

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)		--	4,420,703	3,030,000	7,450,703
Area Capacity (tons) @ 1600 lbs/CY		--	3,536,562	2,424,000	5,960,562
Date	Monthly Tonnage ³	Area 7 Remaining Capacity (tons)	Area 8 Remaining Capacity (tons)	Areas 5 & 6 Remaining Capacity (tons)	Total Remaining Capacity (tons)
November, 2022	40,718	--	3,495,844	2,424,000	5,919,844
December, 2022	64,200	--	3,431,644	2,424,000	5,855,644
January, 2023	74,675	--	3,356,969	2,424,000	5,780,969
February, 2023	74,675	--	3,282,294	2,424,000	5,706,294
March, 2023	74,675	--	3,207,619	2,424,000	5,631,619
April, 2023	74,675	--	3,132,944	2,424,000	5,556,944
May, 2023	74,675	--	3,058,269	2,424,000	5,482,269
June, 2023	74,675	--	2,983,595	2,424,000	5,407,595
July, 2023	74,675	--	2,908,920	2,424,000	5,332,920
August, 2023	74,675	--	2,834,245	2,424,000	5,258,245
September, 2023	74,675	--	2,759,570	2,424,000	5,183,570
October, 2023	74,675	--	2,684,895	2,424,000	5,108,895
November, 2023	74,675	--	2,610,220	2,424,000	5,034,220
December, 2023	74,675	--	2,535,545	2,424,000	4,959,545
January, 2024	74,945	--	2,460,600	2,424,000	4,884,600
February, 2024	74,945	--	2,385,655	2,424,000	4,809,655
March, 2024	74,945	--	2,310,710	2,424,000	4,734,710
April, 2024	74,945	--	2,235,765	2,424,000	4,659,765
May, 2024	74,945	--	2,160,820	2,424,000	4,584,820
June, 2024	74,945	--	2,085,876	2,424,000	4,509,876
July, 2024	74,945	--	2,010,931	2,424,000	4,434,931
August, 2024	74,945	--	1,935,986	2,424,000	4,359,986
September, 2024	74,945	--	1,861,041	2,424,000	4,285,041
October, 2024	74,945	--	1,786,096	2,424,000	4,210,096
November, 2024	74,945	--	1,711,151	2,424,000	4,135,151
December, 2024	74,945	--	1,636,206	2,424,000	4,060,206
January, 2025	75,215	--	1,560,991	2,424,000	3,984,991
February, 2025	75,215	--	1,485,776	2,424,000	3,909,776
March, 2025	75,215	--	1,410,561	2,424,000	3,834,561
April, 2025	75,215	--	1,335,346	2,424,000	3,759,346
May, 2025	75,215	--	1,260,131	2,424,000	3,684,131

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June, 2025	75,215	--	1,184,917	2,424,000	3,608,916
July, 2025	75,215	--	1,109,702	2,424,000	3,533,702
August, 2025	75,215	--	1,034,487	2,424,000	3,458,487
September, 2025	75,215	--	959,272	2,424,000	3,383,272
October, 2025	75,215	--	884,057	2,424,000	3,308,057
November, 2025	75,215	--	808,842	2,424,000	3,232,842
December, 2025	75,215	--	733,627	2,424,000	3,157,627
January, 2026	75,272	--	658,355	2,424,000	3,082,355
February, 2026	75,272	--	583,083	2,424,000	3,007,083
March, 2026	75,272	--	507,811	2,424,000	2,931,811
April, 2026	75,272	--	432,539	2,424,000	2,856,539
May, 2026	75,272	--	357,267	2,424,000	2,781,267
June, 2026	75,272	--	281,995	2,424,000	2,705,994
July, 2026	75,272	--	206,722	2,424,000	2,630,722
August, 2026	75,272	--	131,450	2,424,000	2,555,450
September, 2026	75,272	--	56,178	2,424,000	2,480,178
October, 2026	75,272	--	--	2,404,906	2,404,906
November, 2026	75,272	--	--	2,329,634	2,329,634
December, 2026	75,272	--	--	2,254,362	2,254,362
January, 2027	75,329	--	--	2,179,033	2,179,033
February, 2027	75,329	--	--	2,103,704	2,103,703
March, 2027	75,329	--	--	2,028,374	2,028,374
April, 2027	75,329	--	--	1,953,045	1,953,045
May, 2027	75,329	--	--	1,877,716	1,877,716
June, 2027	75,329	--	--	1,802,387	1,802,386
July, 2027	75,329	--	--	1,727,057	1,727,057
August, 2027	75,329	--	--	1,651,728	1,651,728
September, 2027	75,329	--	--	1,576,399	1,576,399
October, 2027	75,329	--	--	1,501,070	1,501,069
November, 2027	75,329	--	--	1,425,740	1,425,740
December, 2027	75,329	--	--	1,350,411	1,350,411

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

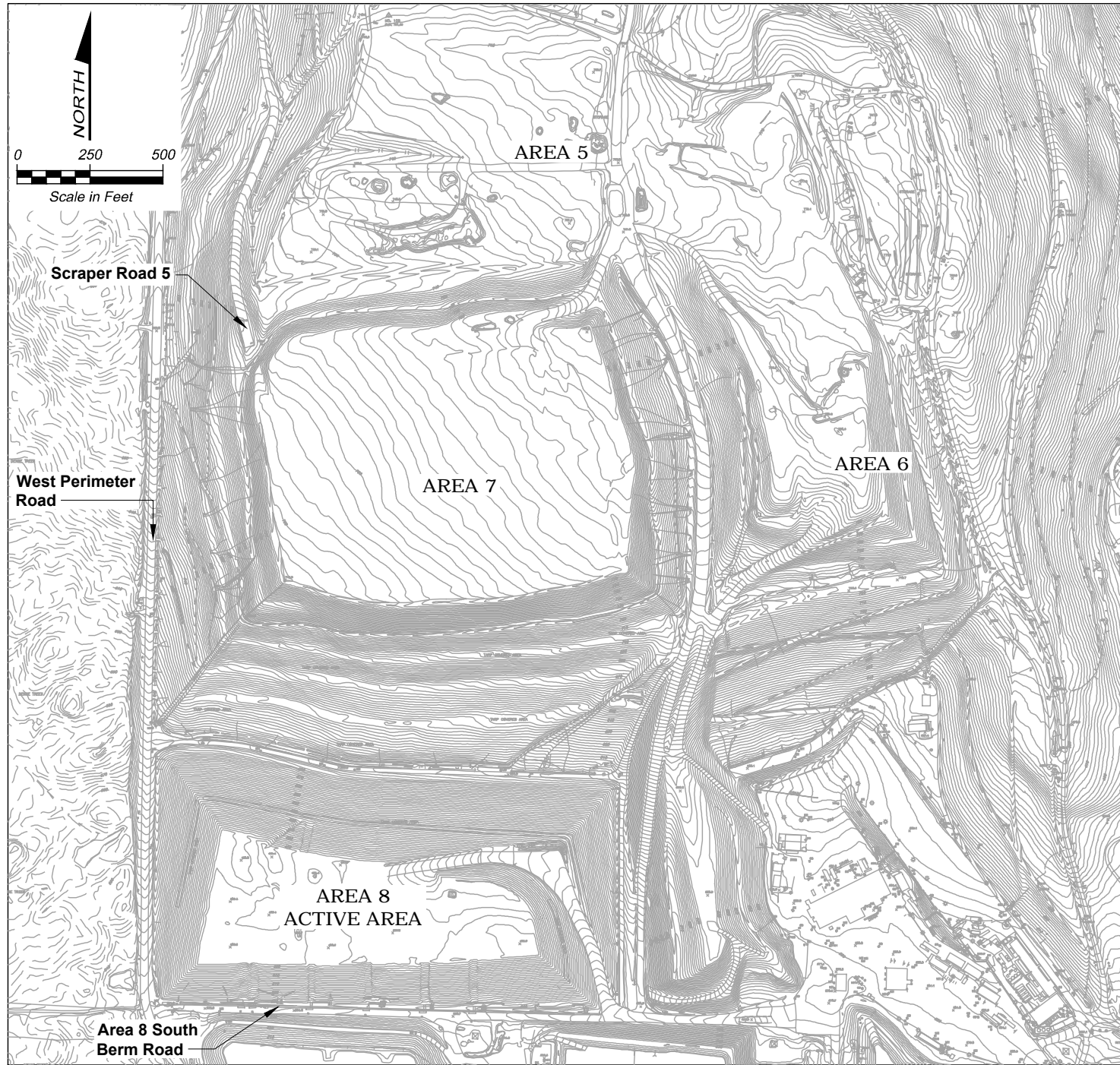
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Area Capacity (tons) @ 1600 lbs/CY		--	3,536,562	2,424,000	5,960,562
Date	Monthly Tonnage ³	Area 7 Remaining Capacity (tons)	Area 8 Remaining Capacity (tons)	Areas 5 & 6 Remaining Capacity (tons)	Total Remaining Capacity (tons)
January, 2028	75,807	--	--	1,274,604	1,274,604
February, 2028	75,807	--	--	1,198,798	1,198,798
March, 2028	75,807	--	--	1,122,991	1,122,991
April, 2028	75,807	--	--	1,047,185	1,047,185
May, 2028	75,807	--	--	971,378	971,378
June, 2028	75,807	--	--	895,572	895,571
July, 2028	75,807	--	--	819,765	819,765
August, 2028	75,807	--	--	743,958	743,958
September, 2028	75,807	--	--	668,152	668,152
October, 2028	75,807	--	--	592,345	592,345
November, 2028	75,807	--	--	516,539	516,539
December, 2028	75,807	--	--	440,732	440,732
January, 2029	76,584	--	--	364,148	364,148
February, 2029	76,584	--	--	287,565	287,565
March, 2029	76,584	--	--	210,981	210,981
April, 2029	76,584	--	--	134,398	134,398
May, 2029	76,584	--	--	57,814	57,814
June, 2029	76,584	--	--	--	--

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. 4,875,840 CY capacity remaining as of June 1, 2022 aerial flyover. 4,420,703 CY capacity remaining as of November 18, 2022 aerial flyover.

³ Monthly tonnage either actual amounts (Cell B46 in Tonnage Report for each month), or based on February 2022 forecast into future months. Flyovers that occur within the middle of the month prorate the capacity for the remaining tonnage in the same month.

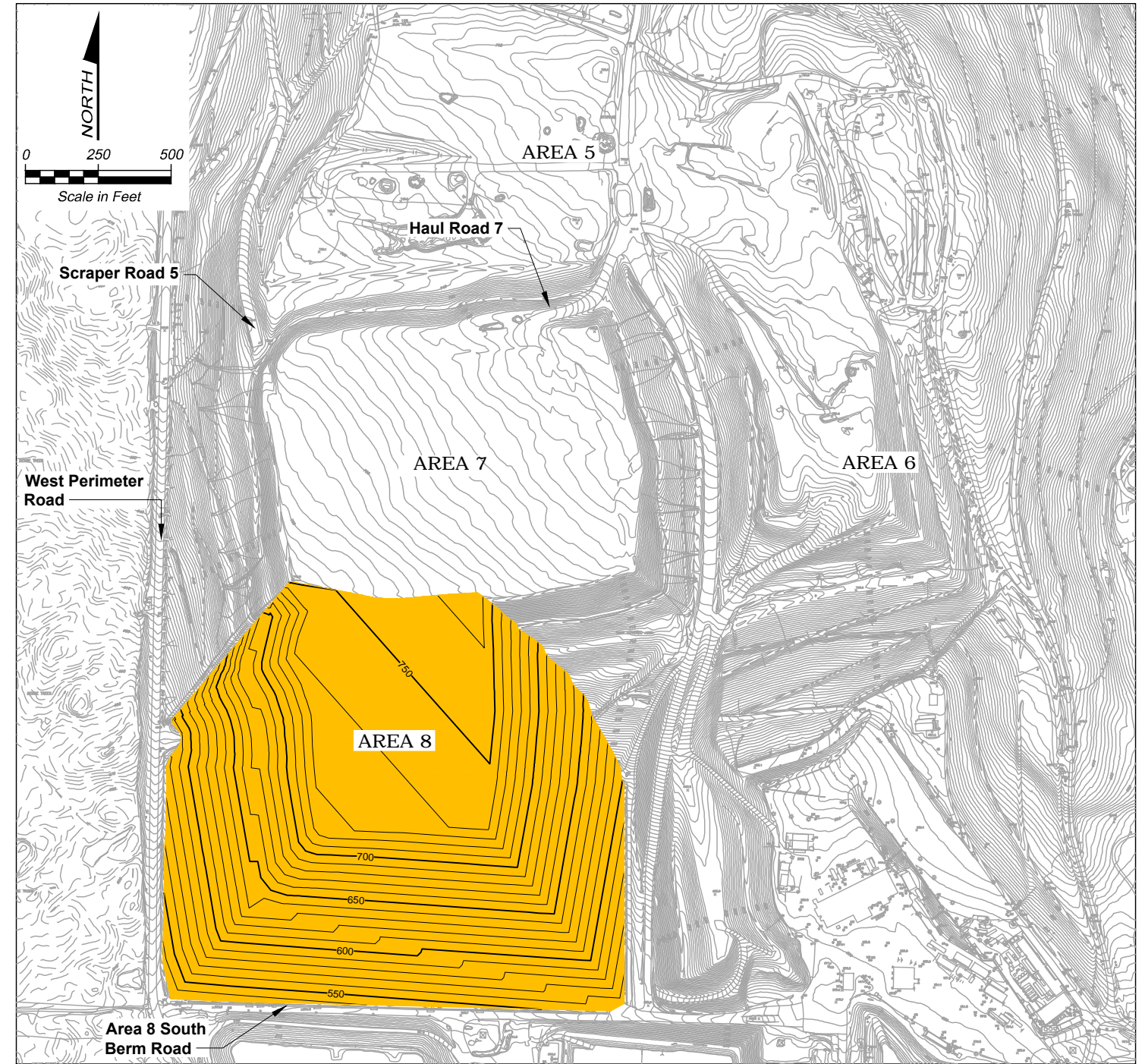
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 Xref Filename: | X19-10628_Ex_Topo | X19-10628_Prop_Road | X19-10628_Area 8 No Action Alt | X19-10628_Scraper Rd 5 | X19-10628_Haul Rd 6 |



EXISTING CONDITIONS

THE EXISTING CONDITIONS INCLUDES THE FOLLOWING ELEMENTS:

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

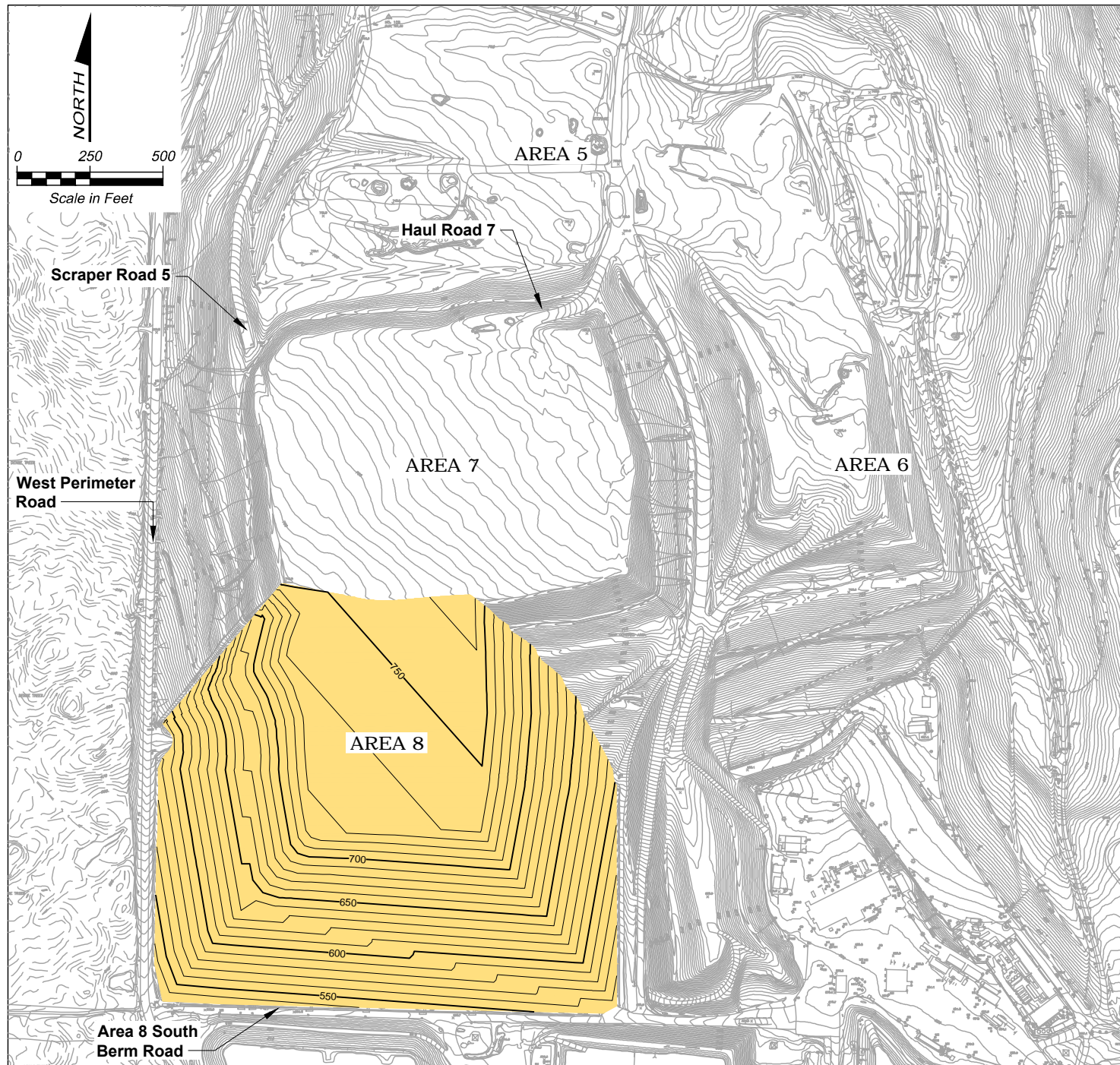


PROPOSED CONDITIONS

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

VOLUME:
7.84 MCY

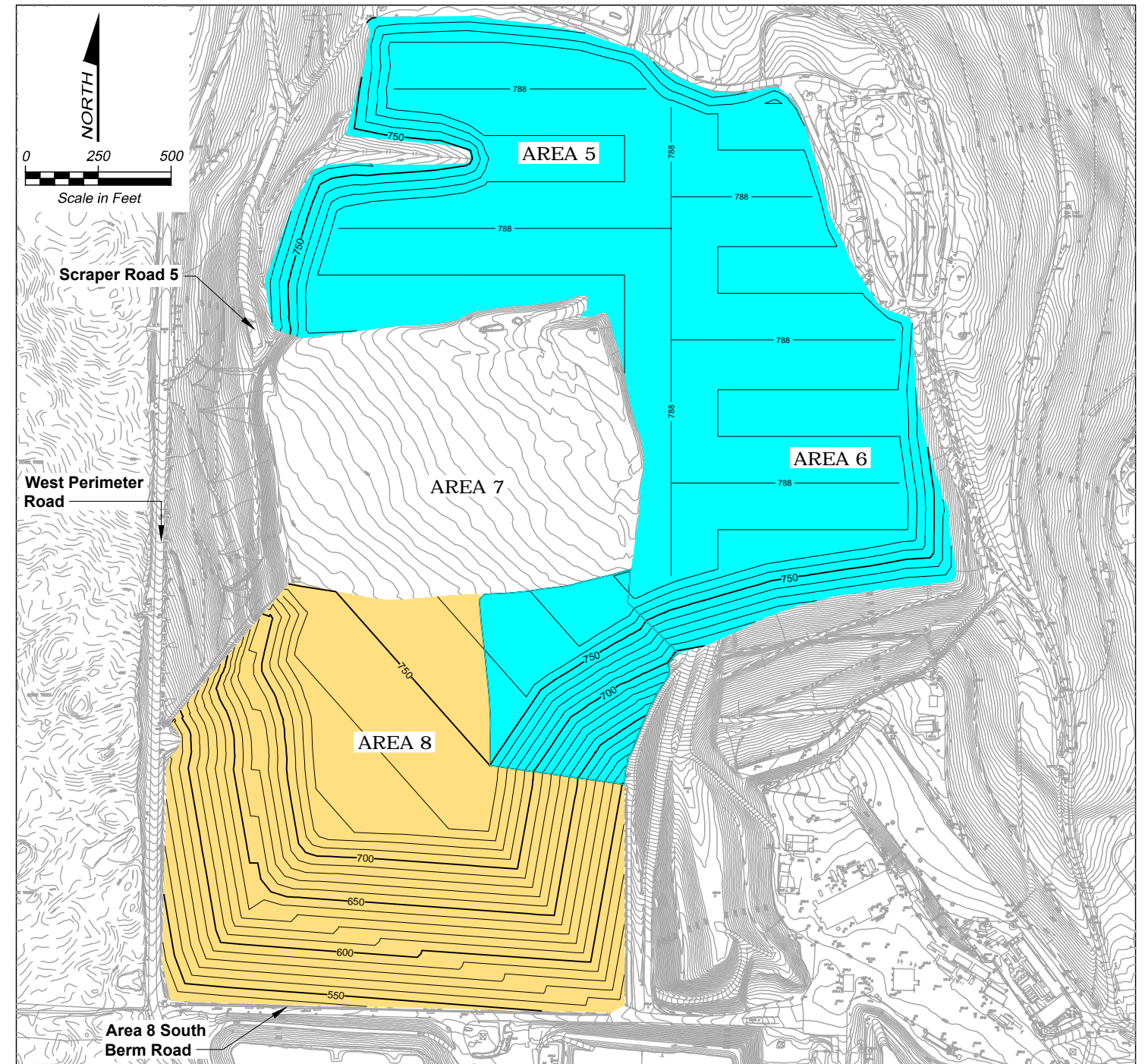
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 Xref Filename: | X19-10628_ Ex_Topo | X19-10628_Prop_Road | X19-10628_Area 5 6 to 788 | X19-10628_Area 8 No Action Alt | X19-10628_Wedge |



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:

GEOTERRA

860 McKinley Street
Eugene, OR 97402

January 10, 2023

Cedar Hills Landfill

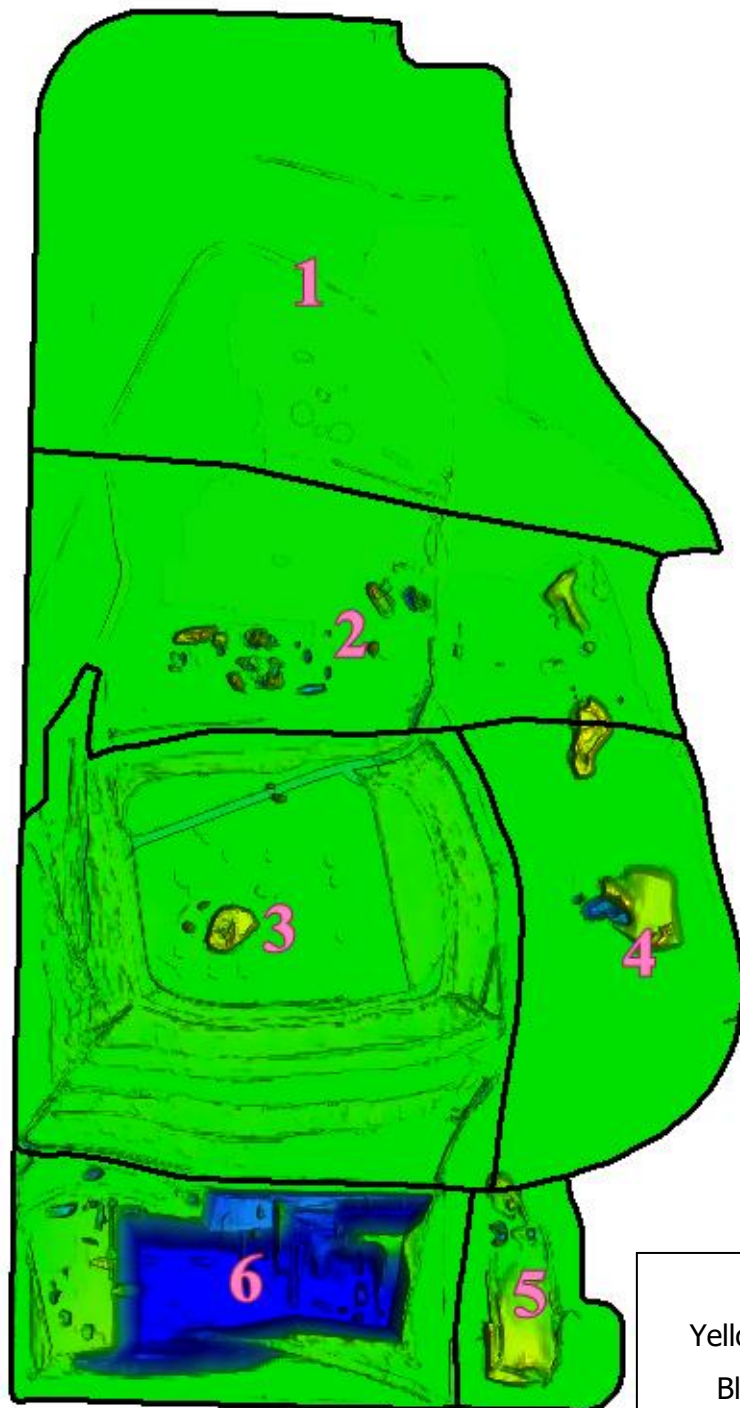
Job # 220412

(Volumes Computed TIN surface to TIN surface)

Photo Dates: 1 June 2022 to 18 November 2022

Zone Name	Area (ft ²)	Volume (ft ³)			Volume (yd ³)		
		Cut(-)	Fill(+)	Net	Cut(-)	Fill(+)	Net
1	3,419,429	703	556,370	555,667	26	20,606	20,580
2	2,081,940	53,940	793,374	739,434	1,998	29,384	27,386
3	2,956,353	91,386	1,916,292	1,824,906	3,385	70,974	67,589
4	1,276,760	86,180	769,960	683,780	3,192	28,517	25,325
5	421,727	14,691	752,566	737,875	544	27,873	27,329
6	1,423,185	12,999,614	710,923	-12,288,691	481,467	26,330	-455,137

Cedar Hills Landfill
Volume Comparison from Spring 2022 to Fall 2022
Isopach Surface



Perspective view (Hill shade): Fall 2022 surface



Perspective view (Hill shade): Spring 2022 surface

