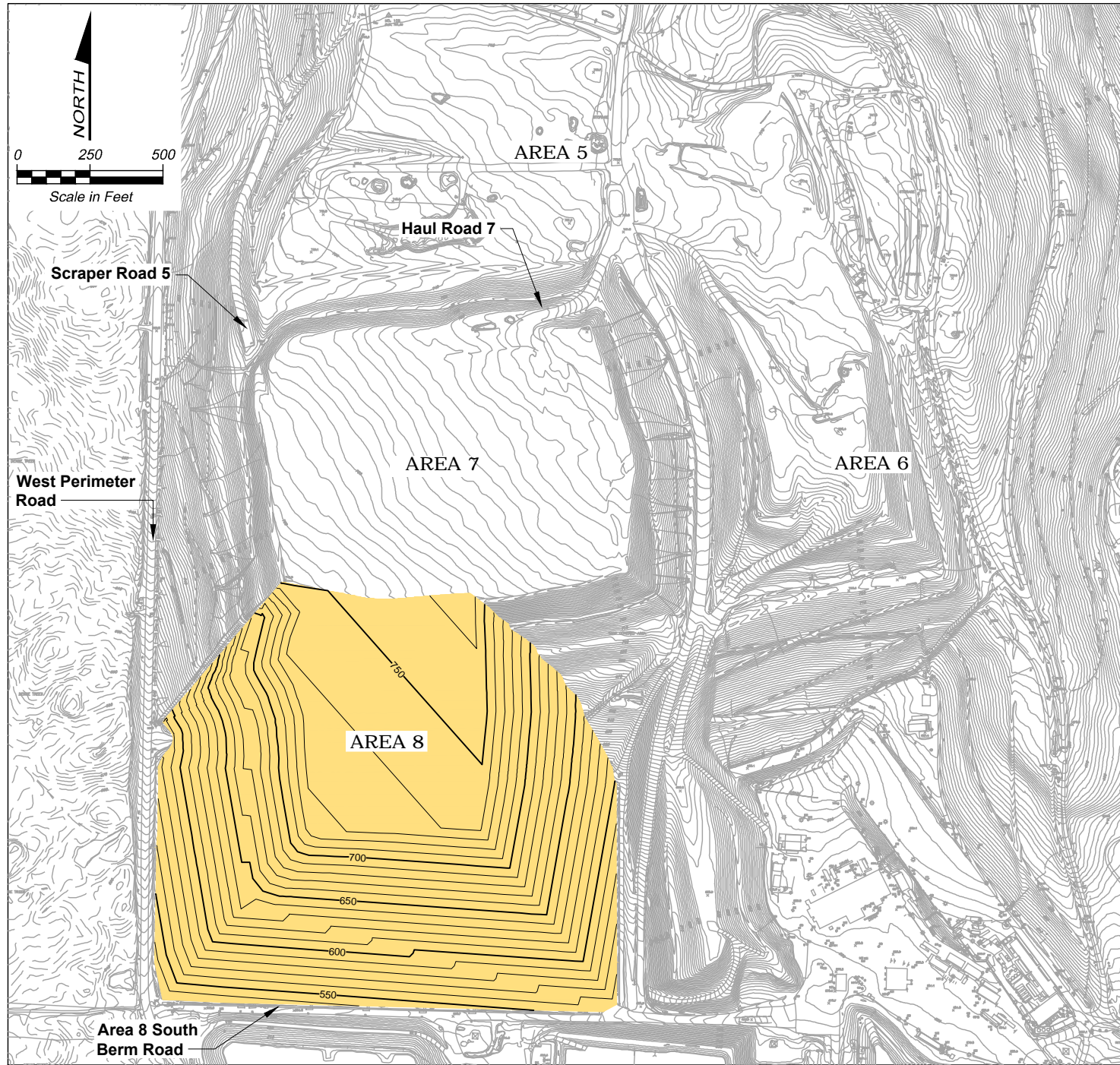


PROPOSED CONDITIONS

AREA 8 TOP DECK WITH CONSTANT 4% SLOPE FROM NE CORNER TO SW CORNER

VOLUME:
7.84 MCY

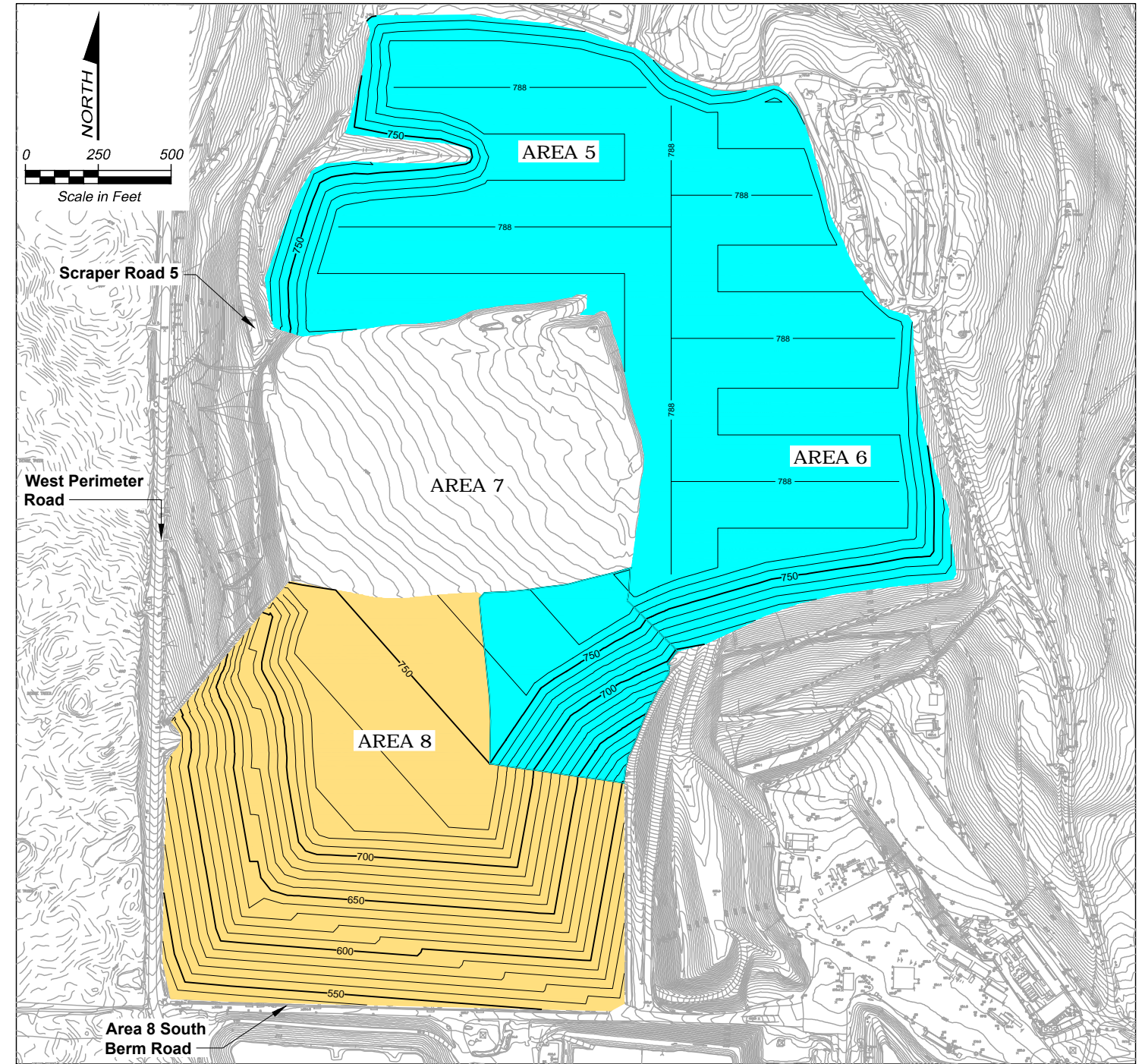
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 Xref Filename: | X19-10628_ Ex_Topo | X19-10628_Prop_Road | X19-10628_Area 5 6 to 788 | X19-10628_Area 8 No Action Alt | X19-10628_Wedge |



EXISTING CONDITIONS

THE EXISTING CONDITIONS INCLUDES THE FOLLOWING ELEMENTS:

- AREA 8 PROPOSED FULL; 7.84 MCY
- FALL 2019 AERIAL, FLOWN OCTOBER 29, 2019



PROPOSED CONDITIONS

AREA 8 TOP DECK WITH WITH CONSTANT 4% SLOPE FROM NE CORNER TO SW CORNER; AREA 5 & 6 TOP DECK

VOLUME:

AREA 8: 7.84 MCY
 AREA 5 & 6: 3.03 MCY

NET VOLUME:

10,870,000 CY

Volume Report

Cedar Hills Landfill Maple Valley, WA

Presented to:

King County Department of Natural Resources
Solid Waste Division
201 South Jackson Street #701
Seattle, WA 98104

Submitted by:



860 McKinley Street
Eugene, OR 97402

May 28, 2021

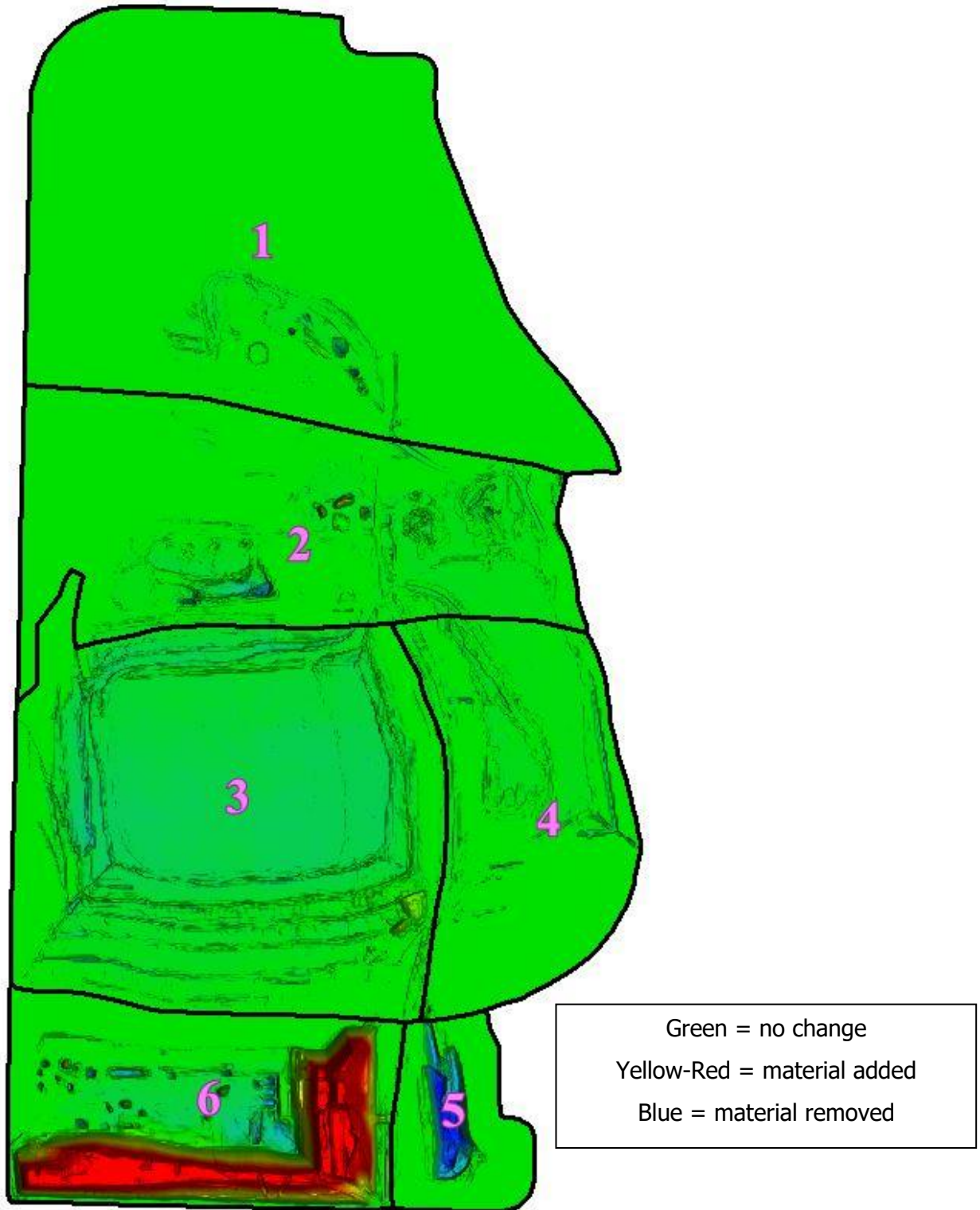
Cedar Hills Landfill
 Job # 200332
 (Volumes Computed TIN surface to TIN surface)
 Photo Dates: 2 Nov 2020 to 31 Mar 2021

Zone Name	Area (ft ²)	Volume (ft ³)			Volume (yd ³)		
		Cut(-)	Fill(+)	Net	Cut(-)	Fill(+)	Net
1	3,419,429	119,816	7,245	-112,571	4,438	269	-4,169
2	2,081,940	442,370	41,862	-400,507	16,384	1,550	-14,834
3	2,956,353	3,546,595	97,595	-3,449,000	131,355	3,615	-127,740
4	1,276,760	259,929	5,890	-254,039	9,627	218	-9,409
5	421,727	643,721	26,403	-617,318	23,842	978	-22,864
6	1,423,185	544,515	13,133,226	12,588,711	20,167	486,416	466,249

Approved by:  CP #1252



Cedar Hills Landfill
Volume Comparison from Fall 2020 to Spring 2021
Isopach Surface



Perspective view (Hill shade): Spring 2021 surface



Perspective view (Hill shade): Fall 2020 surface



Volume Report

Cedar Hills Landfill Maple Valley, WA

Presented to:

King County Department of Natural Resources
Solid Waste Division
201 South Jackson Street #701
Seattle, WA 98104

Submitted by:



860 McKinley Street
Eugene, OR 97402

November 1, 2021

Cedar Hills Landfill

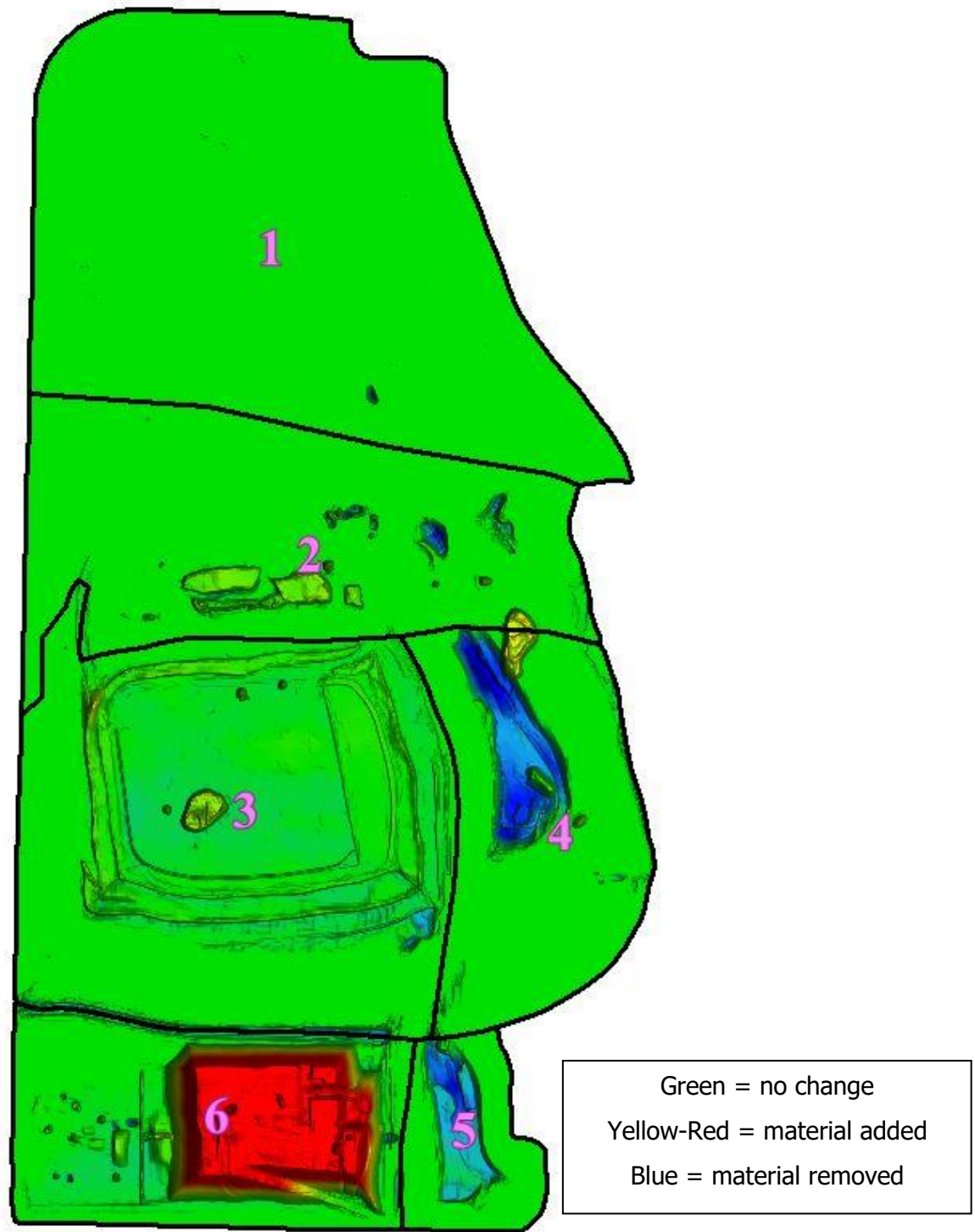
Job # 210363

(Volumes Computed TIN surface to TIN surface)

Photo Dates: 31 Mar 2021 to 19 Oct 2021

Zone Name	Area (ft ²)	Volume (ft ³)			Volume (yd ³)		
		Cut(-)	Fill(+)	Net	Cut(-)	Fill(+)	Net
1	3,419,429	14,226	356	-13,871	527	13	-514
2	2,081,940	185,629	529,573	343,944	6,875	19,614	12,739
3	2,956,353	1,578,072	1,009,140	-568,932	58,447	37,376	-21,072
4	1,276,760	1,875,345	252,536	-1,622,809	69,457	9,353	-60,104
5	421,727	757,355	11,692	-745,663	28,050	433	-27,617
6	1,423,185	463,986	17,736,602	17,272,617	17,185	656,911	639,727

Cedar Hills Landfill
Volume Comparison from Spring 2021 to Fall 2021
Isopach Surface



Perspective view (Hill shade): Fall 2021 surface



Perspective view (Hill shade): Spring 2021 surface

