



Municipal Solid Waste Sanitary Landfill Financial Assurance Report Form

SECTION 1: FACILITY INFORMATION

(please print or type)

Information Requested

Facility Name: _____ Permit Number: _____

Permitted Agency/Entity: _____

SECTION 2: CLOSURE/POSTCLOSURE OR CORRECTIVE ACTION COST ESTIMATES

| Information Requested | Cost Estimate | Date of Cost Estimate |
|--|---------------|-----------------------|
| Updated Closure Cost Estimate | \$ | |
| Updated Postclosure Cost Estimate | \$ | |
| Initial or Updated Corrective Action Cost Estimate | \$ | |

*Attach closure/postclosure cost estimate(s) signed and certified by an Iowa-licensed professional engineer. Cost estimates shall include, at a minimum, each of the cost line items defined in 113.14(3)"c" for closure and 113.14(4)"c" for postclosure. Please provide closure and/or postclosure site area acreage information with the estimates.

Provide a cost estimate for corrective action only if corrective action is required and a corrective action plan has been approved by the Department. Attach the corrective action cost estimate signed and certified by an Iowa-licensed professional engineer. The cost estimate shall account for total costs of the activities described in the approved corrective action plan for the corrective action period.

SECTION 3: FACILITY WASTE TONNAGE INFORMATION

| Information Requested | Tons |
|---|------|
| Remaining permitted capacity as of the beginning of permit holder's current fiscal year | |
| Amount of waste disposed of at the facility during the prior fiscal year | |

SECTION 4: PROOF OF COMPLIANCE

Publicly Owned Municipal Solid Waste Landfills

(ATTACH AUDIT REPORT)

Owner's Most Recent Annual Audit Report

Prepared by: _____

For fiscal year ending: _____

Privately Owned Municipal Solid Waste Landfills

(ATTACH AFFIDAVIT)

Attach owner/operator's affidavit indicating that an annual review has been performed by a certified public accountant to determine whether the privately owned landfill is in compliance with IAC 567 Chapter 113. The affidavit shall state the name of the certified public accountant, the dates and conclusions of the review, and the steps taken to rectify any deficiencies identified by the accountant.

SECTION 5: FINANCIAL ASSURANCE INSTRUMENT**Type and Value of Financial Assurance Instrument(s)***(ATTACH INSTRUMENT(S))*

| Assurance Instrument | Establishment Date | Mechanism Covers | Instrument Value* |
|---|---------------------------|--|--------------------------|
| Trust Fund 567 IAC 113.14(6)“a” | | Closure <input type="checkbox"/> Postclosure <input type="checkbox"/> Corrective Action <input type="checkbox"/> | \$ |
| Surety Bond 567 IAC 113.14(6)“b” | | Closure <input type="checkbox"/> Postclosure <input type="checkbox"/> Corrective Action <input type="checkbox"/> | \$ |
| Letter of Credit 567 IAC 113.14(6)“c” | | Closure <input type="checkbox"/> Postclosure <input type="checkbox"/> Corrective Action <input type="checkbox"/> | \$ |
| Insurance 567 IAC 113.14(6)“d” | | Closure <input type="checkbox"/> Postclosure <input type="checkbox"/> Corrective Action <input type="checkbox"/> | \$ |
| Corporate Financial Test 567 IAC 113.14(6)“e” | | Closure <input type="checkbox"/> Postclosure <input type="checkbox"/> Corrective Action <input type="checkbox"/> | \$ |
| Local Gov’t. Financial Test 567 IAC 113.14(6)“f” | | Closure <input type="checkbox"/> Postclosure <input type="checkbox"/> Corrective Action <input type="checkbox"/> | \$ |
| Corporate Guarantee 567 IAC 113.14(6)“g” | | Closure <input type="checkbox"/> Postclosure <input type="checkbox"/> Corrective Action <input type="checkbox"/> | \$ |
| Local Gov’t Guarantee 567 IAC 113.14(6)“h” | | Closure <input type="checkbox"/> Postclosure <input type="checkbox"/> Corrective Action <input type="checkbox"/> | \$ |
| Local Gov’t. Dedicated Fund 567 IAC 113.14(6)“i” | | Closure <input type="checkbox"/> Postclosure <input type="checkbox"/> Corrective Action <input type="checkbox"/> | \$ |

*Pursuant to IAC 567 113.14(9), if account(s) are restricted/reserved to pay for closure, postclosure or corrective action costs, then the amount of the financial assurance instrument may be reduced by the sum of the cash balance of the account(s) established to comply with subrule 113.14(8).

SECTION 6: INITIAL PROOF OF ESTABLISHMENT OF ACCOUNTS**Check Which Applies:**☐ New Mechanism☐ Previously Submitted

Pursuant to IAC 567 Chapter 113.14(8)“f”, documentation of the establishment of accounts is to be submitted to the department by April 1, 2003 for currently permitted MSWLFs. Permit holders for MSWLFs permitted after April 1, 2003, shall submit documentation of the establishment of accounts prior to the MSWLF’s initial receipt of waste.

Please attach documentation indicating accounts/fund have been established for closure and postclosure care and if the account(s) are restricted/reserved for closure or postclosure care. Examples of documentation include bank statements for closure/postclosure accounts, letter signed by the chief financial officer, letter from certified public accountant, etc.

Accounts established pursuant to paragraph 113.14(6)“a” for trust funds or paragraph 113.14(6)“i” for local government dedicated funds also satisfies the requirements of this subrule, and the permit holder shall not be required to establish additional closure and postclosure accounts.

SECTION 7: CLOSURE AND POSTCLOSURE ACCOUNTS

Completion of the following closure and postclosure account information complies with the annual financial statement requirements of IAC 567 113.14(3)“a” and 113.14(4)“a” by indicating the current balance(s) of the closure/postclosure account(s) or dedicated/trust fund and the projected amount(s) to be deposited in the account(s).

Under “Beginning Balance”, please state the account/fund balance 30 days after the start of the previous fiscal year, for “Ending Balance”, indicate the account balance 30 days after the close of the previous fiscal year, and for “Projected Deposit”, indicate the amount to be deposited within 30 days of the close of the permit holder’s fiscal year.

| Information Requested | Beginning Balance | Ending Balance | Projected Deposit |
|---|-------------------|----------------|-------------------|
| Closure Account Balance <i>(see formula below)</i> | \$ | \$ | \$ |
| Postclosure Account Balance <i>(see formula below)</i> | \$ | \$ | \$ |
| Or | | | |
| Dedicated Fund Balance <i>(see formula below)</i> | \$ | \$ | \$ |
| Trust Fund Balance <i>(see formula below)</i> | \$ | \$ | \$ |

Formula for Projected Deposits
Closure or Postclosure Account

$$\frac{CE - CB}{RPC} \times TR$$

Where “CE” is the closure or postclosure cost estimate, “CB” is the balance 30 days after close of the previous fiscal year, “RPC” is the remaining permitted capacity in tons, of the landfill from the beginning of the current fiscal year, and “TR” is the total number of tons of solid waste disposed in the prior year.

Dedicated/Trust Fund

$$\frac{CE - CB}{Y}$$

Where “CE” is the closure or postclosure cost estimate, “CB” is the balance 30 days after close of the previous fiscal year, and “Y” is number of years remaining in the pay-in period.

If needed, the space below can be used to show calculations for projected deposits

| | |
|---------|-------------|
| Closure | Postclosure |
| | |

SECTION 8: PERMIT HOLDER ENDORSEMENT

Submittal of this completed and endorsed form along with all required documentation establishes Notification and Proof of Permit Holder Compliance with IAC 567 Chapter 113.

Name of Official: _____ Title: _____

Agency/Entity: _____

Address: _____

City: _____ State: _____ Zip: _____

Telephone: _____ Fax: _____

Email Address: _____

Signature of Official: _____ Date: _____

Questions? Contact Chad Stobbe at (515) 201-8272 or Chadd.Stobbe@dnr.iowa.gov



Memorandum

Foth Infrastructure & Environment, LLC
411 6th Ave SE, Suite 400
Cedar Rapids, IA 52401
(319) 365-9565
foth.com

February 14, 2025

TO: Kenneth Miller, DMASWA

CC:

FR: Brian Harthun, Foth

RE: 2025 Closure/Post Closure Costs

Attached is the updated engineering estimate for the Closure/Post Closure Cost estimate for Cells 1-9 including the abutment liner in Cell 9. Reviewing the 2024 unit costs and comparing it to the IDNR published Inflation Factor of 1.024, Foth updated the unit costs utilizing current market prices on similar projects during the 2024 calendar year.

Below is the updated Closure Post Closure Cost. The total increase from 2023 to 2024 is \$398,896. Attached separately is the breakdown of the Closure/Post Cost Estimate.

| DMASWA Closure/Post Closure Cost Estimate | | |
|--|-------------|--------------------|
| | 2022 | 2023 |
| Closure Cost | \$4,542,350 | \$4,660,508 |
| Post Closure Cost | \$2,649,812 | \$2,718,732 |
| Total | \$7,192,162 | \$7,379,239 |

Closure/Post Closure Cost Estimate
FOR THE
Dubuque Metropolitan Area Solid Waste Agency
DUBUQUE, IOWA
February 14, 2025
Permit No. 31-SDP-2-75P



I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.



Date: 3/25/2025

BRIAN K. HARTHUN, P.E.

My renewal date is December 31, 2025

Pages or sheets covered by this seal:

DUBUQUE FIANACIAL ASSURANCE COST ESTIMATE

Date of Update **2/14/2025**
Closure/Post Closure Update Year **2025**

Closure Cost Estimate

| Decription | Quantity | Unit | Unit Cost | Extension | 2025 |
|---------------------------|----------|------------|------------|--------------|---------------------|
| Cells 4-8 | | | | | |
| 1 R and D Cap | | 30.7 Acre | \$ 29,000 | \$ 890,300 | |
| 2 Engineering/Permitting | | 1 Each | \$ 90,000 | \$ 90,000 | |
| | | | | Subtotal | \$ 980,300 |
| Cell 9 | | | | | |
| 3 Grading Layer | | 51.9 Acres | \$ 1,210 | \$ 62,799 | |
| 4 Compact Clay Cap | | 54.9 Acres | \$ 8,060 | \$ 442,494 | |
| 5 60-mil HDPE Cap | | 51.9 Acres | \$ 52,272 | \$ 2,712,917 | |
| 6 Rooting Layer | | 51.9 Acres | \$ 4,840 | \$ 251,196 | |
| 7 Vegetation Layer | | 51.9 Acres | \$ 2,710 | \$ 140,649 | |
| 8 Erosion Control/Seeding | | 51.9 Acres | \$ 2,000 | \$ 103,800 | |
| 9 Engineering/Permitting | | 1 Each | \$ 300,000 | \$ 300,000 | |
| | | | | Subtotal | \$ 4,013,855 |
| | | | | Total | \$ 4,994,155 |

Post Closure Cost Estimate

| Decription | Quantity | Unit | Extension | |
|---------------------|----------|-----------|--------------------------------|---------------------|
| 1 Cap Maintenance | | 30 events | \$ 27,190 | \$ 815,698 |
| 2 GW Monitoring | | 30 events | \$ 59,107 | \$ 1,773,220 |
| 3 Inspections | | 60 events | \$ 1,773 | \$ 106,410 |
| 4 Leachate Disposal | | 30 events | \$ 2,955 | \$ 88,653 |
| | | | Total Post Closure Cost | \$ 2,783,981 |

Total Closure/Post Closure Estimate **\$ 7,778,136**



Memo

| | |
|----------|---|
| Date: | Monday, January 27, 2025 |
| Project: | November 2023 - November 2024 Airspace Analysis |
| To: | Dubuque Metropolitan Area Solid Waste Agency (DMASWA) ATTN: Ken Miller, Joe Mayne |
| From: | HDR Engineering, Inc. Will Nicholson, P.E., Katie Kinley, P.E., Brendan Bunker, E.I.T. |

Introduction

The November 2024 airspace analysis for the Dubuque Metropolitan Area Solid Waste Agency (agency or site) is comprised of tonnage and survey data spanning from November 1, 2023 to November 7, 2024 (period) for determination of the period airspace utilization factor (density). For soil borrow comparison, survey data spanning October 6, 2022 to November 7, 2024 was utilized. The 2-year period for soil usage analysis was assumed to be equal between the two comparison periods. The calculations provided below summarize the site's soil use, airspace utilization, and remaining site life as of November 7, 2024.

References/Assumptions

1. Aerial topographic map dated October 6, 2022 (Soil Borrow Comparison - Sheet C004).
2. Aerial topographic map dated November 1, 2023 (2023 Topo Survey - Sheet C002).
3. Aerial topographic map dated November 7, 2024 (2024 Topo Survey - Sheet C003).
4. Landfill tonnages from November 1, 2023 to November 7, 2024.
5. Historic waste receipt and airspace utilization factors (Foth).
6. It is assumed that aerial topographic maps represent existing grades at the end of the day on the date flown.
7. Calculations for remaining life and remaining tonnages are based on the average 3-year waste acceptance and compaction.

Analysis

1. Site Areas

| | | | |
|-------------------------|--------------|----|---|
| Total Permitted Area: | 115.4 | AC | (Cells 1-9 + Abutment Liner Phase I & Phase II) |
| Total Constructed Area: | 111.2 | AC | (Permitted Area less Abutment Liner Phase II) |
| Total Capped Area: | 32.8 | AC | (Cells 1-3) |
| Cap Area Remaining: | 82.6 | AC | (Cells 3-9 + Abutment Liner Area) |

2. Soil Usage This Period

Survey data provided by the Agency from the two-year period spanning October 6, 2022 and November 7, 2024 was used to obtain the volume of cover materials used. The total soil usage for the two-year period was split evenly such that the soil use for the current period (November 1, 2023 to November 7, 2024) is half of the total soil usage, as shown below.

| | | |
|---------------------------------------|---------------|-------|
| Total Soil Usage (Oct-22 to Nov-24): | 66,530 | CY |
| Est. Daily/Int. Cover Use (Total / 2) | 33,265 | CY |
| Operational Cover Use ¹ : | 14.0% | CY/CY |

¹(Cover CY / Airspace Consumed CY)

3. Operational Density

Operational density captures both compaction efforts and consolidation from settlement in the waste mass underneath the current active area. This report assesses areas of active waste placement during the analysis period and conservatively does not include inactive areas. Settlement occurs in inactive areas over time, which can increase the site's overall density, but these areas are excluded from this analysis in order to specifically assess the waste density achieved by operations.

The "active" area of the landfill is determined by identifying grade changes between surveys. Fill areas generally represent waste placement, and cut areas are identified as soil borrow operations. Soil for operations is currently sourced from the north, south, and stockpile borrow areas.



4. Waste Acceptance and Compaction

Historic waste acceptance and period densities obtained from 2024 Closure/Post-Closure Costs (Foth) appear below along with this period's waste acceptance and density. Waste acceptance for this period showed an increase of 0.5%, and compaction showed an increase of 1.5%.

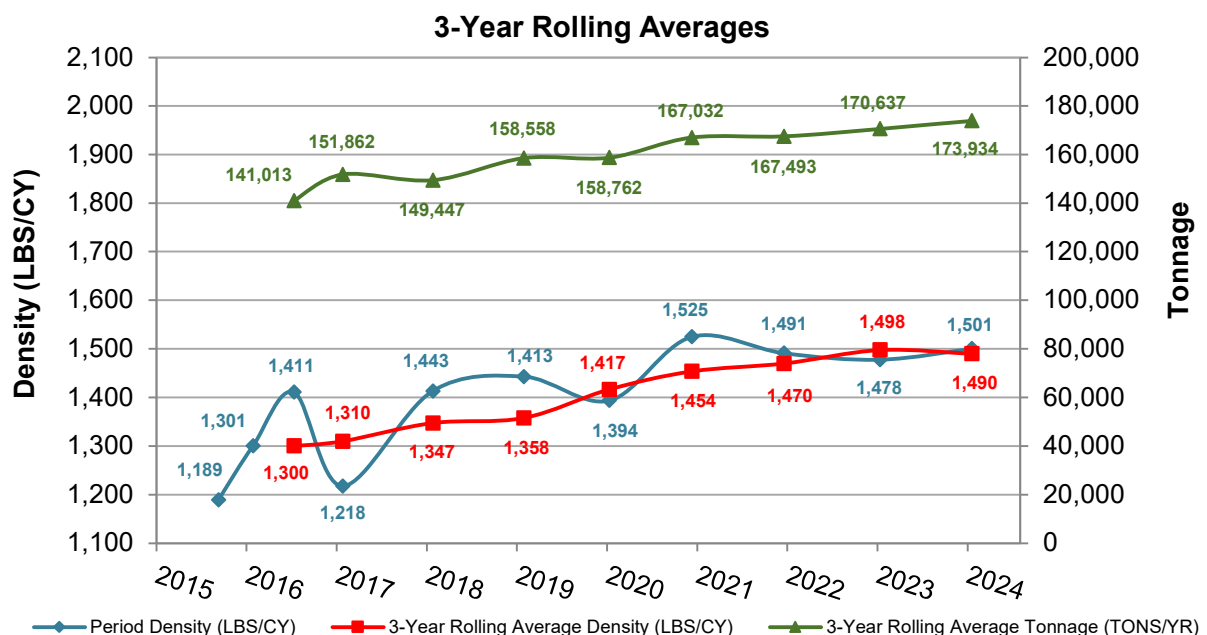
Information provided by Foth in the 2024 Closure/Post-Closure Costs shows a total period airspace consumption of 191,540 CY, resulting in a period density of 1,936 lbs/CY for the period spanning October 6, 2022 through November 1, 2023. This value appeared to be an outlier; therefore, HDR has re-evaluated survey data from this period and calculated a total airspace consumption of 250,947 CY, resulting in a period density of 1,478 lbs/CY. HDR has updated the below table to represent the HDR-analyzed period consumed and period density, which has a direct effect on 3-year rolling averages and remaining site life. This period's density is consistent with historical compaction values.

| Survey Period | Waste Acceptance (TONS) | Period Volume Consumed (CY) | Period Density (LBS/CY) |
|--------------------------|-------------------------|-----------------------------|-------------------------|
| 01/07/2016 to 06/29/2016 | 63,009 | 106,000 | 1,189 |
| 06/30/2016 to 11/17/2016 | 56,914 | 87,510 | 1,301 |
| 11/18/2016 to 05/02/2017 | 65,491 | 92,826 | 1,411 |
| 05/03/2017 to 11/15/2017 | 88,484 | 145,322 | 1,218 |
| 11/16/2017 to 11/15/2018 | 140,091 | 198,253 | 1,443 |
| 11/16/2018 to 11/19/2019 | 173,193 | 240,067 | 1,413 |
| 11/20/2019 to 10/30/2020 | 155,988 | 223,825 | 1,394 |
| 10/31/2020 to 09/29/2021 | 150,880 | 197,887 | 1,454 |
| 09/30/2021 to 10/08/2022 | 176,957 | 237,328 | 1,491 |
| 10/09/2022 to 11/01/2023 | 185,419 | 250,947 | 1,478 |
| 11/02/2023 to 11/07/2024 | 178,118 | 237,389 | 1,501 |

5. 3-Year Rolling Averages

3-year rolling averages are calculated with each airspace analysis to look for trends and for use in long-term planning. The 3-year rolling averages for this period are shown below, and trends in tonnages and densities for each period are shown in the chart below:

3-Year Average Compaction: $\frac{1,490}{173,934}$ LBS/CY TONS/YR





6. Remaining Site Life

The remaining airspace for the MSW footprint has been evaluated in two (2) ways, both of which appear below:

- **Remaining Constructed Airspace**

Remaining constructed airspace is the volume of waste that can be placed within the constructed waste footprint given current topography and remaining projected fill. This volume is used to project when the next cell construction will be required or when achievable and operationally limiting grades are achieved.

Based on current fill operations and fill rates, it is recommended that the next cell (Cell 9 Abutment Liner - Phase II) be constructed during calendar year 2025 in order to not limit future operations at the intersection of Cell 9 Abutment Liner Phase I and Phase II.

- **Remaining Permitted Airspace**

Remaining permitted airspace is calculated from the permitted top of waste (top of intermediate cover) grades compared to existing topography and future permitted cell top of clay (or GCL) grades per the current permit. This incorporates all potential waste that can be disposed within the current waste limits.

| Scenario | Remaining Airspace (CY) | Remaining Tonnage (TONS) ² | Remaining Life (Years & Months) ² | Life End Date |
|---------------------------|-------------------------|---------------------------------------|--|----------------|
| Rem. Constructed Airspace | 2,810,744 | 2,094,004 | 12 Years, 1 Months | November 2036 |
| Rem. Permitted Airspace | 3,471,206 | 2,586,048 | 14 Years, 11 Months | September 2039 |

²The remaining site life and tonnages above were calculated using the 3-year rolling averages for density and tonnage, both shown on the previous page.

Please feel free to reach out to us with any questions and/or comments on any information presented within this report.

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SOURCE: GOOGLE EARTH, FEBRUARY 2024

VICINITY MAP
SCALE: 1" = 1000'

Drawings For

DMASWA Sanitary Landfill

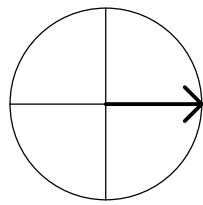
2024 Airspace Analysis

Project No.
10404441

Dubuque, Iowa
January 2025

INDEX OF DRAWINGS

| SHEETS | |
|--------|---------------------------------|
| C000 | COVER SHEET |
| C001 | 2024 SITE AERIAL |
| C002 | 2023 TOPOGRAPHIC SURVEY |
| C003 | 2024 TOPOGRAPHIC SURVEY |
| C004 | CELL 9 PERIOD CONSUMED AIRSPACE |
| C005 | REMAINING CONSTRUCTED AIRSPACE |
| C006 | REMAINING PERMITTED AIRSPACE |

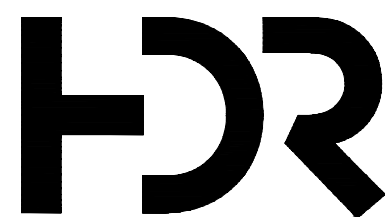


NOTES

1. SITE AERIAL PROVIDED BY AEROVIEW SERVICES DATED NOVEMBER 7, 2024.

LEGEND

- PROP --- PROPERTY BOUNDARY
--- EXISTING PROPERTY LINE
--- WASTE --- LIMITS OF WASTE
--- CELL BOUNDARY
--- EXISTING CLOSURE LIMITS



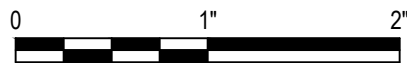
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| 0 | 01-31-2025 | ISSUED FOR CLIENT USE |
| ISSUE | DATE | DESCRIPTION |

| | |
|-----------------|--------------|
| PROJECT MANAGER | W. NICHOLSON |
| CIVIL | W. NICHOLSON |
| DRAWN BY | M. BICKFORD |
| | |
| | |
| | |
| PROJECT NUMBER | 10404441 |

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PURPOSES ONLY
NOT FOR CONSTRUCTION



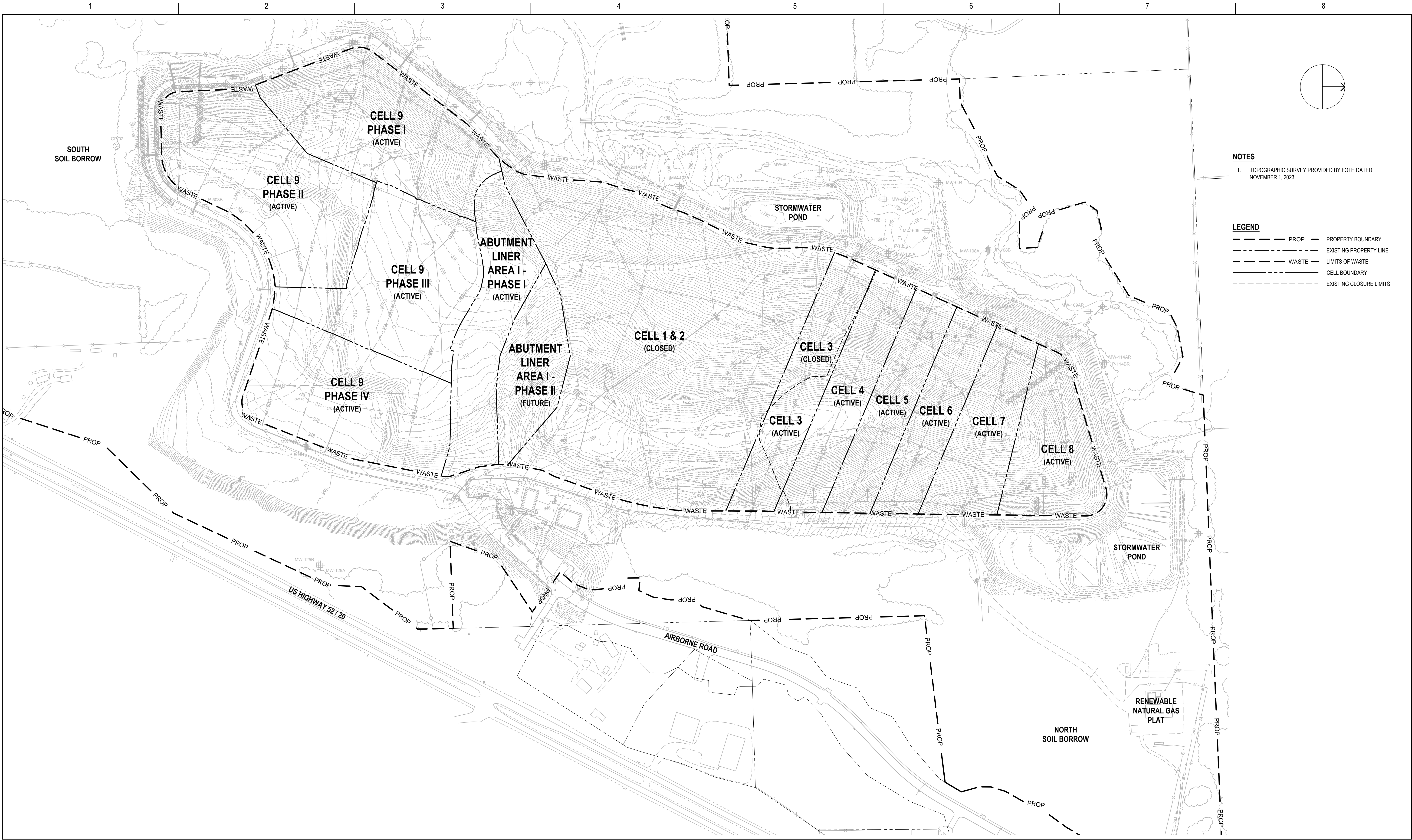
DMASWA SANITARY LANDFILL
ANNUAL AIRSPACE ANALYSIS



2024 AERIAL

FILENAME | C001.dwg
SCALE | 1" = 200'

SHEET
C001

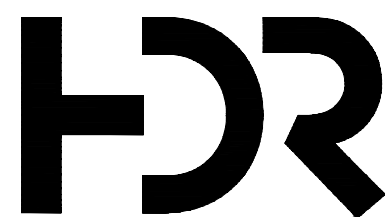


NOTES

1. TOPOGRAPHIC SURVEY PROVIDED BY FOTH DATED NOVEMBER 1, 2023.

LEGEND

— PROP — PROPERTY BOUNDARY
- - - - - EXISTING PROPERTY LINE
- - - - - WASTE — LIMITS OF WASTE
- - - - - CELL BOUNDARY
- - - - - EXISTING CLOSURE LIMITS



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| ISSUE | DATE | DESCRIPTION |

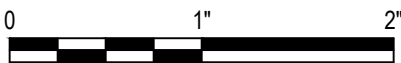
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|-----------------|--------------|
| PROJECT MANAGER | W. NICHOLSON |
| CIVIL | W. NICHOLSON |
| DRAWN BY | M. BICKFORD |
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| PROJECT NUMBER | 10404441 |

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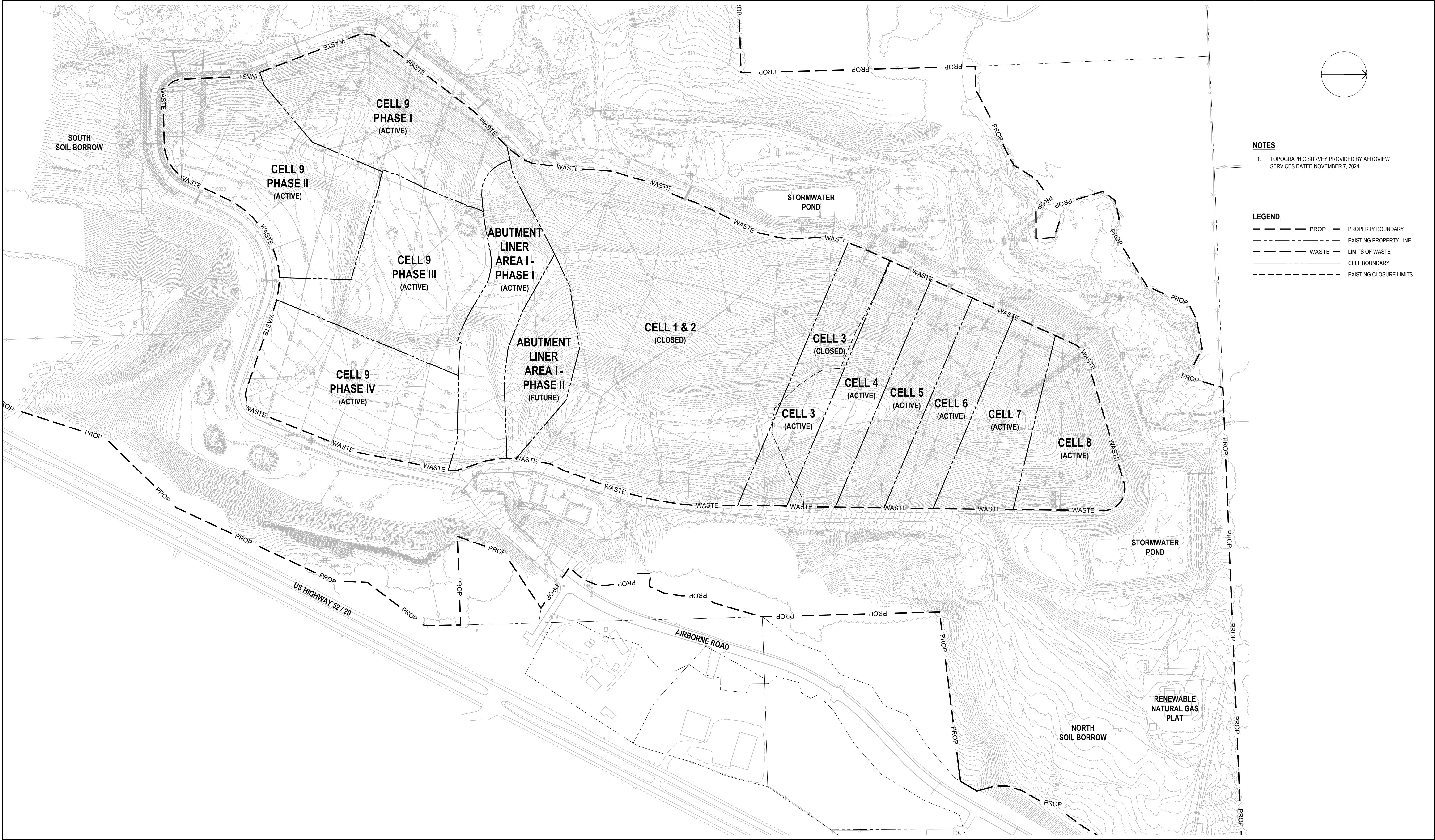
DMASWA SANITARY LANDFILL
ANNUAL AIRSPACE ANALYSIS

2023 TOPO SURVEY



FILENAME | C002.dwg
SCALE | 1" = 200'

SHEET
C002

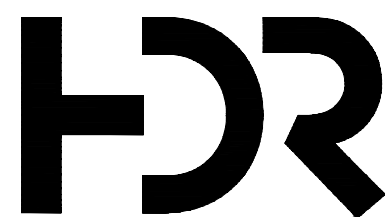


NOTES

1. TOPOGRAPHIC SURVEY PROVIDED BY AEROVIEW SERVICES DATED NOVEMBER 7, 2024.

LEGEND

--- PROP --- PROPERTY BOUNDARY
... EXISTING PROPERTY LINE
- . - WASTE LIMITS OF WASTE
___ CELL BOUNDARY
- - - - - EXISTING CLOSURE LIMITS



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| ISSUE | DATE | DESCRIPTION |

| | | |
|-----------------|--|--------------|
| PROJECT MANAGER | | W. NICHOLSON |
| CIVIL | | W. NICHOLSON |
| DRAWN BY | | M. BICKFORD |
| PROJECT NUMBER | | 10404441 |

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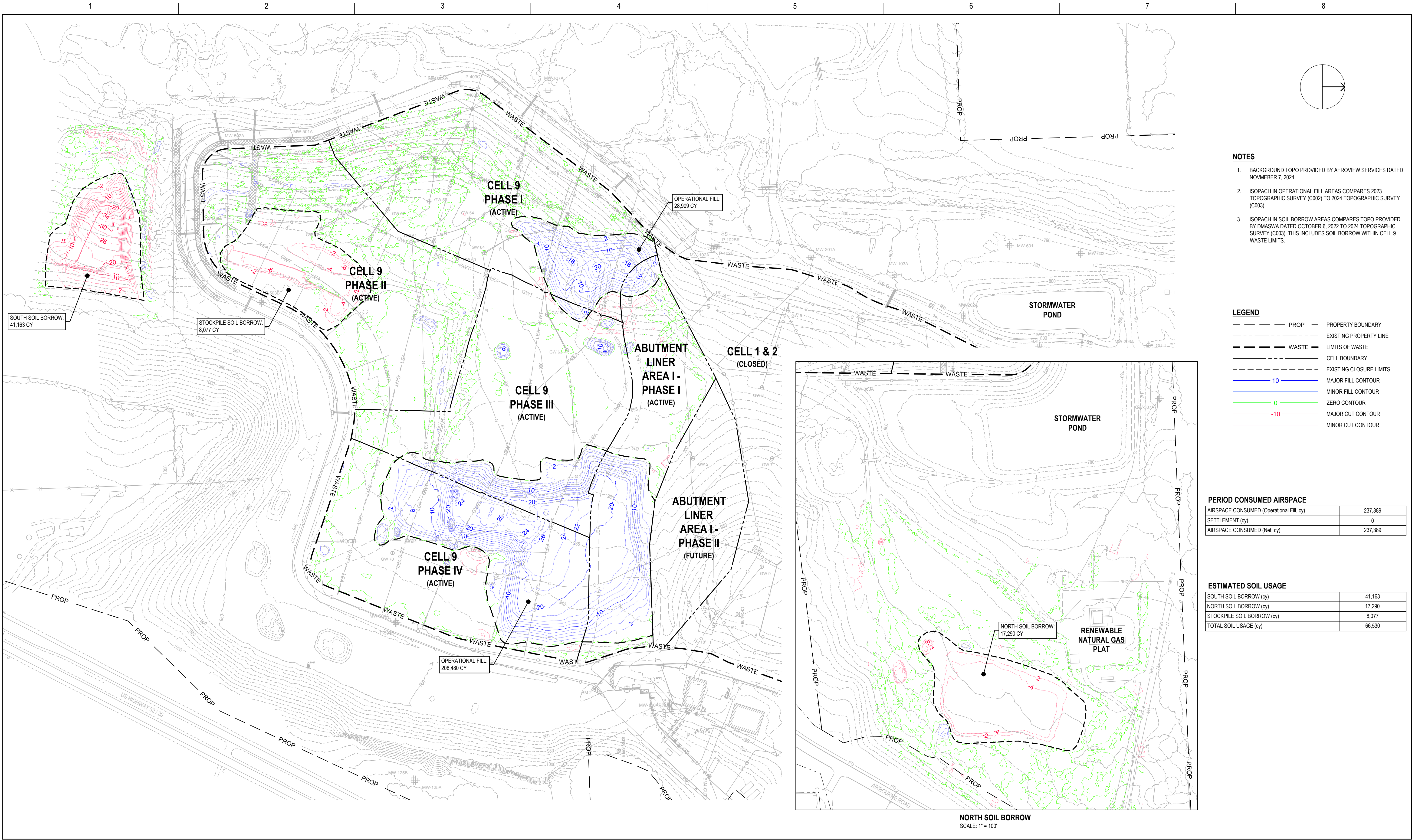
DMASWA SANITARY LANDFILL
ANNUAL AIRSPACE ANALYSIS

2024 TOPO SURVEY



FILENAME | C003.dwg
SCALE | 1" = 200'

SHEET
C003

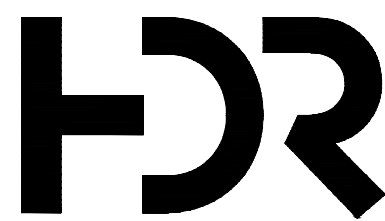


- NOTES**
- BACKGROUND TOPO PROVIDED BY AEROVIEW SERVICES DATED NOVEMBER 7, 2024.
 - ISOPACH IN OPERATIONAL FILL AREAS COMPARES 2023 TOPOGRAPHIC SURVEY (C002) TO 2024 TOPOGRAPHIC SURVEY (C003).
 - ISOPACH IN SOIL BORROW AREAS COMPARES TOPO PROVIDED BY DMASWA DATED OCTOBER 6, 2022 TO 2024 TOPOGRAPHIC SURVEY (C003). THIS INCLUDES SOIL BORROW WITHIN CELL 9 WASTE LIMITS.

- LEGEND**
- PROP — PROPERTY BOUNDARY
 - — EXISTING PROPERTY LINE
 - WASTE — LIMITS OF WASTE
 - CELL BOUNDARY
 - EXISTING CLOSURE LIMITS
 - 10 — MAJOR FILL CONTOUR
 - MINOR FILL CONTOUR
 - 0 — ZERO CONTOUR
 - 10 — MAJOR CUT CONTOUR
 - MINOR CUT CONTOUR

| PERIOD CONSUMED AIRSPACE | |
|--|---------|
| AIRSPACE CONSUMED (Operational Fill, cy) | 237,389 |
| SETTLEMENT (cy) | 0 |
| AIRSPACE CONSUMED (Net, cy) | 237,389 |

| ESTIMATED SOIL USAGE | |
|----------------------------|--------|
| SOUTH SOIL BORROW (cy) | 41,163 |
| NORTH SOIL BORROW (cy) | 17,290 |
| STOCKPILE SOIL BORROW (cy) | 8,077 |
| TOTAL SOIL USAGE (cy) | 66,530 |



| ISSUE | DATE | DESCRIPTION |
|-------|------------|-----------------------|
| 0 | 01-31-2025 | ISSUED FOR CLIENT USE |

| | |
|-----------------|--------------|
| PROJECT MANAGER | W. NICHOLSON |
| CIVIL | W. NICHOLSON |
| DRAWN BY | M. BICKFORD |
| PROJECT NUMBER | 10404441 |

FOR INFORMATIONAL
PURPOSES ONLY
NOT FOR CONSTRUCTION



DMASWA SANITARY LANDFILL
ANNUAL AIRSPACE ANALYSIS



CELL 9 PERIOD
CONSUMED AIRSPACE

FILENAME | C004.dwg
SCALE | 1" = 150'

SHEET
C004

