Amended
CCR Landfill Closure Plan

Limestone Electric Generating Station
Jewett, Texas

February 2020
Rev. September 2024
Rev. April 2025, June 2025, and August 2025

Prepared For

NRG Texas Power LLC

CERTIFICATION

Amended CCR Landfill Closure Plan

Limestone Electric Generating Station

I, the undersigned Texas Professional Engineer, hereby certify that I am familiar with the technical requirements of Title 40 Code of Federal Regulations Part 257 Subpart D (§257). I certify that it is my professional opinion that this document meets the requirements for a written closure plan prepared pursuant to 40 CFR 257.102. I also certify that this document was prepared by me and that I am a registered professional engineer under the laws of the State of Texas.

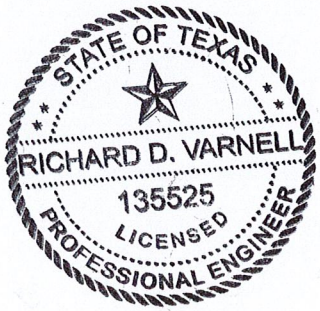
For the purpose of this document, "certify" and "certification" shall be interpreted and construed to be a "statement of professional opinion". The certification is understood and intended to be an expression of my professional opinion as a Texas Licensed Professional Engineer, based upon knowledge, information, and belief. The statement(s) of professional opinion are not and shall not be interpreted or construed to be a guarantee or a warranty of the analysis herein.

Richard D. Varnell
Printed Name of Professional Engineer

135525
Texas License Number
Firm No. 3775, TRC Environmental, Inc.

Richard Varnell
Signature of Professional Engineer

9/4/2025
Date



Firm #3775

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E – HELP Model Memo and Output

1. INTRODUCTION & PURPOSE

Federal CCR Rule Reference: 40 CFR 257.102(b)

Pursuant to 40 CFR 257.102(b), this document serves as the written closure plan for the existing coal combustion residual (CCR) landfill, Unit 004 Landfill, at NRG Texas Power LLC's (NRG) Limestone Electric Generating Station. NRG intends to close the landfill in compliance with the requirements of 40 CFR 257.102(d), by leaving the CCR in place and installing a final cover system.

2. CLOSURE PLAN NARRATIVE DESCRIPTION

Federal CCR Rule Reference: 40 CFR 257.102(b)(1)(i) and 257.102(d)(1)

As disposal areas within the landfill reach capacity, the stored CCR will be graded to designed contours, and a protective final cover system will be incrementally installed to minimize infiltration and prevent storm water contact with the CCR. Materials for the final cover system are placed and compacted so as to limit erosion, settling, subsidence, and future maintenance, and to maintain positive drainage. As portions of the final cover system are installed, soil properties, compaction, permeability, and thickness testing are performed to confirm compliance with the Amended Closure Plan and federal and state regulations in effect at the time. Eventually, the entire landfill will be encapsulated with a final cover system as described in Section 3 of this Amended Closure Plan.

At the time this Amended Closure Plan was prepared, NRG had installed the final cover system over areas that had reached their design capacities in the western portion of the landfill. Soil properties, compaction, and thickness testing of the cover material were performed during installation. Most of the western portion of the landfill ceased accepting CCR and the final cover system had been installed prior to the effective date of the CCR Rule on October 19, 2015.

3. FINAL COVER SYSTEM DESCRIPTION

Federal CCR Rule Reference: 40 CFR 257.102(b)(1)(iii) and 257.102(d)(1)

Pursuant to the closure performance standards provided in 40 CFR 257.102(d)(1), the final cover system for Unit 004 Landfill will:

1. Ensure the design of the final cover system accommodates settling and subsidence to protect the integrity of the final cover system.
2. Minimize the post-closure infiltration of liquid into the CCR.
3. Minimize the risk of release of CCR or contaminated run-off to the ground or surface waters, or to the atmosphere.
4. Preclude the probability of future impoundment of water, sediment, or slurry.
5. Provide major slope stability to prevent sloughing of the final cover system during the post-closure care period.
6. Minimize future maintenance.

7. Allow closure activities to be completed as quickly as practical consistent with recognized and good engineering practices.

Specifications, drawings, and related documents for the final cover system are provided in Attachments A through E.

3.1 ESTABLISH GRADE AND SUPPORT FOR FINAL COVER SYSTEM

Federal CCR Rule Reference: 257.102(d)(1)(ii), 257.102(d)(1)(iii) & 257.102(d)(3)(i)(D)

Per the CCR Rule, the upper surface of the stored CCR, or possibly general fill if sufficient quantities of CCR are not available, will be graded to form a mounded profile. The top of the mound will be graded from a high point or ridge with 3 to 5 percent slope outward. At the crest of the side slopes, a perimeter drainage swale will be constructed to intercept storm water and minimize flow from the upper area to the side slopes. These drainage swales will be directed to armored or paved drainage ditches that will channelize flow down the side slope and into a second ditch system that encircles the base of the landfill. The slopes have also been designed to accommodate settling and subsidence while maintaining this positive drainage strategy.

3.2 INFILTRATION LAYER

Federal CCR Rule Reference: 257.102(d)(1)(i), 257.102(d)(3)(i)(A), & 257.102(d)(3)(i)(B)

Per 257.102(d)(i)(A) and (B) of the CCR Rule, an infiltration layer consisting of compacted low permeability clay material, will be placed on top of the graded CCR or general fill to minimize infiltration of liquids into the closed CCR unit. This layer will be tied into the existing cover in the same manner as provided in the specification for preparing the landfill material in Section 5.3 of the specification. Per the CCR Rule, the infiltration layer will consist of a minimum thickness of 18 inches of compacted clay material. The clay infiltration layer will have a permeability no greater than 1×10^{-7} centimeters per second (cm/sec) to match the permeability of the in-place bottom liner system. The performance of this infiltration layer has been modeled using the United States Environmental Protection Agency (USEPA) Hydrologic Evaluation of Landfill Performance (HELP) Model 4.0. As discussed in Section 2, the soil properties, compaction, permeability, and thickness testing of the final cover system are performed to confirm compliance with the Amended Closure Plan and federal and state regulations in effect at the time. This may include nuclear density testing to confirm soil compaction, laboratory testing to confirm soil properties and hydraulic conductivity, and the collection and comparison of survey data to confirm the thickness of the infiltration layer.

3.3 EROSION LAYER

Federal CCR Rule Reference: 257.102(d)(3)(i)(C)

Per 257.102(d)(i)(C) of the CCR Rule, an erosion layer, consisting of topsoil capable of sustaining native plant growth, will be provided above the infiltration layer to minimize erosion of the final cover system. Per the CCR Rule, the erosion layer will consist of a minimum of 6 inches of topsoil. The entire surface of the final cover system for the closed landfill will be seeded with native vegetation, and regular maintenance of the seeding will take place until a vegetative cover is established and self-sustaining. The storm water run-off management strategy described in Section 3.1 further minimizes erosion of the final cover system.

4. ESTIMATED MAXIMUM INVENTORY OF CCR

Federal CCR Rule Reference: 40 CFR 257.102(b)(1)(iv)

As of December 2023, approximately 30.96 million cubic yards of CCR had been disposed within the landfill. It is estimated that the landfill may store approximately 50 million cubic yards of CCR prior to the landfill reaching design capacity.

5. ESTIMATED COVER SURFACE AREA

Federal CCR Rule Reference: 40 CFR 257.102(b)(1)(v)

The final cover system is estimated to encapsulate an area of approximately 425 acres. Approximately 195 acres of the final cover system was installed as of December 2019. NRG will continue to incrementally cover areas of the landfill as these areas reach capacity. It is estimated that the largest surface area that may require cover at any point in time in the remaining life of the landfill is approximately 100 acres.

6. CLOSURE SCHEDULE

Federal CCR Rule Reference: 40 CFR 257.102(b)(1)(vi)

Table 1 identifies major milestones necessary to close the landfill with an estimated duration and an estimated year of completion for each milestone. NRG estimates that all closure activities for the CCR landfill will be complete by the year 2050.

Table 1: Planning Level Schedule for Closure of Existing CCR Landfill

Task Description	Estimated Duration	Estimated Completion Year
Place Amended Closure Plan into the Facility's Operating Record (FOR).	1 Day	2024
Send Notification of the Availability of Amended Closure Plan to the Texas Commission of Environmental Quality (TCEQ) and Post the Amended Closure Plan to NRG's CCR Website.	1 Month	2024
Deposit CCR into the Landfill Until Disposal Capacity is Reached.	Ongoing	2050
Final Grading of CCR Material to Designed Slopes and Contours.	Ongoing	2050
Place Final Cover System as Areas Reach Capacity.	Ongoing	2050
Place Notification of Intent to Close into FOR.	1 Month	2050
Certification of Completion of Closure by a Qualified Texas Professional Engineer.	1 Month	2050
Place Notification of Landfill Closure Completion into FOR.	1 Month	2050

Table 1: Planning Level Schedule for Closure of Existing CCR Landfill		
Task Description	**Estimated Duration**	**Estimated Completion Year**
Send Notification of Completion of Closure to the TCEQ & Post Notification of Completion of Closure to NRG's CCR Website.	1 Month	2050
Record a Notation of CCR Landfill Closure on the Deed of the Property.	1 Month	2050
Place Notification of the Deed Notation into Station's Operating Record.	1 Month	2050
Send Notification of the Deed Notation to the TCEQ & Post Notification Recording a Notation on the Deed to NRG's CCR Website.	1 Month	2050

7. AMENDMENTS TO CLOSURE PLAN

Federal CCR Rule Reference: 40 CFR 257.102(b)(3)

NRG will amend this plan prior to a change in the operation of the CCR landfill that would substantially affect the written closure plan in effect or after an unanticipated event necessitates a revision to the written closure plan. If this written closure plan is revised, NRG will retain a qualified professional engineer licensed in the State of Texas to provide written certification that amendments to this plan meet the requirements of 40 CFR 257.102(b). Additionally, any updates made to this plan will be submitted to the TCEQ for review and approval. This includes, but is not limited to, detailed plans, elevations, cross-sections, and cover system details. These updates will be submitted prior to construction of improvements shown in the plans.

8. COMPLETION OF CLOSURE ACTIVITIES

Federal CCR Rule Reference: 40 CFR 257.102(f)(3)

Upon completion of closure, NRG will obtain a certification from a qualified professional engineer licensed in the State of Texas verifying that the Unit 004 landfill has been closed in accordance with the closure plan in effect at the time of closure.

Attachment A
Specifications and CQA Plan

Attachment B
Landfill Cover Design Drawings

Attachment C
Run-On and Run-Off Control System Plan for the CCR Landfill

Attachment D
Current and Final Condition Drawings

Attachment E
HELP Model Memo and Output

STANDARD COMPUTATION

SC-40

WATER BALANCE ANALYSIS

(The Hydrologic Evaluation of Landfill Performance [HELP] MODEL)

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PROJECT/PROPOSAL NAME	PREPARED		CHECKED		PROJECT/PROPOSAL NO.
NRG LIMESTONE LANDFILL EXPANSION	By: AD	Date: 08/21/2025	By: PS	Date: 08/21/2025	652117.0000.0000

WATER BALANCE (HELP MODEL) ANALYSIS

Purpose:

To determine the water budget for closed landfill conditions at the NRG Limestone Landfill located northwest of Jewett, TX 75846**.** This information will be used to determine:

- Liner and cover system efficiency;
- Leachate generation; and
- Maximum head on the liner.

Methodology:

A computer program was used to simulate the performance of the existing liner and cover. The Hydrologic Evaluation of Landfill Performance (HELP V 4.0) model is a quasi-two-dimensional hydrologic model of water movement across, into, through and out of landfills. It estimates water balances for landfills and other land disposal systems. The program models rainfall, runoff, infiltration, and other water pathways to estimate how much water builds up above each landfill liner. The model considers design parameters. It can incorporate data on vegetation, soil types, geosynthetic materials, initial moisture conditions, layer thicknesses, slopes, and drainage spacing and liner placement.

Default climatological data for Jewett, TX 75846 were used for the closed conditions. The default data were used to synthetically generate one (1) year of climatological data for closed conditions at the landfill. Further, all three cover systems reportedly in place at the landfill were modeled. Those include two slightly different cover systems installed prior to 2024 and one installed from 2024 forward.

1) The pre-2024 cover system installed on the slopes of the landfill reportedly consists of the following elements:
    a. Three (3) feet of compacted clay with a maximum hydraulic conductivity of $1x10^{-7}$ centimeters per second (cm/s) was installed on graded coal combustion residuals (CCR) material.
    b. One point five (1.5) feet of vegetated topsoil was installed on the compacted clay stratum.

2) The pre-2024 cover system installed on the top of the landfill reportedly consists of the following elements:

   a. Three (3) feet of compacted clay with a maximum hydraulic conductivity of $1x10^{-7}$ cm/s was installed on graded CCR material.

   b. One (1) foot of vegetated topsoil was installed on the compacted clay stratum.

3) The current cover system installed on the northeast slope of the landfill consists of the following elements:

   a. One point five (1.5) feet of compacted clay with a maximum hydraulic conductivity of $1x10^{-7}$ cm/s was installed on graded CCR material.

   b. Six (6) inches of vegetated topsoil was installed on the compacted clay stratum.

For the purpose of determining the water balance, the model reported values are in inches per unit area per year (i.e., unit rate). The HELP model simulation was performed using an area of 45 acres for the newly closed landfill slope, 65 acres for the existing, closed landfill slope, and 127 acres for the closed landfill top. To determine the average annual volumes, the unit rates are multiplied by the total landfill area in acres and converted to gallons per day.

This calculation package presents the final results of the water balance analysis for closed conditions at the landfill.

Assumptions:

To set up and run the HELP model, the following assumptions were made based on the existing site conditions and the completed design:

Climate/Soil Interactions

- The evaporative zone depth is the topsoil depth for all three modeled surface cover systems (18 inches for pre-2024 slopes, 12 inches for the top of the landfill, and 6 inches for the recently closed slope). In each instance, the models are based on closed conditions, the maximum evaporative depths map detailed in the HELP User Manual and the high amount of clay present in the topsoil used in the cover systems at the Site.

- The maximum leaf index is five for closed conditions, based on current conditions at the landfill and the provided HELP model map (page 42 of *Hydrologic Evaluation of Landfill Performance: HELP 4.0 User Manual*, EPA, January 2020).
- The percent of area from which runoff is possible is 100% for closed conditions.
- Unless otherwise noted, the HELP model default values of material properties (effective saturated hydraulic conductivity, total porosity, field capacity, and wilting point) were used.
- The runoff curve numbers used were calculated by the model and were 81.8 for the newly completed landfill slope, 73.7 for the existing landfill slope, and 67.6 for the existing landfill top. The model calculations used the following inputs:
  - A 100 foot, 4:1 (25%) slope on landfill slopes. This is based on design criteria and 2024-2025 survey data.
  - A 1,000 foot, 3% slope on the top of the landfill. This is based on 2024-2025 survey data.
  - For areas closed prior to 2024, "excellent grass" was selected. This is based on current conditions at the Site.
  - For recently closed areas, "fair grass" was selected for the year 1 model.
- The precipitation, runoff, and evapotranspiration were calculated by the model.
- Other weather related parameters used in the models included:
  - The average wind speed was set at 2.56 miles per hour (MPH). The average humidity for the first, second, third, and fourth quarters was set at 79.24%, 85.15%, 68.4%, and 64.71%, respectively.
  - The start of the growing season was set at day 66 of the year, the end of the growing season was set at day 328 of the year.

Geometry and Other

- For slope conditions, 60 feet of waste was modeled to estimate amount the leachate volume reaching the clay liner underlying the landfill.
- For horizontal (landfill top) conditions, 120 feet of waste was modeled to estimate the amount the leachate volume reaching the clay liner underlying the landfill.

- The waste layer was conservatively assumed to be high density bottom ash. Based on observations of the recently closed slope, the exposed waste in that portion of the landfill consisted of extremely dense (cemented) fly ash.

Closed Conditions

The layers used to model the landfill are as follows:

Existing (Pre-2024) Slopes

LAYER	THICKNESS (inches)	LAYER TYPE	LAYER TEXTURE NO.	LAYER DESCRIPTION	EFFECTIVE SATURATED HYDRAULIC CONDUCTIVITY (cm/s)
1	18	Cover Soil	8	Loam	3.70E-04
2	36	Barrier Soil Liner	16	Clay Cap	1.00E-07
3	720	Waste	31	High-Density Electric Plant Coal Bottom Ash	4.10E-03
4	24	Barrier Soil Liner	16	Clay Liner	1.00E-07

Existing (Pre-2024) Landfill Top

LAYER	THICKNESS (inches)	LAYER TYPE	LAYER TEXTURE NO.	LAYER DESCRIPTION	EFFECTIVE SATURATED HYDRAULIC CONDUCTIVITY (cm/s)
1	12	Cover Soil	12	Loam	3.70E-04
2	36	Barrier Soil Liner	16	Clay Cap	1.00E-07
3	1440	Waste	31	High-Density Electric Plant Coal Bottom Ash	4.10E-03
4	24	Barrier Soil Liner	16	Clay Liner	1.00E-07

Newly Installed (2024 and Later) Slope

LAYER	THICKNESS (inches)	LAYER TYPE	LAYER TEXTURE NO.	LAYER DESCRIPTION	EFFECTIVE SATURATED HYDRAULIC CONDUCTIVITY (cm/s)
1	6	Cover Soil	8	Loam	3.70E-04
2	18	Barrier Soil Liner	44	Clay Cap	1.00E-07
3	720	Waste	31	High-Density Electric Plant Coal Bottom Ash	4.10E-03
4	24	Barrier Soil Liner	43	Clay Liner	1.00E-07

Results:

The results of the HELP model simulations are summarized in Tables 1 & 2. The detailed outputs are attached in Appendices 1, 2, and 3.

Table 1
Average Annual Totals

COVER SYSTEM MODELED	Pre-2024 Slope	Pre-2024 Top of Landfill	2024 and Later Slope
SIMULATION NUMBER & APPENDIX	1	2	3
CONDITION MODELED	Closed	Closed	Closed
YEARS EVALUATED	1	1	1
PRECIPITATION (inches)	38.67	38.67	39.69
RUNOFF (inches)	3.801	5.631	6.174
EVAPOTRANSPIRATION (inches)	34.010	32.206	32.511
PERCOLATION/LEAKAGE THROUGH LAYER 2 (inches)	0.869221	0.840779	1.001354
AVERAGE HEAD ON TOP OF LAYER 2 (inches)	6.1191	4.3822	1.8879
PERCOLATION/LEAKAGE THROUGH LAYER 4 (inches)	0.002259	0.002170	0.001495
AVERAGE HEAD ON TOP OF LAYER 4 (inches)	0.0000	0.0000	0.0000
CHANGE IN WATER STORAGE (inches)	0.8541	0.8279	1.0003

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Table 2
Peak Annual Totals

COVER SYSTEM MODELED	Pre-2024 Slope	Pre-2024 Top of Landfill	2024 and Later Slope
SIMULATION NUMBER & APPENDIX	1	2	3
CONDITION MODELED	Closed	Closed	Closed
YEARS EVALUATED	1	1	1
PEAK PRECIPITATION (inches)	2.44	2.44	1.68
PEAK RUNOFF (inches)	0.888	0.819	1.042
EVAPOTRANSPIRATION (inches)	NA	NA	NA
PEAK PERCOLATION/LEAKAGE THROUGH LAYER 2 (inches)	0.005102	0.004535	0.004522
PEAK HEAD ON TOP OF LAYER 2 (inches)	18.0000	12.0000	5.9299
PEAK PERCOLATION/LEAKAGE THROUGH LAYER 4 (inches)	0.000037	0.000034	0.000035
PEAK HEAD ON TOP OF LAYER 4 (inches)	0.0000	0.0000	0.0000
CHANGE IN WATER STORAGE (inches)	NA	NA	NA

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References:

"Hydrologic Evaluation of Landfill Performance (HELP) Model." *EPA*, Environmental Protection Agency 2024 (https://www.epa.gov/land-research/hydrolic-evaluation-landfill-performance-help-model).

Tolaymat, T., and Krause, M. 2020. The Hydrologic Evaluation of Landfill Performance (HELP) 4.0 User Manual: EPA/600/B-20/219, U.S. Environmental Protection Agency Office of Research and Development, Homeland Security Research Program.

U.S. Department of Agriculture: Natural Resources Conservation Service (USDA). 1986. Technical Release 55 (TR-55): Urban Hydrology for Small Watersheds.

U.S. Department of Agriculture: Natural Resources Conservation Service (USDA). 2007. Part 630 Hydrology National Engineering Handbook: Chapter 7. Hydrologic Soil Groups.

HELP Model Outputs

APPENDIX 1
HELP MODEL OUTPUT
COVER SYSTEM: PRE-2024 SLOPE

HYDROLOGIC EVALUATION OF LANDFILL PERFORMANCE
HELP MODEL VERSION 4.0 BETA (2018)
DEVELOPED BY USEPA NATIONAL RISK MANAGEMENT RESEARCH LABORATORY

Title: NRG Limestone **Simulated On:** 9/2/2025 17:30

Layer 1

Type 1 - Vertical Percolation Layer (Cover Soil)
L - Loam
Material Texture Number 8

Thickness	=	18	inches
Porosity	=	0.463	vol/vol
Field Capacity	=	0.232	vol/vol
Wilting Point	=	0.116	vol/vol
Initial Soil Water Content	=	0.3528	vol/vol
Effective Sat. Hyd. Conductivity	=	3.70E-04	cm/sec

Layer 2

Type 3 - Barrier Soil Liner
Liner Soil (High)
Material Texture Number 16

Thickness	=	36	inches
Porosity	=	0.427	vol/vol
Field Capacity	=	0.418	vol/vol
Wilting Point	=	0.367	vol/vol
Initial Soil Water Content	=	0.427	vol/vol
Effective Sat. Hyd. Conductivity	=	1.00E-07	cm/sec

Layer 3

Type 1 - Vertical Percolation Layer (Waste)
High-Density Electric Plant Coal Bottom Ash
Material Texture Number 31

Thickness	=	720	inches
Porosity	=	0.578	vol/vol
Field Capacity	=	0.076	vol/vol
Wilting Point	=	0.025	vol/vol
Initial Soil Water Content	=	0.0771	vol/vol
Effective Sat. Hyd. Conductivity	=	4.10E-03	cm/sec

Layer 4

Type 3 - Barrier Soil Liner
Liner Soil (High)
Material Texture Number 16

Thickness	=	24	inches
Porosity	=	0.427	vol/vol
Field Capacity	=	0.418	vol/vol
Wilting Point	=	0.367	vol/vol
Initial Soil Water Content	=	0.427	vol/vol
Effective Sat. Hyd. Conductivity	=	1.00E-07	cm/sec

Note: Initial moisture content of the layers and snow water were computed as nearly steady-state values by HELP.

General Design and Evaporative Zone Data

SCS Runoff Curve Number	=	73.7	
Fraction of Area Allowing Runoff	=	100	%
Area projected on a horizontal plane	=	65	acres
Evaporative Zone Depth	=	18	inches
Initial Water in Evaporative Zone	=	6.35	inches
Upper Limit of Evaporative Storage	=	8.334	inches
Lower Limit of Evaporative Storage	=	2.088	inches
Initial Snow Water	=	0	inches
Initial Water in Layer Materials	=	87.505	inches
Total Initial Water	=	87.505	inches
Total Subsurface Inflow	=	0	inches/year

Note: SCS Runoff Curve Number was calculated by HELP.

Evapotranspiration and Weather Data

Station Latitude	=	31.48	Degrees
Maximum Leaf Area Index	=	5	
Start of Growing Season (Julian Date)	=	66	days
End of Growing Season (Julian Date)	=	328	days
Average Wind Speed	=	2.56	mph
Average 1st Quarter Relative Humidity	=	79	%
Average 2nd Quarter Relative Humidity	=	85	%
Average 3rd Quarter Relative Humidity	=	68	%
Average 4th Quarter Relative Humidity	=	65	%

Note: Evapotranspiration data was obtained for , Texas

Normal Mean Monthly Precipitation (inches)

Jan/Jul	Feb/Aug	Mar/Sep	Apr/Oct	May/Nov	Jun/Dec
4.467097	3.078073	5.917627	3.454814	1.470896	7.572619
1.215683	2.239322	2.466161	0.646514	1.705813	4.432564

Note: Precipitation was simulated based on HELP V4 weather simulation for:
Lat/Long: 31.48/-96.23

Normal Mean Monthly Temperature (Degrees Fahrenheit)

Jan/Jul	Feb/Aug	Mar/Sep	Apr/Oct	May/Nov	Jun/Dec
51.5	53.9	65.9	78.4	62.4	90.5
96.6	97.6	73.6	70.1	53.1	48.3

Note: Temperature was simulated based on HELP V4 weather simulation for:
Lat/Long: 31.48/-96.23
Solar radiation was simulated based on HELP V4 weather simulation for:
Lat/Long: 31.48/-96.23

Daily Output for Year 1

Column key: Head #1: drainage from Layer 2 Head #2: drainage from Layer 4

Title: NRG Limestone

Simulated On: 9/2/2025 17:30

Leak #1: leakage thru Layer 2 Leak #2: leakage thru Layer 4

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.04	0.000	0.026	0.3535	8.0341	0.0000	4.16E-03	0.0000	0.0000	3.25E-05
2			0.00	0.000	0.034	0.3513	8.4293	0.0000	4.20E-03	0.0000	0.0000	3.25E-05
3			0.28	0.000	0.026	0.3654	8.7022	0.0000	4.22E-03	0.0000	0.0000	3.25E-05
4			0.00	0.000	0.020	0.3640	9.0696	0.0000	4.26E-03	0.0000	0.0000	3.25E-05
5			0.00	0.000	0.028	0.3622	9.8610	0.0000	4.33E-03	0.0000	0.0000	3.25E-05
6			0.35	0.000	0.104	0.3756	10.0224	0.0000	4.35E-03	0.0000	0.0000	3.25E-05
7			0.55	0.000	0.058	0.4026	10.8399	0.0000	4.43E-03	0.0000	0.0000	3.25E-05
8			0.00	0.000	0.060	0.3990	13.0676	0.0000	4.64E-03	0.0000	0.0000	3.25E-05
9			0.00	0.000	0.068	0.3949	12.9600	0.0000	4.63E-03	0.0000	0.0000	3.25E-05
10			0.00	0.000	0.062	0.3913	12.7748	0.0000	4.61E-03	0.0000	0.0000	3.25E-05
11			0.00	0.000	0.053	0.3881	12.6081	0.0000	4.59E-03	0.0000	0.0000	3.25E-05
12	*		0.00	0.000	0.015	0.3870	12.4913	0.0000	4.58E-03	0.0000	0.0000	3.25E-05
13			0.00	0.000	0.028	0.3853	12.4381	0.0000	4.58E-03	0.0000	0.0000	3.25E-05
14			0.06	0.000	0.045	0.3860	12.3687	0.0000	4.57E-03	0.0000	0.0000	3.25E-05
15			0.00	0.000	0.051	0.3829	12.2511	0.0000	4.56E-03	0.0000	0.0000	3.25E-05
16	*		0.04	0.000	0.016	0.3837	12.1735	0.0000	4.55E-03	0.0000	0.0000	3.25E-05
17	*		0.00	0.000	0.000	0.3835	12.1538	0.0000	4.55E-03	0.0000	0.0000	3.25E-05
18	*		0.59	0.000	0.004	0.3843	12.1341	0.0000	4.55E-03	0.0000	0.0000	3.25E-05
19	*		0.00	0.000	0.010	0.3852	12.1144	0.0000	4.55E-03	0.0000	0.0000	3.25E-05
20	*		0.00	0.000	0.011	0.3860	12.0947	0.0000	4.54E-03	0.0000	0.0000	3.25E-05
21			0.00	0.000	0.000	0.4138	12.4218	0.0000	4.58E-03	0.0000	0.0000	3.25E-05
22			0.53	0.000	0.089	0.4380	14.3530	0.0000	4.76E-03	0.0000	0.0000	3.25E-05
23			0.00	0.000	0.029	0.4361	15.9918	0.0000	4.91E-03	0.0000	0.0000	3.25E-05
24			0.00	0.000	0.046	0.4332	15.8336	0.0000	4.90E-03	0.0000	0.0000	3.25E-05
25			0.00	0.000	0.019	0.4319	15.6699	0.0000	4.88E-03	0.0000	0.0000	3.25E-05
26			0.00	0.000	0.020	0.4305	15.5718	0.0000	4.87E-03	0.0000	0.0000	3.25E-05
27			0.00	0.000	0.036	0.4283	15.4484	0.0000	4.86E-03	0.0000	0.0000	3.25E-05

28		0.00	0.000	0.103	0.4223	15.1790	0.0000	4.84E-03	0.0000	0.0000	3.25E-05
29		1.17	0.273	0.160	0.4630	16.1391	0.0000	4.93E-03	0.0000	0.0000	3.25E-05
30		0.74	0.655	0.086	0.4629	17.9972	0.0000	5.10E-03	0.0000	0.0000	3.25E-05
31		0.11	0.102	0.095	0.4579	17.8456	0.0000	5.09E-03	0.0000	0.0000	3.25E-05
32		0.00	0.000	0.111	0.4515	17.4205	0.0000	5.05E-03	0.0000	0.0000	3.25E-05
33		0.00	0.000	0.052	0.4483	17.0451	0.0000	5.01E-03	0.0000	0.0000	3.25E-05
34		0.09	0.000	0.088	0.4480	16.8358	0.0000	4.99E-03	0.0000	0.0000	3.25E-05
35		0.13	0.000	0.099	0.4497	16.8929	0.0000	5.00E-03	0.0000	0.0000	3.25E-05
36		0.00	0.000	0.060	0.4461	16.8475	0.0000	4.99E-03	0.0000	0.0000	3.25E-05
37	*	0.00	0.000	0.000	0.4458	16.6876	0.0000	4.98E-03	0.0000	0.0000	3.25E-05
38	*	0.00	0.000	0.045	0.4430	16.5989	0.0000	4.97E-03	0.0000	0.0000	3.25E-05
39	*	0.00	0.000	0.017	0.4417	16.4393	0.0000	4.95E-03	0.0000	0.0000	3.25E-05
40	*	0.01	0.000	0.050	0.4394	16.3189	0.0000	4.94E-03	0.0000	0.0000	3.25E-05
41		0.00	0.000	0.099	0.4337	16.0768	0.0000	4.92E-03	0.0000	0.0000	3.25E-05
42		0.00	0.000	0.112	0.4273	15.6729	0.0000	4.88E-03	0.0000	0.0000	3.25E-05
43		0.00	0.000	0.078	0.4226	15.2586	0.0000	4.84E-03	0.0000	0.0000	3.25E-05
44		0.00	0.000	0.271	0.4073	14.7490	0.0000	4.80E-03	0.0000	0.0000	3.25E-05
45		0.32	0.000	0.123	0.4179	14.1788	0.0000	4.74E-03	0.0000	0.0000	3.25E-05
46		0.43	0.000	0.076	0.4373	14.5287	0.0000	4.77E-03	0.0000	0.0000	3.25E-05
47		0.00	0.000	0.070	0.4331	15.8581	0.0000	4.90E-03	0.0000	0.0000	3.25E-05
48	*	0.00	0.000	0.000	0.4328	15.6796	0.0000	4.88E-03	0.0000	0.0000	3.25E-05
49	*	0.00	0.000	0.019	0.4315	15.6305	0.0000	4.88E-03	0.0000	0.0000	3.25E-05
50	*	0.00	0.000	0.052	0.4284	15.4862	0.0000	4.86E-03	0.0000	0.0000	3.25E-05
51	*	1.20	0.000	0.012	0.4292	15.3392	0.0000	4.85E-03	0.0000	0.0000	3.25E-05
52		0.85	0.211	0.000	0.4630	16.5989	0.0000	4.97E-03	0.0000	0.0000	3.25E-05
53		0.00	0.784	0.000	0.4630	18.0000	0.0000	5.10E-03	0.0000	0.0000	3.25E-05
54		0.00	0.310	0.089	0.4627	17.9917	0.0000	5.10E-03	0.0000	0.0000	3.25E-05
55		0.00	0.000	0.041	0.4602	17.9032	0.0000	5.09E-03	0.0000	0.0000	3.25E-05
56		0.00	0.000	0.090	0.4549	17.6248	0.0000	5.07E-03	0.0000	0.0000	3.25E-05
57		0.05	0.000	0.058	0.4542	17.3222	0.0000	5.04E-03	0.0000	0.0000	3.25E-05
58		0.00	0.000	0.174	0.4442	17.0245	0.0000	5.01E-03	0.0000	0.0000	3.25E-05
59		0.00	0.000	0.173	0.4344	16.3202	0.0000	4.94E-03	0.0000	0.0000	2.41E-06
60		0.00	0.000	0.049	0.4314	15.7983	0.0000	4.89E-03	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.090	0.4261	15.5221	0.0000	4.87E-03	0.0000	0.0000	0.00E+00
62	*	0.00	0.000	0.000	0.4258	15.2775	0.0000	4.85E-03	0.0000	0.0000	0.00E+00

63	*	0.00	0.000	0.000	0.4256	15.2565	0.0000	4.84E-03	0.0000	0.0000	0.00E+00
64	*	0.09	0.000	0.046	0.4264	15.2355	0.0000	4.84E-03	0.0000	0.0000	0.00E+00
65		0.29	0.000	0.000	0.4434	15.4987	0.0000	4.87E-03	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.110	0.4371	16.2729	0.0000	4.94E-03	0.0000	0.0000	0.00E+00
67		0.02	0.000	0.137	0.4303	15.8153	0.0000	4.90E-03	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.163	0.4210	15.2366	0.0000	4.84E-03	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.153	0.4122	14.7238	0.0000	4.79E-03	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.307	0.3948	14.1717	0.0000	4.74E-03	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.362	0.3745	13.2745	0.0000	4.66E-03	0.0000	0.0000	0.00E+00
72		0.81	0.000	0.077	0.4147	12.5484	0.0000	4.59E-03	0.0000	0.0000	0.00E+00
73		0.00	0.000	0.308	0.3974	13.8690	0.0000	4.71E-03	0.0000	0.0000	0.00E+00
74		0.00	0.000	0.225	0.3846	13.2061	0.0000	4.65E-03	0.0000	0.0000	0.00E+00
75		0.00	0.000	0.191	0.3738	12.6512	0.0000	4.60E-03	0.0000	0.0000	0.00E+00
76		0.00	0.000	0.080	0.3691	12.2559	0.0000	4.56E-03	0.0000	0.0000	0.00E+00
77		0.00	0.000	0.061	0.3654	12.0415	0.0000	4.54E-03	0.0000	0.0000	0.00E+00
78		0.00	0.000	0.052	0.3623	11.9116	0.0000	4.53E-03	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.047	0.3594	11.8209	0.0000	4.52E-03	0.0000	0.0000	0.00E+00
80		0.89	0.000	0.048	0.4057	11.7365	0.0000	4.51E-03	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.182	0.3954	13.2882	0.0000	4.66E-03	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.261	0.3806	12.8363	0.0000	4.61E-03	0.0000	0.0000	0.00E+00
83		2.44	0.888	0.067	0.4630	14.7521	0.0000	4.80E-03	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.152	0.4543	17.7446	0.0000	5.08E-03	0.0000	0.0000	0.00E+00
85		0.42	0.208	0.052	0.4630	17.7301	0.0000	5.08E-03	0.0000	0.0000	0.00E+00
86		0.10	0.091	0.048	0.4603	17.9201	0.0000	5.09E-03	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.177	0.4501	17.4948	0.0000	5.05E-03	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.120	0.4432	16.8432	0.0000	4.99E-03	0.0000	0.0000	0.00E+00
89		0.42	0.004	0.153	0.4574	16.7853	0.0000	4.99E-03	0.0000	0.0000	0.00E+00
90		0.45	0.269	0.073	0.4630	17.8401	0.0000	5.09E-03	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.130	0.4555	17.7813	0.0000	5.08E-03	0.0000	0.0000	0.00E+00
92	*	0.00	0.000	0.054	0.4523	17.3288	0.0000	5.04E-03	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.032	0.4502	17.1267	0.0000	5.02E-03	0.0000	0.0000	0.00E+00
94		0.04	0.000	0.035	0.4501	16.9915	0.0000	5.01E-03	0.0000	0.0000	0.00E+00
95	*	0.00	0.000	0.096	0.4445	16.8308	0.0000	4.99E-03	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.110	0.4381	16.4134	0.0000	4.95E-03	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.154	0.4293	15.8896	0.0000	4.90E-03	0.0000	0.0000	0.00E+00

98		0.00	0.000	0.154	0.4204	15.2505	0.0000	4.84E-03	0.0000	0.0000	0.00E+00
99		0.00	0.000	0.143	0.4122	14.7458	0.0000	4.79E-03	0.0000	0.0000	0.00E+00
100		0.00	0.000	0.112	0.4057	14.3937	0.0000	4.76E-03	0.0000	0.0000	0.00E+00
101		0.00	0.000	0.195	0.3946	14.0121	0.0000	4.73E-03	0.0000	0.0000	0.00E+00
102		0.83	0.000	0.077	0.4363	13.8686	0.0000	4.71E-03	0.0000	0.0000	0.00E+00
103		0.00	0.000	0.068	0.4322	16.0131	0.0000	4.91E-03	0.0000	0.0000	0.00E+00
104		0.00	0.000	0.138	0.4243	15.6069	0.0000	4.88E-03	0.0000	0.0000	0.00E+00
105		0.20	0.000	0.085	0.4303	15.0540	0.0000	4.82E-03	0.0000	0.0000	0.00E+00
106		0.00	0.000	0.418	0.4069	14.7675	0.0000	4.80E-03	0.0000	0.0000	0.00E+00
107		0.00	0.000	0.504	0.3786	13.6752	0.0000	4.69E-03	0.0000	0.0000	0.00E+00
108		0.00	0.000	0.089	0.3734	12.7383	0.0000	4.61E-03	0.0000	0.0000	0.00E+00
109		0.11	0.000	0.100	0.3735	12.3711	0.0000	4.57E-03	0.0000	0.0000	0.00E+00
110		0.18	0.000	0.128	0.3758	12.0053	0.0000	4.54E-03	0.0000	0.0000	0.00E+00
111		0.02	0.000	0.067	0.3730	11.8165	0.0000	4.52E-03	0.0000	0.0000	0.00E+00
112		0.00	0.000	0.107	0.3668	11.7083	0.0000	4.51E-03	0.0000	0.0000	0.00E+00
113		0.00	0.000	0.087	0.3617	11.5889	0.0000	4.50E-03	0.0000	0.0000	0.00E+00
114		0.32	0.000	0.052	0.3766	11.4859	0.0000	4.49E-03	0.0000	0.0000	0.00E+00
115		0.29	0.000	0.286	0.3763	11.2734	0.0000	4.47E-03	0.0000	0.0000	0.00E+00
116		0.48	0.000	0.167	0.3936	11.0421	0.0000	4.44E-03	0.0000	0.0000	0.00E+00
117		0.05	0.000	0.381	0.3748	11.3413	0.0000	4.47E-03	0.0000	0.0000	0.00E+00
118		0.94	0.000	0.253	0.4128	11.4366	0.0000	4.48E-03	0.0000	0.0000	0.00E+00
119		0.00	0.000	0.199	0.4015	13.7126	0.0000	4.70E-03	0.0000	0.0000	0.00E+00
120		0.00	0.000	0.077	0.3969	13.3391	0.0000	4.66E-03	0.0000	0.0000	0.00E+00
121		0.00	0.000	0.070	0.3928	13.1314	0.0000	4.64E-03	0.0000	0.0000	0.00E+00
122		0.00	0.000	0.152	0.3841	12.8576	0.0000	4.62E-03	0.0000	0.0000	0.00E+00
123		0.00	0.000	0.055	0.3809	12.5699	0.0000	4.59E-03	0.0000	0.0000	0.00E+00
124		0.00	0.000	0.241	0.3672	12.2753	0.0000	4.56E-03	0.0000	0.0000	0.00E+00
125		0.00	0.000	0.100	0.3614	11.8491	0.0000	4.52E-03	0.0000	0.0000	0.00E+00
126		0.00	0.000	0.084	0.3565	11.6965	0.0000	4.51E-03	0.0000	0.0000	0.00E+00
127		0.00	0.000	0.074	0.3522	11.5631	0.0000	4.49E-03	0.0000	0.0000	0.00E+00
128		0.00	0.000	0.121	0.3452	11.4130	0.0000	4.48E-03	0.0000	0.0000	0.00E+00
129		0.00	0.000	0.110	0.3388	11.2270	0.0000	4.46E-03	0.0000	0.0000	0.00E+00
130	*	0.00	0.000	0.095	0.3333	11.0376	0.0000	4.44E-03	0.0000	0.0000	0.00E+00
131	*	0.00	0.000	0.089	0.3281	10.7536	0.0000	4.42E-03	0.0000	0.0000	0.00E+00
132	*	0.99	0.000	0.029	0.3289	10.4936	0.0000	4.39E-03	0.0000	0.0000	0.00E+00

133		0.00	0.000	0.000	0.3510	10.4745	0.0000	4.39E-03	0.0000	0.0000	0.00E+00
134	*	0.01	0.000	0.036	0.3519	10.4555	0.0000	4.39E-03	0.0000	0.0000	0.00E+00
135		0.21	0.000	0.039	0.3884	10.4441	0.0000	4.39E-03	0.0000	0.0000	0.00E+00
136		0.00	0.000	0.137	0.3805	11.3900	0.0000	4.48E-03	0.0000	0.0000	0.00E+00
137		0.00	0.000	0.154	0.3717	11.5657	0.0000	4.49E-03	0.0000	0.0000	0.00E+00
138		0.00	0.000	0.058	0.3682	11.3897	0.0000	4.48E-03	0.0000	0.0000	0.00E+00
139		0.00	0.000	0.051	0.3652	11.2920	0.0000	4.47E-03	0.0000	0.0000	0.00E+00
140		0.00	0.000	0.228	0.3522	11.1063	0.0000	4.45E-03	0.0000	0.0000	0.00E+00
141		0.00	0.000	0.196	0.3411	10.7806	0.0000	4.42E-03	0.0000	0.0000	0.00E+00
142		0.00	0.000	0.207	0.3294	10.4777	0.0000	4.39E-03	0.0000	0.0000	0.00E+00
143		0.00	0.000	0.121	0.3225	10.1996	0.0000	4.37E-03	0.0000	0.0000	0.00E+00
144		0.00	0.000	0.176	0.3124	9.7693	0.0000	4.32E-03	0.0000	0.0000	0.00E+00
145		0.09	0.000	0.225	0.3046	9.0457	0.0000	4.26E-03	0.0000	0.0000	0.00E+00
146		0.07	0.000	0.063	0.3048	8.8152	0.0000	4.23E-03	0.0000	0.0000	0.00E+00
147		0.04	0.000	0.064	0.3034	8.7551	0.0000	4.23E-03	0.0000	0.0000	0.00E+00
148		0.00	0.000	0.125	0.2962	8.6748	0.0000	4.22E-03	0.0000	0.0000	0.00E+00
149		0.00	0.000	0.097	0.2908	8.6000	0.0000	4.21E-03	0.0000	0.0000	0.00E+00
150		0.06	0.000	0.096	0.2884	8.5422	0.0000	4.21E-03	0.0000	0.0000	0.00E+00
151		0.00	0.000	0.453	0.2630	7.8392	0.0000	4.14E-03	0.0000	0.0000	0.00E+00
152		0.00	0.000	0.370	0.2423	6.2692	0.0000	3.99E-03	0.0000	0.0000	0.00E+00
153		0.50	0.000	0.426	0.2461	5.5010	0.0000	3.92E-03	0.0000	0.0000	0.00E+00
154		0.00	0.000	0.311	0.2288	4.7899	0.0000	3.85E-03	0.0000	0.0000	0.00E+00
155		0.00	0.000	0.133	0.2212	4.4888	0.0000	3.83E-03	0.0000	0.0000	0.00E+00
156		0.00	0.000	0.345	0.2018	4.1168	0.0000	3.79E-03	0.0000	0.0000	0.00E+00
157		0.00	0.000	0.358	0.1817	3.0939	0.0000	3.69E-03	0.0000	0.0000	0.00E+00
158		0.00	0.000	0.337	0.1628	2.2192	0.0000	3.61E-03	0.0000	0.0000	0.00E+00
159		0.00	0.000	0.286	0.1467	1.3000	0.0000	3.52E-03	0.0000	0.0000	0.00E+00
160		0.00	0.000	0.272	0.1315	0.3990	0.0000	1.73E-03	0.0000	0.0000	0.00E+00
161		0.00	0.000	0.108	0.1255	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162		0.00	0.000	0.108	0.1195	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163		0.00	0.000	0.063	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164		0.12	0.000	0.021	0.1215	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165		0.00	0.000	0.065	0.1178	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166		1.20	0.000	0.085	0.1796	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167		1.67	0.005	0.147	0.2638	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.22	0.000	0.074	0.2718	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.19	0.000	0.063	0.2786	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.183	0.2684	0.0568	0.0000	8.56E-04	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.104	0.2624	0.4383	0.0000	3.44E-03	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.249	0.2484	0.8503	0.0000	3.48E-03	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.275	0.2329	1.1910	0.0000	3.51E-03	0.0000	0.0000	0.00E+00
174	0.83	0.000	0.072	0.2746	1.4025	0.0000	3.53E-03	0.0000	0.0000	0.00E+00
175	1.00	0.000	0.197	0.3190	1.5303	0.0000	3.55E-03	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.301	0.3021	4.4328	0.0000	3.82E-03	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.295	0.2855	4.7763	0.0000	3.85E-03	0.0000	0.0000	0.00E+00
178	0.04	0.000	0.344	0.2685	5.0410	0.0000	3.88E-03	0.0000	0.0000	0.00E+00
179	0.57	0.000	0.341	0.2812	5.0964	0.0000	3.88E-03	0.0000	0.0000	0.00E+00
180	1.24	0.000	0.152	0.3415	5.0534	0.0000	3.88E-03	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.317	0.3237	7.2874	0.0000	4.09E-03	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.379	0.3024	7.2911	0.0000	4.09E-03	0.0000	0.0000	0.00E+00
183	0.13	0.000	0.161	0.3006	7.0781	0.0000	4.07E-03	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.327	0.2823	6.8844	0.0000	4.05E-03	0.0000	0.0000	0.00E+00
185	0.01	0.000	0.129	0.2753	6.6519	0.0000	4.03E-03	0.0000	0.0000	0.00E+00
186	0.04	0.000	0.400	0.2552	6.4646	0.0000	4.01E-03	0.0000	0.0000	0.00E+00
187	0.26	0.000	0.393	0.2476	5.9231	0.0000	3.96E-03	0.0000	0.0000	0.00E+00
188	0.06	0.000	0.373	0.2297	5.3901	0.0000	3.91E-03	0.0000	0.0000	0.00E+00
189	0.22	0.000	0.366	0.2216	4.7702	0.0000	3.85E-03	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.376	0.2005	3.9219	0.0000	3.77E-03	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.351	0.1808	3.0839	0.0000	3.69E-03	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.301	0.1638	2.5489	0.0000	3.64E-03	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.260	0.1492	1.6962	0.0000	3.56E-03	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.291	0.1329	0.6011	0.0000	2.61E-03	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.121	0.1261	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.119	0.1195	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.063	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.000	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.05	0.000	0.027	0.1173	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.05	0.000	0.038	0.1182	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.14	0.000	0.031	0.1243	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.095	0.1191	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.040	0.1168	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.011	0.1162	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.003	0.1161	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.001	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.002	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.13	0.000	0.054	0.1200	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.11	0.000	0.051	0.1232	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.01	0.000	0.096	0.1184	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.033	0.1166	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.008	0.1161	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.002	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.000	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.000	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.01	0.000	0.007	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.000	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.03	0.000	0.025	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.19	0.000	0.036	0.1245	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.24	0.000	0.098	0.1324	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.29	0.000	0.166	0.1391	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.30	0.000	0.065	0.1523	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.21	0.000	0.277	0.1488	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.26	0.000	0.325	0.1454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.100	0.1400	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.286	0.1241	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.126	0.1172	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.017	0.1162	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.003	0.1161	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.28	0.000	0.056	0.1285	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.104	0.1227	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.102	0.1171	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.015	0.1163	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.004	0.1161	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.11	0.000	0.048	0.1192	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.08	0.000	0.046	0.1210	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.04	0.000	0.065	0.1196	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.022	0.1184	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.028	0.1168	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.011	0.1161	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.11	0.000	0.057	0.1189	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.07	0.000	0.035	0.1212	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.02	0.000	0.049	0.1197	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.034	0.1180	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.030	0.1163	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.02	0.000	0.024	0.1161	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.002	0.1161	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.001	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.001	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.06	0.000	0.041	0.1172	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.02	0.000	0.021	0.1171	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.011	0.1165	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.007	0.1161	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.002	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.000	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.16	0.000	0.043	0.1225	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.057	0.1194	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.042	0.1171	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.08	0.000	0.044	0.1192	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.008	0.1188	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.018	0.1178	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.03	0.000	0.029	0.1177	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.010	0.1172	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.24	0.000	0.042	0.1280	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.043	0.1256	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.078	0.1213	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.070	0.1174	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.57	0.000	0.095	0.1437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.067	0.1400	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.045	0.1375	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	1.05	0.000	0.059	0.1925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.23	0.000	0.109	0.1994	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.00	0.000	0.135	0.1919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274		0.00	0.000	0.182	0.1818	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275		0.00	0.000	0.153	0.1733	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276		0.00	0.000	0.086	0.1685	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277		0.00	0.000	0.168	0.1592	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278		0.00	0.000	0.115	0.1528	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279		0.00	0.000	0.160	0.1439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280		0.00	0.000	0.205	0.1325	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281		0.29	0.000	0.076	0.1447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282		0.05	0.000	0.068	0.1439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283		0.00	0.000	0.048	0.1414	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.00	0.000	0.102	0.1357	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285		0.00	0.000	0.045	0.1332	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286		0.00	0.000	0.048	0.1306	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.00	0.000	0.105	0.1247	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288		0.04	0.000	0.158	0.1183	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289		0.09	0.000	0.068	0.1195	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290		0.00	0.000	0.009	0.1190	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291		0.00	0.000	0.016	0.1181	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.00	0.000	0.009	0.1176	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293		0.00	0.000	0.010	0.1170	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294		0.00	0.000	0.007	0.1166	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295		0.16	0.000	0.037	0.1236	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.00	0.000	0.014	0.1229	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297		0.00	0.000	0.014	0.1221	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298	*	0.00	0.000	0.017	0.1212	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299		0.00	0.000	0.018	0.1202	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300		0.00	0.000	0.019	0.1191	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301		0.00	0.000	0.018	0.1181	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302		0.00	0.000	0.017	0.1172	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303		0.00	0.000	0.008	0.1167	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304		0.00	0.000	0.005	0.1164	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305		0.00	0.000	0.006	0.1162	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306		0.05	0.000	0.027	0.1172	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307		0.09	0.000	0.032	0.1205	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.009	0.1200	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.009	0.1195	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.011	0.1189	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.08	0.000	0.041	0.1211	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312	*	0.00	0.000	0.011	0.1205	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.009	0.1200	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.34	0.000	0.041	0.1365	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315	*	0.04	0.000	0.042	0.1365	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.013	0.1358	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.012	0.1351	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.012	0.1344	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.013	0.1337	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.012	0.1330	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.013	0.1323	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.012	0.1317	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.012	0.1310	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.00	0.000	0.014	0.1302	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.012	0.1295	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		1.11	0.000	0.038	0.1890	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327	*	0.00	0.000	0.012	0.1883	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.014	0.1875	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329	*	0.00	0.000	0.000	0.1875	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.050	0.1847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331	*	0.00	0.000	0.029	0.1831	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332	*	0.00	0.000	0.000	0.1831	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.032	0.1813	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.043	0.1789	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.03	0.000	0.058	0.1773	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.00	0.000	0.043	0.1749	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.056	0.1718	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.031	0.1700	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339	*	1.30	0.000	0.012	0.1711	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340	*	0.00	0.000	0.015	0.1722	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.000	0.2405	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.057	0.2374	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.06	0.000	0.036	0.2386	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344		0.02	0.000	0.035	0.2379	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345	*	0.00	0.000	0.026	0.2364	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346	*	0.00	0.000	0.028	0.2349	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347	*	0.00	0.000	0.000	0.2349	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348	*	0.00	0.000	0.027	0.2334	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349	*	0.00	0.000	0.000	0.2334	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.033	0.2316	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.16	0.000	0.063	0.2368	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.16	0.000	0.097	0.2405	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.05	0.000	0.075	0.2390	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.050	0.2362	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355		1.14	0.000	0.041	0.2970	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356	*	0.00	0.000	0.028	0.2952	1.6649	0.0000	3.56E-03	0.0000	0.0000	3.74E-05
357	*	0.00	0.000	0.018	0.2940	2.4447	0.0000	3.63E-03	0.0000	0.0000	3.74E-05
358		0.00	0.000	0.058	0.2906	2.6915	0.0000	3.66E-03	0.0000	0.0000	3.74E-05
359		0.00	0.000	0.095	0.2851	3.1446	0.0000	3.70E-03	0.0000	0.0000	3.74E-05
360		0.00	0.000	0.036	0.2829	4.0189	0.0000	3.78E-03	0.0000	0.0000	3.74E-05
361	*	0.00	0.000	0.020	0.2815	4.1280	0.0000	3.79E-03	0.0000	0.0000	3.74E-05
362		0.00	0.000	0.039	0.2792	4.1896	0.0000	3.80E-03	0.0000	0.0000	3.74E-05
363		0.00	0.000	0.035	0.2770	4.2271	0.0000	3.80E-03	0.0000	0.0000	3.74E-05
364		0.00	0.000	0.091	0.2717	4.2499	0.0000	3.80E-03	0.0000	0.0000	3.74E-05
365		1.52	0.000	0.073	0.3521	4.2577	0.0000	3.80E-03	0.0000	0.0000	3.74E-05

* = Frozen (air or soil)

Annual Totals for Year 1			
	inches	cubic feet	percent
Precipitation	38.67	9,123,521.6	100.00
Runoff	3.801	896,825.1	9.83
Evapotranspiration	34.010	8,024,632.5	87.96
Percolation/Leakage through Layer 2	0.869221	205,092.6	2.25
Average Head on Top of Layer 2	6.1191	---	---
Percolation/Leakage through Layer 4	0.002259	533.1	0.01

Average Head on Top of Layer 4	0.0000	---	---
Change in Water Storage	0.8541	201,530.9	2.21
Soil Water at Start of Year	87.5049	##########	226.30
Soil Water at End of Year	88.3590	##########	228.51
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Average Annual Totals Summary

Title: NRG Limestone
Simulated on: 9/2/2025 17:31

	Average Annual Totals for Years 1 - 1*			
	(inches)	[std dev]	(cubic feet)	(percent)
Precipitation	38.67	[0]	9,123,521.6	100.00
Runoff	3.801	[0]	896,825.1	9.83
Evapotranspiration	34.010	[0]	8,024,632.5	87.96
Subprofile1				
Percolation/leakage through Layer 2	0.869221	[0]	205,092.6	2.25
Average Head on Top of Layer 2	6.1191		---	---
Subprofile2				
Percolation/leakage through Layer 4	0.002259	[0]	533.1	0.01
Average Head on Top of Layer 4	0.0000		---	---
Water storage				
Change in water storage	0.8541		201,530.9	2.21

* Note: Average inches are converted to volume based on the user-specified area.

Peak Values Summary

Title: NRG Limestone
Simulated on: 9/2/2025 17:31

	Peak Values for Years 1 - 1*		
	(inches)		(cubic feet)
Precipitation	2.44		576,566.7
Runoff	0.888		209,555.6
Subprofile1			
Percolation/leakage through Layer 2	0.005102		1,203.9
Average head on Layer 2	18.0000		
Subprofile2			
Percolation/leakage through Layer 4	0.000037		8.8338
Average head on Layer 4	0.0000		
Other Parameters			
Snow water	1.2759		301,051.3
Maximum vegetation soil water	0.4630	(vol/vol)	
Minimum vegetation soil water	0.1160	(vol/vol)	

Final Water Storage in Landfill Profile at End of Simulation Period

Title: NRG Limestone
Simulated on: 9/2/2025 17:31
Simulation period: 1 years

	Final Water Storage	
Layer	(inches)	(vol/vol)
1	6.3376	0.3521
2	15.3719	0.4270
3	56.4015	0.0783
4	10.2480	0.4270
Snow water	0.0000	---

APPENDIX 2
HELP MODEL OUTPUT
COVER SYSTEM: PRE-2024 TOP

HYDROLOGIC EVALUATION OF LANDFILL PERFORMANCE
HELP MODEL VERSION 4.0 BETA (2018)
DEVELOPED BY USEPA NATIONAL RISK MANAGEMENT RESEARCH LABORATORY

Title: NRG Limestone **Simulated On:** 9/2/2025 17:36

Layer 1

Type 1 - Vertical Percolation Layer (Cover Soil)
L - Loam
Material Texture Number 8

Thickness	=	12	inches
Porosity	=	0.463	vol/vol
Field Capacity	=	0.232	vol/vol
Wilting Point	=	0.116	vol/vol
Initial Soil Water Content	=	0.4573	vol/vol
Effective Sat. Hyd. Conductivity	=	3.70E-04	cm/sec

Layer 2

Type 3 - Barrier Soil Liner
Liner Soil (High)
Material Texture Number 16

Thickness	=	36	inches
Porosity	=	0.427	vol/vol
Field Capacity	=	0.418	vol/vol
Wilting Point	=	0.367	vol/vol
Initial Soil Water Content	=	0.427	vol/vol
Effective Sat. Hyd. Conductivity	=	1.00E-07	cm/sec

Layer 3

Type 1 - Vertical Percolation Layer (Waste)
High-Density Electric Plant Coal Bottom Ash
Material Texture Number 31

Thickness	=	1440	inches
Porosity	=	0.578	vol/vol
Field Capacity	=	0.076	vol/vol
Wilting Point	=	0.025	vol/vol
Initial Soil Water Content	=	0.0766	vol/vol
Effective Sat. Hyd. Conductivity	=	4.10E-03	cm/sec

Layer 4

Type 3 - Barrier Soil Liner
Liner Soil (High)
Material Texture Number 16

Thickness	=	24	inches
Porosity	=	0.427	vol/vol
Field Capacity	=	0.418	vol/vol
Wilting Point	=	0.367	vol/vol
Initial Soil Water Content	=	0.427	vol/vol
Effective Sat. Hyd. Conductivity	=	1.00E-07	cm/sec

Note: Initial moisture content of the layers and snow water were computed as nearly steady-state values by HELP.

General Design and Evaporative Zone Data

SCS Runoff Curve Number	=	67.6	
Fraction of Area Allowing Runoff	=	100	%
Area projected on a horizontal plane	=	127	acres
Evaporative Zone Depth	=	12	inches
Initial Water in Evaporative Zone	=	5.488	inches
Upper Limit of Evaporative Storage	=	5.556	inches
Lower Limit of Evaporative Storage	=	1.392	inches
Initial Snow Water	=	0	inches
Initial Water in Layer Materials	=	141.349	inches
Total Initial Water	=	141.349	inches
Total Subsurface Inflow	=	0	inches/year

Note: SCS Runoff Curve Number was calculated by HELP.

Evapotranspiration and Weather Data

Station Latitude	=	31.48	Degrees
Maximum Leaf Area Index	=	5	
Start of Growing Season (Julian Date)	=	66	days
End of Growing Season (Julian Date)	=	328	days
Average Wind Speed	=	2.56	mph
Average 1st Quarter Relative Humidity	=	79	%
Average 2nd Quarter Relative Humidity	=	85	%
Average 3rd Quarter Relative Humidity	=	68	%
Average 4th Quarter Relative Humidity	=	65	%

Note: Evapotranspiration data was obtained for , Texas

Normal Mean Monthly Precipitation (inches)

Jan/Jul	Feb/Aug	Mar/Sep	Apr/Oct	May/Nov	Jun/Dec
4.467097	3.078073	5.917627	3.454814	1.470896	7.572619
1.215683	2.239322	2.466161	0.646514	1.705813	4.432564

Note: Precipitation was simulated based on HELP V4 weather simulation for:
Lat/Long: 31.48/-96.23

Normal Mean Monthly Temperature (Degrees Fahrenheit)

Jan/Jul	Feb/Aug	Mar/Sep	Apr/Oct	May/Nov	Jun/Dec
51.5	53.9	65.9	78.4	62.4	90.5
96.6	97.6	73.6	70.1	53.1	48.3

Note: Temperature was simulated based on HELP V4 weather simulation for:
Lat/Long: 31.48/-96.23
Solar radiation was simulated based on HELP V4 weather simulation for:
Lat/Long: 31.48/-96.23

Daily Output for Year 1

Column key: Head #1: drainage from Layer 2 Head #2: drainage from Layer 4

Title: NRG Limestone

Simulated On: 9/2/2025 17:37

Leak #1: leakage thru Layer 2 Leak #2: leakage thru Layer 4

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.04	0.000	0.026	0.4583	11.7224	0.0000	4.51E-03	0.0000	0.0000	3.14E-05
2			0.00	0.000	0.036	0.4549	11.6882	0.0000	4.51E-03	0.0000	0.0000	3.14E-05
3			0.28	0.154	0.026	0.4630	11.8568	0.0000	4.52E-03	0.0000	0.0000	3.14E-05
4			0.00	0.000	0.021	0.4609	11.9582	0.0000	4.53E-03	0.0000	0.0000	3.14E-05
5			0.00	0.000	0.030	0.4580	11.8326	0.0000	4.52E-03	0.0000	0.0000	3.14E-05
6			0.35	0.180	0.104	0.4630	11.9193	0.0000	4.53E-03	0.0000	0.0000	3.14E-05
7			0.55	0.538	0.058	0.4586	11.9137	0.0000	4.53E-03	0.0000	0.0000	3.13E-05
8			0.00	0.000	0.062	0.4531	11.6639	0.0000	4.50E-03	0.0000	0.0000	3.13E-05
9			0.00	0.000	0.070	0.4469	11.3834	0.0000	4.48E-03	0.0000	0.0000	3.13E-05
10			0.00	0.000	0.063	0.4412	11.0966	0.0000	4.45E-03	0.0000	0.0000	3.13E-05
11			0.00	0.000	0.054	0.4363	10.8402	0.0000	4.43E-03	0.0000	0.0000	3.13E-05
12	*		0.00	0.000	0.016	0.4347	10.6642	0.0000	4.41E-03	0.0000	0.0000	3.13E-05
13			0.00	0.000	0.029	0.4321	10.5701	0.0000	4.40E-03	0.0000	0.0000	3.13E-05
14			0.06	0.000	0.045	0.4331	10.4466	0.0000	4.39E-03	0.0000	0.0000	3.13E-05
15			0.00	0.000	0.052	0.4284	10.3762	0.0000	4.38E-03	0.0000	0.0000	3.13E-05
16	*		0.04	0.000	0.016	0.4296	10.2339	0.0000	4.37E-03	0.0000	0.0000	3.13E-05
17	*		0.00	0.000	0.000	0.4293	10.2577	0.0000	4.37E-03	0.0000	0.0000	3.13E-05
18	*		0.59	0.000	0.004	0.4305	10.2661	0.0000	4.37E-03	0.0000	0.0000	3.13E-05
19	*		0.00	0.000	0.010	0.4318	10.3302	0.0000	4.38E-03	0.0000	0.0000	3.13E-05
20	*		0.00	0.000	0.011	0.4331	10.3964	0.0000	4.38E-03	0.0000	0.0000	3.13E-05
21			0.00	0.141	0.000	0.4630	11.1971	0.0000	4.46E-03	0.0000	0.0000	3.13E-05
22			0.53	0.521	0.089	0.4559	11.8616	0.0000	4.52E-03	0.0000	0.0000	3.13E-05
23			0.00	0.000	0.030	0.4530	11.5790	0.0000	4.50E-03	0.0000	0.0000	3.13E-05
24			0.00	0.000	0.047	0.4487	11.4153	0.0000	4.48E-03	0.0000	0.0000	3.13E-05
25			0.00	0.000	0.020	0.4467	11.2502	0.0000	4.46E-03	0.0000	0.0000	3.13E-05
26			0.00	0.000	0.020	0.4447	11.1519	0.0000	4.46E-03	0.0000	0.0000	3.13E-05
27			0.00	0.000	0.037	0.4412	11.0279	0.0000	4.44E-03	0.0000	0.0000	3.13E-05

28			0.00	0.000	0.105	0.4321	10.7620	0.0000	4.42E-03	0.0000	0.0000	3.13E-05
29			1.17	0.635	0.161	0.4630	11.4123	0.0000	4.48E-03	0.0000	0.0000	3.13E-05
30			0.74	0.737	0.087	0.4560	11.8638	0.0000	4.52E-03	0.0000	0.0000	3.13E-05
31			0.11	0.000	0.095	0.4570	11.6616	0.0000	4.50E-03	0.0000	0.0000	3.13E-05
32			0.00	0.000	0.112	0.4473	11.5083	0.0000	4.49E-03	0.0000	0.0000	3.13E-05
33			0.00	0.000	0.053	0.4426	11.1310	0.0000	4.45E-03	0.0000	0.0000	3.13E-05
34			0.09	0.000	0.088	0.4422	10.9499	0.0000	4.44E-03	0.0000	0.0000	3.13E-05
35			0.13	0.000	0.099	0.4447	10.9865	0.0000	4.44E-03	0.0000	0.0000	3.13E-05
36			0.00	0.000	0.061	0.4393	10.9919	0.0000	4.44E-03	0.0000	0.0000	3.13E-05
37	*		0.00	0.000	0.000	0.4389	10.8218	0.0000	4.42E-03	0.0000	0.0000	3.13E-05
38	*		0.00	0.000	0.046	0.4347	10.7348	0.0000	4.42E-03	0.0000	0.0000	3.13E-05
39	*		0.00	0.000	0.018	0.4329	10.5761	0.0000	4.40E-03	0.0000	0.0000	3.13E-05
40	*		0.01	0.000	0.050	0.4294	10.4574	0.0000	4.39E-03	0.0000	0.0000	3.13E-05
41			0.00	0.000	0.100	0.4209	10.2128	0.0000	4.37E-03	0.0000	0.0000	3.13E-05
42			0.00	0.000	0.113	0.4111	9.8754	0.0000	4.33E-03	0.0000	0.0000	3.13E-05
43			0.00	0.000	0.079	0.4042	9.6044	0.0000	4.31E-03	0.0000	0.0000	3.13E-05
44			0.00	0.000	0.273	0.3811	9.1979	0.0000	4.27E-03	0.0000	0.0000	1.75E-05
45			0.32	0.000	0.123	0.3969	8.6302	0.0000	4.22E-03	0.0000	0.0000	0.00E+00
46			0.43	0.000	0.076	0.4261	8.8300	0.0000	4.24E-03	0.0000	0.0000	0.00E+00
47			0.00	0.000	0.071	0.4198	9.9813	0.0000	4.34E-03	0.0000	0.0000	0.00E+00
48	*		0.00	0.000	0.000	0.4194	9.8443	0.0000	4.33E-03	0.0000	0.0000	0.00E+00
49	*		0.00	0.000	0.019	0.4175	9.8076	0.0000	4.33E-03	0.0000	0.0000	0.00E+00
50	*		0.00	0.000	0.052	0.4128	9.7098	0.0000	4.32E-03	0.0000	0.0000	0.00E+00
51	*		1.20	0.000	0.012	0.4141	9.6093	0.0000	4.31E-03	0.0000	0.0000	0.00E+00
52			0.85	0.233	0.000	0.4630	10.6041	0.0000	4.40E-03	0.0000	0.0000	0.00E+00
53			0.00	0.784	0.000	0.4630	12.0000	0.0000	4.54E-03	0.0000	0.0000	0.00E+00
54			0.00	0.310	0.089	0.4626	11.9926	0.0000	4.53E-03	0.0000	0.0000	0.00E+00
55			0.00	0.000	0.041	0.4588	11.9058	0.0000	4.53E-03	0.0000	0.0000	0.00E+00
56			0.00	0.000	0.090	0.4509	11.6296	0.0000	4.50E-03	0.0000	0.0000	0.00E+00
57			0.05	0.000	0.058	0.4499	11.3471	0.0000	4.47E-03	0.0000	0.0000	0.00E+00
58			0.00	0.000	0.175	0.4349	11.0589	0.0000	4.45E-03	0.0000	0.0000	0.00E+00
59			0.00	0.000	0.174	0.4200	10.3474	0.0000	4.38E-03	0.0000	0.0000	0.00E+00
60			0.00	0.000	0.049	0.4156	9.8511	0.0000	4.33E-03	0.0000	0.0000	0.00E+00
61			0.00	0.000	0.091	0.4076	9.6691	0.0000	4.32E-03	0.0000	0.0000	0.00E+00
62	*		0.00	0.000	0.000	0.4073	9.5074	0.0000	4.30E-03	0.0000	0.0000	0.00E+00

63	*	0.00	0.000	0.000	0.4069	9.4888	0.0000	4.30E-03	0.0000	0.0000	0.00E+00
64	*	0.09	0.000	0.046	0.4082	9.4702	0.0000	4.30E-03	0.0000	0.0000	0.00E+00
65		0.29	0.000	0.000	0.4337	9.5178	0.0000	4.30E-03	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.110	0.4243	10.3142	0.0000	4.38E-03	0.0000	0.0000	0.00E+00
67		0.02	0.000	0.137	0.4141	9.9648	0.0000	4.34E-03	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.164	0.4001	9.7706	0.0000	4.32E-03	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.152	0.3871	9.4188	0.0000	4.29E-03	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.309	0.3610	8.5517	0.0000	4.21E-03	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.190	0.3448	7.7781	0.0000	4.14E-03	0.0000	0.0000	0.00E+00
72		0.81	0.000	0.077	0.4053	7.5530	0.0000	4.12E-03	0.0000	0.0000	0.00E+00
73		0.00	0.000	0.309	0.3791	8.6144	0.0000	4.22E-03	0.0000	0.0000	0.00E+00
74		0.00	0.000	0.227	0.3599	7.9973	0.0000	4.16E-03	0.0000	0.0000	0.00E+00
75		0.00	0.000	0.312	0.3336	7.5723	0.0000	4.12E-03	0.0000	0.0000	0.00E+00
76		0.00	0.000	0.167	0.3193	7.0072	0.0000	4.06E-03	0.0000	0.0000	0.00E+00
77		0.00	0.000	0.079	0.3124	6.4102	0.0000	4.01E-03	0.0000	0.0000	0.00E+00
78		0.00	0.000	0.061	0.3069	6.0812	0.0000	3.98E-03	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.053	0.3022	5.9461	0.0000	3.96E-03	0.0000	0.0000	0.00E+00
80		0.89	0.000	0.051	0.3714	5.8897	0.0000	3.96E-03	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.183	0.3558	6.5340	0.0000	4.02E-03	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.263	0.3336	6.6351	0.0000	4.03E-03	0.0000	0.0000	0.00E+00
83		2.44	0.819	0.067	0.4630	8.7900	0.0000	4.23E-03	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.153	0.4499	11.7477	0.0000	4.51E-03	0.0000	0.0000	0.00E+00
85		0.42	0.209	0.052	0.4630	11.7134	0.0000	4.51E-03	0.0000	0.0000	0.00E+00
86		0.10	0.092	0.048	0.4589	11.9203	0.0000	4.53E-03	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.177	0.4437	11.5042	0.0000	4.49E-03	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.120	0.4334	10.8631	0.0000	4.43E-03	0.0000	0.0000	0.00E+00
89		0.42	0.000	0.153	0.4552	10.8039	0.0000	4.42E-03	0.0000	0.0000	0.00E+00
90		0.45	0.276	0.073	0.4630	11.9083	0.0000	4.53E-03	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.130	0.4518	11.7822	0.0000	4.51E-03	0.0000	0.0000	0.00E+00
92	*	0.00	0.000	0.054	0.4470	11.3440	0.0000	4.47E-03	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.032	0.4439	11.1443	0.0000	4.45E-03	0.0000	0.0000	0.00E+00
94		0.04	0.000	0.035	0.4439	11.0148	0.0000	4.44E-03	0.0000	0.0000	0.00E+00
95	*	0.00	0.000	0.096	0.4355	10.8443	0.0000	4.43E-03	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.110	0.4259	10.4265	0.0000	4.39E-03	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.154	0.4128	9.9469	0.0000	4.34E-03	0.0000	0.0000	0.00E+00

98		0.00	0.000	0.154	0.3995	9.5263	0.0000	4.30E-03	0.0000	0.0000	0.00E+00
99		0.00	0.000	0.143	0.3872	9.1294	0.0000	4.26E-03	0.0000	0.0000	0.00E+00
100		0.00	0.000	0.112	0.3775	8.7696	0.0000	4.23E-03	0.0000	0.0000	0.00E+00
101		0.00	0.000	0.195	0.3609	8.2433	0.0000	4.18E-03	0.0000	0.0000	0.00E+00
102		0.83	0.000	0.077	0.4235	8.0752	0.0000	4.16E-03	0.0000	0.0000	0.00E+00
103		0.00	0.000	0.068	0.4175	9.8289	0.0000	4.33E-03	0.0000	0.0000	0.00E+00
104		0.00	0.000	0.138	0.4056	9.6959	0.0000	4.32E-03	0.0000	0.0000	0.00E+00
105		0.20	0.000	0.085	0.4147	9.3830	0.0000	4.29E-03	0.0000	0.0000	0.00E+00
106		0.00	0.000	0.418	0.3795	8.8875	0.0000	4.24E-03	0.0000	0.0000	0.00E+00
107		0.00	0.000	0.504	0.3372	7.7830	0.0000	4.14E-03	0.0000	0.0000	0.00E+00
108		0.00	0.000	0.090	0.3293	7.1903	0.0000	4.08E-03	0.0000	0.0000	0.00E+00
109		0.11	0.000	0.100	0.3295	6.9150	0.0000	4.05E-03	0.0000	0.0000	0.00E+00
110		0.18	0.000	0.128	0.3332	6.5429	0.0000	4.02E-03	0.0000	0.0000	0.00E+00
111		0.02	0.000	0.067	0.3291	6.2710	0.0000	3.99E-03	0.0000	0.0000	0.00E+00
112		0.00	0.000	0.107	0.3198	6.0759	0.0000	3.98E-03	0.0000	0.0000	0.00E+00
113		0.00	0.000	0.087	0.3122	5.9345	0.0000	3.96E-03	0.0000	0.0000	0.00E+00
114		0.32	0.000	0.052	0.3345	5.8618	0.0000	3.96E-03	0.0000	0.0000	0.00E+00
115		0.29	0.000	0.286	0.3341	5.7399	0.0000	3.94E-03	0.0000	0.0000	0.00E+00
116		0.48	0.000	0.167	0.3601	5.5395	0.0000	3.92E-03	0.0000	0.0000	0.00E+00
117		0.05	0.000	0.381	0.3321	5.9971	0.0000	3.97E-03	0.0000	0.0000	0.00E+00
118		0.94	0.000	0.253	0.3891	6.0797	0.0000	3.98E-03	0.0000	0.0000	0.00E+00
119		0.00	0.000	0.199	0.3721	7.6808	0.0000	4.13E-03	0.0000	0.0000	0.00E+00
120		0.00	0.000	0.077	0.3654	7.5447	0.0000	4.11E-03	0.0000	0.0000	0.00E+00
121		0.00	0.000	0.070	0.3592	7.4211	0.0000	4.10E-03	0.0000	0.0000	0.00E+00
122		0.00	0.000	0.152	0.3462	7.2603	0.0000	4.09E-03	0.0000	0.0000	0.00E+00
123		0.00	0.000	0.055	0.3414	7.0789	0.0000	4.07E-03	0.0000	0.0000	0.00E+00
124		0.00	0.000	0.241	0.3209	6.8738	0.0000	4.05E-03	0.0000	0.0000	0.00E+00
125		0.00	0.000	0.100	0.3123	6.4603	0.0000	4.01E-03	0.0000	0.0000	0.00E+00
126		0.00	0.000	0.084	0.3050	6.0548	0.0000	3.97E-03	0.0000	0.0000	0.00E+00
127		0.00	0.000	0.074	0.2984	5.9199	0.0000	3.96E-03	0.0000	0.0000	0.00E+00
128		0.00	0.000	0.121	0.2880	5.8313	0.0000	3.95E-03	0.0000	0.0000	0.00E+00
129		0.00	0.000	0.110	0.2785	5.6361	0.0000	3.93E-03	0.0000	0.0000	0.00E+00
130	*	0.00	0.000	0.095	0.2703	5.2682	0.0000	3.90E-03	0.0000	0.0000	0.00E+00
131	*	0.00	0.000	0.089	0.2625	4.8508	0.0000	3.86E-03	0.0000	0.0000	0.00E+00
132	*	0.99	0.000	0.029	0.2639	4.5931	0.0000	3.84E-03	0.0000	0.0000	0.00E+00

133		0.00	0.000	0.000	0.2970	4.5765	0.0000	3.83E-03	0.0000	0.0000	0.00E+00
134	*	0.01	0.000	0.036	0.2983	4.5599	0.0000	3.83E-03	0.0000	0.0000	0.00E+00
135		0.21	0.000	0.039	0.3532	4.5433	0.0000	3.83E-03	0.0000	0.0000	0.00E+00
136		0.00	0.000	0.137	0.3414	5.6452	0.0000	3.93E-03	0.0000	0.0000	0.00E+00
137		0.00	0.000	0.154	0.3282	5.7948	0.0000	3.95E-03	0.0000	0.0000	0.00E+00
138		0.00	0.000	0.058	0.3231	5.7055	0.0000	3.94E-03	0.0000	0.0000	0.00E+00
139		0.00	0.000	0.051	0.3185	5.6460	0.0000	3.93E-03	0.0000	0.0000	0.00E+00
140		0.00	0.000	0.228	0.2992	5.5388	0.0000	3.92E-03	0.0000	0.0000	0.00E+00
141		0.00	0.000	0.196	0.2825	5.3557	0.0000	3.91E-03	0.0000	0.0000	0.00E+00
142		0.00	0.000	0.207	0.2650	5.0545	0.0000	3.88E-03	0.0000	0.0000	0.00E+00
143		0.00	0.000	0.121	0.2546	4.5251	0.0000	3.83E-03	0.0000	0.0000	0.00E+00
144		0.00	0.000	0.176	0.2397	3.9881	0.0000	3.78E-03	0.0000	0.0000	0.00E+00
145		0.09	0.000	0.225	0.2279	3.6096	0.0000	3.74E-03	0.0000	0.0000	0.00E+00
146		0.07	0.000	0.063	0.2282	3.3190	0.0000	3.72E-03	0.0000	0.0000	0.00E+00
147		0.04	0.000	0.064	0.2262	3.2822	0.0000	3.71E-03	0.0000	0.0000	0.00E+00
148		0.00	0.000	0.125	0.2154	3.1514	0.0000	3.70E-03	0.0000	0.0000	0.00E+00
149		0.00	0.000	0.093	0.2077	2.8680	0.0000	3.67E-03	0.0000	0.0000	0.00E+00
150		0.06	0.000	0.092	0.2045	2.5838	0.0000	3.65E-03	0.0000	0.0000	0.00E+00
151		0.00	0.000	0.452	0.1666	1.7637	0.0000	3.57E-03	0.0000	0.0000	0.00E+00
152		0.00	0.000	0.369	0.1356	0.6394	0.0000	2.61E-03	0.0000	0.0000	0.00E+00
153		0.50	0.000	0.265	0.1550	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154		0.00	0.000	0.228	0.1364	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155		0.00	0.000	0.133	0.1253	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156		0.00	0.000	0.100	0.1170	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157		0.00	0.000	0.009	0.1162	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158		0.00	0.000	0.002	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159		0.00	0.000	0.001	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160		0.00	0.000	0.000	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161		0.00	0.000	0.000	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162		0.00	0.000	0.000	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163		0.00	0.000	0.000	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164		0.12	0.000	0.019	0.1244	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165		0.00	0.000	0.071	0.1184	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166		1.20	0.000	0.084	0.2111	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167		1.67	0.000	0.162	0.3366	0.0535	0.0000	8.55E-04	0.0000	0.0000	0.00E+00

168	0.22	0.000	0.076	0.3480	4.4700	0.0000	3.82E-03	0.0000	0.0000	0.00E+00
169	0.19	0.000	0.063	0.3579	5.4691	0.0000	3.92E-03	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.183	0.3423	5.5941	0.0000	3.93E-03	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.104	0.3333	5.8429	0.0000	3.95E-03	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.249	0.3122	5.7407	0.0000	3.94E-03	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.275	0.2890	5.5243	0.0000	3.92E-03	0.0000	0.0000	0.00E+00
174	0.83	0.000	0.072	0.3515	5.3584	0.0000	3.91E-03	0.0000	0.0000	0.00E+00
175	1.00	0.000	0.197	0.4182	6.8990	0.0000	4.05E-03	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.301	0.3927	9.2435	0.0000	4.27E-03	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.295	0.3677	8.5608	0.0000	4.21E-03	0.0000	0.0000	0.00E+00
178	0.04	0.000	0.344	0.3423	7.8317	0.0000	4.14E-03	0.0000	0.0000	0.00E+00
179	0.57	0.000	0.341	0.3613	7.2845	0.0000	4.09E-03	0.0000	0.0000	0.00E+00
180	1.24	0.000	0.152	0.4518	8.0353	0.0000	4.16E-03	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.317	0.4250	11.0229	0.0000	4.44E-03	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.379	0.3930	9.6998	0.0000	4.32E-03	0.0000	0.0000	0.00E+00
183	0.13	0.000	0.161	0.3904	8.9050	0.0000	4.24E-03	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.371	0.3591	8.2733	0.0000	4.18E-03	0.0000	0.0000	0.00E+00
185	0.01	0.000	0.129	0.3486	7.6637	0.0000	4.13E-03	0.0000	0.0000	0.00E+00
186	0.04	0.000	0.400	0.3185	7.1522	0.0000	4.08E-03	0.0000	0.0000	0.00E+00
187	0.26	0.000	0.393	0.3071	6.1277	0.0000	3.98E-03	0.0000	0.0000	0.00E+00
188	0.06	0.000	0.386	0.2792	5.4559	0.0000	3.92E-03	0.0000	0.0000	0.00E+00
189	0.22	0.000	0.383	0.2656	4.6570	0.0000	3.84E-03	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.349	0.2362	3.9778	0.0000	3.78E-03	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.354	0.2064	3.3869	0.0000	3.72E-03	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.302	0.1810	2.2144	0.0000	3.61E-03	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.260	0.1590	1.5290	0.0000	3.55E-03	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.291	0.1345	0.6552	0.0000	2.61E-03	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.092	0.1268	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.090	0.1193	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.039	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.000	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.05	0.000	0.026	0.1180	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.05	0.000	0.046	0.1187	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.14	0.000	0.029	0.1281	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.075	0.1219	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.055	0.1173	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.012	0.1163	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.003	0.1161	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.001	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.002	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.13	0.000	0.052	0.1222	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.11	0.000	0.096	0.1233	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.01	0.000	0.069	0.1183	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.019	0.1167	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.006	0.1162	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.002	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.000	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.000	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.01	0.000	0.007	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.000	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.03	0.000	0.025	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.19	0.000	0.046	0.1279	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.24	0.000	0.097	0.1399	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.29	0.000	0.191	0.1477	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.30	0.000	0.088	0.1656	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.21	0.000	0.277	0.1604	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.26	0.000	0.363	0.1522	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.105	0.1438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.274	0.1209	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.050	0.1167	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.007	0.1161	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.001	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.28	0.000	0.055	0.1348	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.086	0.1276	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.103	0.1190	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.031	0.1164	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.004	0.1161	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.11	0.000	0.046	0.1210	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.08	0.000	0.083	0.1206	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.04	0.000	0.053	0.1195	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.019	0.1179	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.017	0.1165	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.005	0.1161	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.11	0.000	0.053	0.1205	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.07	0.000	0.046	0.1229	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.02	0.000	0.052	0.1205	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.032	0.1180	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.019	0.1165	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.02	0.000	0.024	0.1163	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.002	0.1161	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.001	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.001	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.06	0.000	0.035	0.1184	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.02	0.000	0.021	0.1182	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.012	0.1172	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.011	0.1163	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.002	0.1161	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.001	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.16	0.000	0.041	0.1260	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.057	0.1212	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.050	0.1171	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.08	0.000	0.039	0.1208	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.020	0.1191	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.019	0.1175	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.03	0.000	0.028	0.1174	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.010	0.1166	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.24	0.000	0.050	0.1322	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.043	0.1286	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.079	0.1220	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.055	0.1174	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.57	0.000	0.085	0.1577	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.106	0.1489	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.056	0.1442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	1.05	0.000	0.065	0.2262	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.23	0.000	0.118	0.2358	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.00	0.000	0.145	0.2237	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274		0.00	0.000	0.200	0.2070	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275		0.00	0.000	0.166	0.1932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276		0.00	0.000	0.095	0.1853	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277		0.00	0.000	0.178	0.1704	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278		0.00	0.000	0.121	0.1603	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279		0.00	0.000	0.167	0.1464	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280		0.00	0.000	0.216	0.1284	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281		0.29	0.000	0.077	0.1466	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282		0.05	0.000	0.070	0.1452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283		0.00	0.000	0.051	0.1412	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.00	0.000	0.108	0.1323	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285		0.00	0.000	0.048	0.1283	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286		0.00	0.000	0.050	0.1241	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.00	0.000	0.079	0.1175	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288		0.04	0.000	0.049	0.1168	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289		0.09	0.000	0.042	0.1209	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290		0.00	0.000	0.030	0.1184	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291		0.00	0.000	0.015	0.1171	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.00	0.000	0.010	0.1163	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293		0.00	0.000	0.003	0.1161	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294		0.00	0.000	0.000	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295		0.16	0.000	0.032	0.1269	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.00	0.000	0.013	0.1258	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297		0.00	0.000	0.019	0.1243	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298	*	0.00	0.000	0.019	0.1227	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299		0.00	0.000	0.020	0.1211	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300		0.00	0.000	0.019	0.1195	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301		0.00	0.000	0.018	0.1180	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302		0.00	0.000	0.015	0.1167	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303		0.00	0.000	0.007	0.1161	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304		0.00	0.000	0.001	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305		0.00	0.000	0.002	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306		0.05	0.000	0.025	0.1177	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307		0.09	0.000	0.030	0.1228	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.009	0.1220	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.010	0.1212	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.012	0.1202	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.08	0.000	0.041	0.1236	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312	*	0.00	0.000	0.013	0.1225	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.009	0.1217	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.34	0.000	0.041	0.1464	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315	*	0.04	0.000	0.042	0.1463	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.013	0.1452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.012	0.1442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.012	0.1432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.013	0.1421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.012	0.1411	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.013	0.1401	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.012	0.1390	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.013	0.1379	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.00	0.000	0.015	0.1367	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.013	0.1356	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		1.11	0.000	0.038	0.2247	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327	*	0.00	0.000	0.014	0.2236	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.016	0.2223	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329	*	0.00	0.000	0.000	0.2223	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.055	0.2177	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331	*	0.00	0.000	0.032	0.2150	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332	*	0.00	0.000	0.000	0.2150	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.037	0.2120	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.049	0.2079	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.03	0.000	0.062	0.2051	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.00	0.000	0.048	0.2011	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.061	0.1961	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.034	0.1932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339	*	1.30	0.000	0.012	0.1949	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340	*	0.00	0.000	0.015	0.1965	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.000	0.2989	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.063	0.2934	1.1154	0.0000	3.51E-03	0.0000	0.0000	3.35E-05

343		0.06	0.000	0.036	0.2949	1.6440	0.0000	3.56E-03	0.0000	0.0000	3.35E-05
344		0.02	0.000	0.038	0.2934	2.4522	0.0000	3.63E-03	0.0000	0.0000	3.35E-05
345	*	0.00	0.000	0.029	0.2907	2.7559	0.0000	3.66E-03	0.0000	0.0000	3.35E-05
346	*	0.00	0.000	0.031	0.2878	2.8512	0.0000	3.67E-03	0.0000	0.0000	3.35E-05
347	*	0.00	0.000	0.000	0.2875	2.9177	0.0000	3.68E-03	0.0000	0.0000	3.35E-05
348	*	0.00	0.000	0.030	0.2846	2.9537	0.0000	3.68E-03	0.0000	0.0000	3.35E-05
349	*	0.00	0.000	0.000	0.2843	2.9738	0.0000	3.68E-03	0.0000	0.0000	3.35E-05
350		0.00	0.000	0.037	0.2809	2.9855	0.0000	3.68E-03	0.0000	0.0000	3.35E-05
351		0.16	0.000	0.063	0.2885	2.9845	0.0000	3.68E-03	0.0000	0.0000	3.35E-05
352		0.16	0.000	0.100	0.2935	2.9481	0.0000	3.68E-03	0.0000	0.0000	3.35E-05
353		0.05	0.000	0.077	0.2908	2.9028	0.0000	3.68E-03	0.0000	0.0000	3.35E-05
354		0.00	0.000	0.055	0.2859	2.8640	0.0000	3.67E-03	0.0000	0.0000	3.35E-05
355		1.14	0.000	0.041	0.3768	3.4724	0.0000	3.73E-03	0.0000	0.0000	3.35E-05
356	*	0.00	0.000	0.030	0.3739	6.9886	0.0000	4.06E-03	0.0000	0.0000	3.35E-05
357	*	0.00	0.000	0.020	0.3719	7.3225	0.0000	4.09E-03	0.0000	0.0000	3.35E-05
358		0.00	0.000	0.063	0.3663	7.2913	0.0000	4.09E-03	0.0000	0.0000	3.35E-05
359		0.00	0.000	0.102	0.3575	7.1637	0.0000	4.08E-03	0.0000	0.0000	3.35E-05
360		0.00	0.000	0.039	0.3539	7.0350	0.0000	4.07E-03	0.0000	0.0000	3.35E-05
361	*	0.00	0.000	0.022	0.3517	6.9708	0.0000	4.06E-03	0.0000	0.0000	3.35E-05
362		0.00	0.000	0.042	0.3479	6.9112	0.0000	4.05E-03	0.0000	0.0000	3.35E-05
363		0.00	0.000	0.038	0.3443	6.8356	0.0000	4.05E-03	0.0000	0.0000	3.35E-05
364		0.00	0.000	0.096	0.3360	6.7329	0.0000	4.04E-03	0.0000	0.0000	3.35E-05
365		1.52	0.000	0.075	0.4564	7.4504	0.0000	4.11E-03	0.0000	0.0000	3.35E-05

* = Frozen (air or soil)

Annual Totals for Year 1			
	inches	cubic feet	percent
Precipitation	38.67	##########	100.00
Runoff	5.631	2,595,963.2	14.56
Evapotranspiration	32.206	##########	83.29
Percolation/Leakage through Layer 2	0.840779	387,607.7	2.17
Average Head on Top of Layer 2	4.3822	---	---
Percolation/Leakage through Layer 4	0.002170	1,000.5	0.01

Average Head on Top of Layer 4	0.0000	---	---
Change in Water Storage	0.8279	381,654.4	2.14
Soil Water at Start of Year	141.3484	##########	365.55
Soil Water at End of Year	142.1763	##########	367.69
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Average Annual Totals Summary

Title: NRG Limestone
Simulated on: 9/2/2025 17:37

	Average Annual Totals for Years 1 - 1*			
	(inches)	[std dev]	(cubic feet)	(percent)
Precipitation	38.67	[0]	17,825,957.6	100.00
Runoff	5.631	[0]	2,595,963.2	14.56
Evapotranspiration	32.206	[0]	14,847,339.4	83.29
Subprofile1				
Percolation/leakage through Layer 2	0.840779	[0]	387,607.7	2.17
Average Head on Top of Layer 2	4.3822		---	---
Subprofile2				
Percolation/leakage through Layer 4	0.002170	[0]	1,000.5	0.01
Average Head on Top of Layer 4	0.0000		---	---
Water storage				
Change in water storage	0.8279		381,654.4	2.14

* Note: Average inches are converted to volume based on the user-specified area.

Peak Values Summary

Title: NRG Limestone
Simulated on: 9/2/2025 17:37

	Peak Values for Years 1 - 1*		
	(inches)		(cubic feet)
Precipitation	2.44		1,126,522.5
Runoff	0.819		377,725.6
Subprofile1			
Percolation/leakage through Layer 2	0.004535		2,090.8
Average head on Layer 2	12.0000		
Subprofile2			
Percolation/leakage through Layer 4	0.000034		15.5
Average head on Layer 4	0.0000		
Other Parameters			
Snow water	1.2759		588,208.0
Maximum vegetation soil water	0.4630	(vol/vol)	
Minimum vegetation soil water	0.1160	(vol/vol)	

Final Water Storage in Landfill Profile at End of Simulation Period

Title: NRG Limestone
Simulated on: 9/2/2025 17:37
Simulation period: 1 years

	Final Water Storage	
Layer	(inches)	(vol/vol)
1	5.4768	0.4564
2	15.3719	0.4270
3	111.0796	0.0771
4	10.2480	0.4270
Snow water	0.0000	---

APPENDIX 3
HELP MODEL OUTPUT
COVER SYSTEM: RECENTLY (2024 AND LATER) CLOSED SLOPE

HYDROLOGIC EVALUATION OF LANDFILL PERFORMANCE
HELP MODEL VERSION 4.0 BETA (2018)
DEVELOPED BY USEPA NATIONAL RISK MANAGEMENT RESEARCH LABORATORY

Title: NRG Limestone **Simulated On:** 9/2/2025 16:27

Layer 1

Type 1 - Vertical Percolation Layer (Cover Soil)
L - Loam
Material Texture Number 8

Thickness	=	6	inches
Porosity	=	0.463	vol/vol
Field Capacity	=	0.232	vol/vol
Wilting Point	=	0.116	vol/vol
Initial Soil Water Content	=	0.4492	vol/vol
Effective Sat. Hyd. Conductivity	=	3.70E-04	cm/sec

Layer 2

Type 3 - Barrier Soil Liner
Clay Cap
Material Texture Number 44

Thickness	=	18	inches
Porosity	=	0.4	vol/vol
Field Capacity	=	0.002	vol/vol
Wilting Point	=	0.001	vol/vol
Initial Soil Water Content	=	0.4	vol/vol
Effective Sat. Hyd. Conductivity	=	1.00E-07	cm/sec

Layer 3

Type 1 - Vertical Percolation Layer (Waste)
High-Density Electric Plant Coal Bottom Ash
Material Texture Number 31

Thickness	=	720	inches
Porosity	=	0.578	vol/vol
Field Capacity	=	0.076	vol/vol
Wilting Point	=	0.025	vol/vol
Initial Soil Water Content	=	0.0772	vol/vol
Effective Sat. Hyd. Conductivity	=	4.10E-03	cm/sec

Layer 4

Type 3 - Barrier Soil Liner
Clay liner
Material Texture Number 43

Thickness	=	24	inches
Porosity	=	0.4	vol/vol
Field Capacity	=	0.002	vol/vol
Wilting Point	=	0.001	vol/vol
Initial Soil Water Content	=	0.4	vol/vol
Effective Sat. Hyd. Conductivity	=	1.00E-07	cm/sec

Note: Initial moisture content of the layers and snow water were computed as nearly steady-state values by HELP.

General Design and Evaporative Zone Data

SCS Runoff Curve Number	=	81.8	
Fraction of Area Allowing Runoff	=	100	%
Area projected on a horizontal plane	=	45	acres
Evaporative Zone Depth	=	6	inches
Initial Water in Evaporative Zone	=	2.695	inches
Upper Limit of Evaporative Storage	=	2.778	inches
Lower Limit of Evaporative Storage	=	0.696	inches
Initial Snow Water	=	0	inches
Initial Water in Layer Materials	=	75.072	inches
Total Initial Water	=	75.072	inches
Total Subsurface Inflow	=	0	inches/year

Note: SCS Runoff Curve Number was calculated by HELP.

Evapotranspiration and Weather Data

Station Latitude	=	31.48	Degrees
Maximum Leaf Area Index	=	5	
Start of Growing Season (Julian Date)	=	66	days
End of Growing Season (Julian Date)	=	328	days
Average Wind Speed	=	2.56	mph
Average 1st Quarter Relative Humidity	=	79	%
Average 2nd Quarter Relative Humidity	=	85	%
Average 3rd Quarter Relative Humidity	=	68	%
Average 4th Quarter Relative Humidity	=	65	%

Note: Evapotranspiration data was obtained for , Texas

Normal Mean Monthly Precipitation (inches)

Jan/Jul	Feb/Aug	Mar/Sep	Apr/Oct	May/Nov	Jun/Dec
1.723254	3.484585	1.838192	2.047673	4.656764	1.954551
3.591443	2.159664	5.458794	4.962183	1.478498	6.331389

Note: Precipitation was simulated based on HELP V4 weather simulation for:
Lat/Long: 31.48/-96.23

Normal Mean Monthly Temperature (Degrees Fahrenheit)

Jan/Jul	Feb/Aug	Mar/Sep	Apr/Oct	May/Nov	Jun/Dec
62.9	61	86.8	78.7	94.1	91.5
96.6	92.8	88.2	77.4	63.3	58.9

Note: Temperature was simulated based on HELP V4 weather simulation for:
Lat/Long: 31.48/-96.23
Solar radiation was simulated based on HELP V4 weather simulation for:
Lat/Long: 31.48/-96.23

Daily Output for Year 1

Column key: Head #1: drainage from Layer 2 Head #2: drainage from Layer 4

Title: NRG Limestone

Simulated On: 9/2/2025 16:27

Leak #1: leakage thru Layer 2 Leak #2: leakage thru Layer 4

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.04	0.000	0.105	0.4373	5.5449	0.0000	4.45E-03	0.0000	0.0000	0.00E+00
2			0.02	0.000	0.144	0.4159	5.1478	0.0000	4.37E-03	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.105	0.3977	4.8888	0.0000	4.33E-03	0.0000	0.0000	0.00E+00
4			0.04	0.000	0.045	0.3962	4.7291	0.0000	4.30E-03	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.039	0.3890	4.5806	0.0000	4.27E-03	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.086	0.3740	4.3919	0.0000	4.23E-03	0.0000	0.0000	0.00E+00
7			0.00	0.000	0.071	0.3614	4.0655	0.0000	4.17E-03	0.0000	0.0000	0.00E+00
8			0.00	0.000	0.074	0.3484	3.8940	0.0000	4.14E-03	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.043	0.3405	3.7873	0.0000	4.12E-03	0.0000	0.0000	0.00E+00
10			0.35	0.000	0.046	0.3912	3.7097	0.0000	4.10E-03	0.0000	0.0000	0.00E+00
11			0.00	0.000	0.078	0.3775	4.0050	0.0000	4.16E-03	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.076	0.3642	3.9222	0.0000	4.14E-03	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.154	0.3378	3.7549	0.0000	4.11E-03	0.0000	0.0000	0.00E+00
14			0.55	0.000	0.045	0.4216	3.6908	0.0000	4.10E-03	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.105	0.4034	4.7656	0.0000	4.30E-03	0.0000	0.0000	0.00E+00
16			0.02	0.000	0.086	0.3923	4.5946	0.0000	4.27E-03	0.0000	0.0000	0.00E+00
17			0.00	0.000	0.078	0.3785	4.4067	0.0000	4.23E-03	0.0000	0.0000	0.00E+00
18			0.00	0.000	0.111	0.3593	4.1241	0.0000	4.18E-03	0.0000	0.0000	0.00E+00
19			0.00	0.000	0.061	0.3483	3.8724	0.0000	4.13E-03	0.0000	0.0000	0.00E+00
20	*		0.00	0.000	0.038	0.3414	3.7800	0.0000	4.12E-03	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.052	0.3321	3.6863	0.0000	4.10E-03	0.0000	0.0000	0.00E+00
22	*		0.00	0.000	0.037	0.3253	3.5384	0.0000	4.07E-03	0.0000	0.0000	0.00E+00
23			0.00	0.000	0.039	0.3181	3.3579	0.0000	4.04E-03	0.0000	0.0000	0.00E+00
24			0.19	0.000	0.092	0.3343	3.1511	0.0000	4.00E-03	0.0000	0.0000	0.00E+00
25			0.34	0.000	0.059	0.3797	3.1089	0.0000	3.99E-03	0.0000	0.0000	0.00E+00
26			0.01	0.000	0.061	0.3707	3.7987	0.0000	4.12E-03	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.135	0.3475	3.7736	0.0000	4.11E-03	0.0000	0.0000	0.00E+00

28		0.07	0.000	0.095	0.3431	3.5874	0.0000	4.08E-03	0.0000	0.0000	0.00E+00
29		0.02	0.000	0.022	0.3419	3.4796	0.0000	4.06E-03	0.0000	0.0000	0.00E+00
30		0.00	0.000	0.093	0.3257	3.4023	0.0000	4.04E-03	0.0000	0.0000	0.00E+00
31		0.06	0.000	0.061	0.3252	3.2660	0.0000	4.02E-03	0.0000	0.0000	0.00E+00
32		0.09	0.000	0.101	0.3220	3.0913	0.0000	3.99E-03	0.0000	0.0000	0.00E+00
33		0.01	0.000	0.087	0.3083	2.9396	0.0000	3.96E-03	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.085	0.2935	2.8739	0.0000	3.94E-03	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.151	0.2677	2.6806	0.0000	3.91E-03	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.129	0.2456	2.2174	0.0000	3.82E-03	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.040	0.2384	1.9719	0.0000	3.77E-03	0.0000	0.0000	0.00E+00
38		0.00	0.000	0.054	0.2287	1.9384	0.0000	3.77E-03	0.0000	0.0000	0.00E+00
39		0.11	0.000	0.042	0.2399	1.8760	0.0000	3.76E-03	0.0000	0.0000	0.00E+00
40		0.22	0.000	0.054	0.2667	1.7569	0.0000	3.73E-03	0.0000	0.0000	0.00E+00
41	*	0.29	0.000	0.010	0.2694	1.6616	0.0000	3.72E-03	0.0000	0.0000	0.00E+00
42	*	0.00	0.000	0.011	0.2720	1.6456	0.0000	3.71E-03	0.0000	0.0000	0.00E+00
43		0.00	0.000	0.046	0.3020	1.6295	0.0000	3.71E-03	0.0000	0.0000	0.00E+00
44		0.15	0.000	0.049	0.3186	1.7168	0.0000	3.73E-03	0.0000	0.0000	0.00E+00
45		0.00	0.000	0.029	0.3132	1.8678	0.0000	3.75E-03	0.0000	0.0000	0.00E+00
46		0.00	0.000	0.097	0.2965	2.0767	0.0000	3.79E-03	0.0000	0.0000	0.00E+00
47		1.68	0.584	0.090	0.4630	3.7556	0.0000	4.11E-03	0.0000	0.0000	0.00E+00
48		0.09	0.088	0.086	0.4485	5.8606	0.0000	4.51E-03	0.0000	0.0000	0.00E+00
49		0.03	0.000	0.031	0.4470	5.6243	0.0000	4.46E-03	0.0000	0.0000	0.00E+00
50		0.00	0.000	0.029	0.4415	5.5318	0.0000	4.45E-03	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.047	0.4330	5.3731	0.0000	4.42E-03	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.138	0.4092	5.0451	0.0000	4.35E-03	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.137	0.3857	4.6416	0.0000	4.28E-03	0.0000	0.0000	0.00E+00
54		0.48	0.000	0.070	0.4534	4.6411	0.0000	4.28E-03	0.0000	0.0000	0.00E+00
55		0.34	0.085	0.193	0.4630	5.8878	0.0000	4.51E-03	0.0000	0.0000	0.00E+00
56		0.00	0.000	0.080	0.4490	5.8651	0.0000	4.51E-03	0.0000	0.0000	0.00E+00
57		0.00	0.000	0.181	0.4180	5.3730	0.0000	4.42E-03	0.0000	0.0000	0.00E+00
58		0.00	0.000	0.058	0.4076	4.8497	0.0000	4.32E-03	0.0000	0.0000	0.00E+00
59		0.00	0.000	0.167	0.3791	4.5820	0.0000	4.27E-03	0.0000	0.0000	0.00E+00
60		0.00	0.000	0.226	0.3408	4.0292	0.0000	4.16E-03	0.0000	0.0000	0.00E+00
61		0.37	0.000	0.120	0.3817	3.6594	0.0000	4.09E-03	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.185	0.3503	3.6821	0.0000	4.10E-03	0.0000	0.0000	0.00E+00

63	0.00	0.000	0.253	0.3075	3.3599	0.0000	4.04E-03	0.0000	0.0000	0.00E+00
64	0.00	0.000	0.201	0.2734	2.8694	0.0000	3.94E-03	0.0000	0.0000	0.00E+00
65	0.00	0.000	0.201	0.2393	2.2641	0.0000	3.83E-03	0.0000	0.0000	0.00E+00
66	0.00	0.000	0.188	0.2074	1.7343	0.0000	3.73E-03	0.0000	0.0000	0.00E+00
67	0.00	0.000	0.078	0.1938	1.2369	0.0000	3.64E-03	0.0000	0.0000	0.00E+00
68	0.00	0.000	0.050	0.1848	0.9957	0.0000	3.59E-03	0.0000	0.0000	0.00E+00
69	0.00	0.000	0.051	0.1758	0.9691	0.0000	3.58E-03	0.0000	0.0000	0.00E+00
70	0.00	0.000	0.045	0.1677	0.9125	0.0000	3.57E-03	0.0000	0.0000	0.00E+00
71	0.15	0.000	0.042	0.1849	0.7979	0.0000	3.55E-03	0.0000	0.0000	0.00E+00
72	0.00	0.000	0.037	0.1781	0.6839	0.0000	3.53E-03	0.0000	0.0000	0.00E+00
73	0.00	0.000	0.035	0.1718	0.5917	0.0000	3.51E-03	0.0000	0.0000	0.00E+00
74	0.00	0.000	0.033	0.1658	0.5285	0.0000	3.50E-03	0.0000	0.0000	0.00E+00
75	0.00	0.000	0.031	0.1600	0.4679	0.0000	3.49E-03	0.0000	0.0000	0.00E+00
76	0.00	0.000	0.029	0.1546	0.4087	0.0000	3.48E-03	0.0000	0.0000	0.00E+00
77	0.00	0.000	0.027	0.1494	0.3534	0.0000	3.47E-03	0.0000	0.0000	0.00E+00
78	0.00	0.000	0.026	0.1445	0.2866	0.0000	3.46E-03	0.0000	0.0000	0.00E+00
79	0.00	0.000	0.026	0.1396	0.1823	0.0000	3.44E-03	0.0000	0.0000	0.00E+00
80	0.00	0.000	0.026	0.1347	0.0601	0.0000	2.56E-03	0.0000	0.0000	0.00E+00
81	0.00	0.000	0.025	0.1305	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82	0.00	0.000	0.028	0.1258	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83	0.00	0.000	0.026	0.1215	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84	0.00	0.000	0.028	0.1168	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85	0.00	0.000	0.005	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86	0.02	0.000	0.003	0.1191	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87	0.20	0.000	0.011	0.1514	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88	0.45	0.000	0.016	0.2236	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89	0.64	0.000	0.023	0.3266	0.2397	0.0000	1.75E-03	0.0000	0.0000	0.00E+00
90	0.00	0.000	0.218	0.2897	1.9232	0.0000	3.76E-03	0.0000	0.0000	0.00E+00
91	0.00	0.000	0.150	0.2640	2.0112	0.0000	3.78E-03	0.0000	0.0000	0.00E+00
92	0.00	0.000	0.208	0.2288	1.9700	0.0000	3.77E-03	0.0000	0.0000	0.00E+00
93	0.01	0.000	0.080	0.2160	1.8007	0.0000	3.74E-03	0.0000	0.0000	0.00E+00
94	0.00	0.000	0.081	0.2019	1.4552	0.0000	3.68E-03	0.0000	0.0000	0.00E+00
95	0.08	0.000	0.064	0.2040	1.1308	0.0000	3.62E-03	0.0000	0.0000	0.00E+00
96	0.06	0.000	0.054	0.2041	0.9854	0.0000	3.59E-03	0.0000	0.0000	0.00E+00
97	0.04	0.000	0.052	0.2017	0.9627	0.0000	3.58E-03	0.0000	0.0000	0.00E+00

98	0.00	0.000	0.046	0.1934	0.9404	0.0000	3.58E-03	0.0000	0.0000	0.00E+00
99	0.00	0.000	0.043	0.1857	0.9187	0.0000	3.58E-03	0.0000	0.0000	0.00E+00
100	0.00	0.000	0.037	0.1789	0.8976	0.0000	3.57E-03	0.0000	0.0000	0.00E+00
101	0.03	0.000	0.037	0.1777	0.8771	0.0000	3.57E-03	0.0000	0.0000	0.00E+00
102	0.00	0.000	0.033	0.1716	0.8569	0.0000	3.56E-03	0.0000	0.0000	0.00E+00
103	0.00	0.000	0.039	0.1645	0.8006	0.0000	3.55E-03	0.0000	0.0000	0.00E+00
104	0.00	0.000	0.032	0.1590	0.6824	0.0000	3.53E-03	0.0000	0.0000	0.00E+00
105	0.04	0.000	0.047	0.1575	0.5353	0.0000	3.50E-03	0.0000	0.0000	0.00E+00
106	0.04	0.000	0.038	0.1575	0.3774	0.0000	3.47E-03	0.0000	0.0000	0.00E+00
107	0.00	0.000	0.041	0.1501	0.2773	0.0000	3.45E-03	0.0000	0.0000	0.00E+00
108	0.00	0.000	0.032	0.1442	0.1964	0.0000	3.44E-03	0.0000	0.0000	0.00E+00
109	0.30	0.000	0.040	0.1866	0.1281	0.0000	3.43E-03	0.0000	0.0000	0.00E+00
110	0.00	0.000	0.029	0.1819	0.0641	0.0000	3.41E-03	0.0000	0.0000	0.00E+00
111	0.00	0.000	0.048	0.1736	0.0177	0.0000	2.07E-03	0.0000	0.0000	0.00E+00
112	0.00	0.000	0.034	0.1680	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113	0.00	0.000	0.032	0.1627	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114	0.00	0.000	0.027	0.1581	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115	0.00	0.000	0.027	0.1536	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116	0.14	0.000	0.025	0.1734	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117	0.17	0.000	0.028	0.1967	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118	0.00	0.000	0.039	0.1907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119	0.00	0.000	0.041	0.1839	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120	1.13	0.001	0.026	0.3670	0.0730	0.0000	8.64E-04	0.0000	0.0000	0.00E+00
121	0.00	0.000	0.071	0.3546	3.2119	0.0000	4.01E-03	0.0000	0.0000	0.00E+00
122	0.00	0.000	0.044	0.3466	3.3673	0.0000	4.04E-03	0.0000	0.0000	0.00E+00
123	0.00	0.000	0.246	0.3050	3.1606	0.0000	4.00E-03	0.0000	0.0000	0.00E+00
124	0.00	0.000	0.075	0.2919	2.9204	0.0000	3.95E-03	0.0000	0.0000	0.00E+00
125	0.25	0.000	0.078	0.3204	2.8457	0.0000	3.94E-03	0.0000	0.0000	0.00E+00
126	0.00	0.000	0.226	0.2821	2.6960	0.0000	3.91E-03	0.0000	0.0000	0.00E+00
127	0.00	0.000	0.175	0.2522	2.3427	0.0000	3.84E-03	0.0000	0.0000	0.00E+00
128	0.00	0.000	0.165	0.2241	1.9586	0.0000	3.77E-03	0.0000	0.0000	0.00E+00
129	0.00	0.000	0.166	0.1957	1.5263	0.0000	3.69E-03	0.0000	0.0000	0.00E+00
130	0.00	0.000	0.107	0.1773	1.0052	0.0000	3.59E-03	0.0000	0.0000	0.00E+00
131	0.00	0.000	0.091	0.1615	0.8612	0.0000	3.56E-03	0.0000	0.0000	0.00E+00
132	0.00	0.000	0.135	0.1384	0.4550	0.0000	3.49E-03	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.079	0.1252	0.0198	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.055	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.000	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.000	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.43	0.000	0.032	0.1822	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.104	0.1649	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.063	0.1544	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.107	0.1364	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.083	0.1226	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.16	0.000	0.081	0.1366	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.27	0.000	0.074	0.1686	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.22	0.000	0.291	0.1564	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.25	0.000	0.205	0.1631	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.38	0.000	0.062	0.2161	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	1.61	0.105	0.183	0.4368	0.8255	0.0000	1.86E-03	0.0000	0.0000	0.00E+00
148	0.99	0.742	0.086	0.4630	5.8270	0.0000	4.50E-03	0.0000	0.0000	3.39E-05
149	0.10	0.093	0.238	0.4233	5.6289	0.0000	4.47E-03	0.0000	0.0000	3.39E-05
150	0.00	0.000	0.377	0.3598	4.5659	0.0000	4.26E-03	0.0000	0.0000	5.57E-07
151	0.00	0.000	0.182	0.3287	3.7325	0.0000	4.11E-03	0.0000	0.0000	0.00E+00
152	0.16	0.000	0.072	0.3434	3.4467	0.0000	4.05E-03	0.0000	0.0000	0.00E+00
153	0.80	0.000	0.217	0.4397	3.6495	0.0000	4.09E-03	0.0000	0.0000	0.00E+00
154	0.07	0.000	0.192	0.4188	5.1896	0.0000	4.38E-03	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.100	0.4022	4.8444	0.0000	4.32E-03	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.189	0.3699	4.4992	0.0000	4.25E-03	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.221	0.3325	3.8762	0.0000	4.13E-03	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.236	0.2924	3.2524	0.0000	4.02E-03	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.206	0.2575	2.6256	0.0000	3.90E-03	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.152	0.2315	2.0280	0.0000	3.78E-03	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.325	0.1767	1.4319	0.0000	3.67E-03	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.264	0.1323	0.4993	0.0000	2.64E-03	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.089	0.1175	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.14	0.000	0.094	0.1248	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.04	0.000	0.061	0.1206	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.01	0.000	0.024	0.1189	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.72	0.000	0.158	0.2129	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.01	0.000	0.078	0.2008	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.099	0.1844	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.127	0.1633	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.077	0.1505	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.170	0.1221	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.037	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.000	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.000	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.08	0.000	0.034	0.1230	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.028	0.1184	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.010	0.1167	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.17	0.000	0.071	0.1327	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.043	0.1256	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.01	0.000	0.054	0.1179	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.009	0.1163	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.001	0.1161	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.42	0.000	0.169	0.1573	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.088	0.1426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.02	0.000	0.110	0.1272	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.21	0.000	0.100	0.1448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.094	0.1291	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.044	0.1218	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.029	0.1169	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.004	0.1162	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.52	0.000	0.145	0.1784	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.38	0.000	0.256	0.1987	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.16	0.000	0.099	0.2082	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.03	0.000	0.308	0.1619	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	1.44	0.021	0.103	0.3811	0.0677	0.0000	8.63E-04	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.362	0.3201	3.3365	0.0000	4.03E-03	0.0000	0.0000	3.48E-05
210	0.00	0.000	0.222	0.2825	3.0294	0.0000	3.97E-03	0.0000	0.0000	3.48E-05
211	0.00	0.000	0.120	0.2619	2.6172	0.0000	3.90E-03	0.0000	0.0000	3.48E-05
212	0.18	0.000	0.334	0.2358	2.0569	0.0000	3.79E-03	0.0000	0.0000	3.48E-05
213	0.37	0.000	0.315	0.2449	1.6020	0.0000	3.70E-03	0.0000	0.0000	3.48E-05
214	0.00	0.000	0.301	0.1942	1.0210	0.0000	3.59E-03	0.0000	0.0000	3.48E-05
215	0.00	0.000	0.155	0.1678	0.8987	0.0000	3.57E-03	0.0000	0.0000	3.48E-05
216	0.00	0.000	0.242	0.1271	0.4149	0.0000	2.63E-03	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.066	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.37	0.000	0.049	0.1692	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.46	0.000	0.167	0.2175	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.205	0.1834	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.281	0.1366	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.108	0.1185	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.015	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.000	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.000	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.000	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.000	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.000	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.17	0.000	0.061	0.1335	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.043	0.1264	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.050	0.1180	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.009	0.1165	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.002	0.1161	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.40	0.000	0.059	0.1733	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.08	0.000	0.101	0.1692	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.07	0.000	0.130	0.1587	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.128	0.1374	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.100	0.1206	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.024	0.1166	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.006	0.1162	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.001	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.25	0.000	0.040	0.1503	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.069	0.1387	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.090	0.1236	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.68	0.000	0.179	0.2077	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.33	0.000	0.104	0.2455	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	1.01	0.005	0.221	0.3754	0.7670	0.0000	2.70E-03	0.0000	0.0000	3.52E-05
248	0.00	0.000	0.287	0.3269	3.4244	0.0000	4.05E-03	0.0000	0.0000	3.52E-05
249	0.00	0.000	0.116	0.3069	3.2382	0.0000	4.01E-03	0.0000	0.0000	3.52E-05
250	1.28	0.155	0.181	0.4630	3.5178	0.0000	4.07E-03	0.0000	0.0000	3.52E-05
251	0.09	0.000	0.143	0.4541	5.9151	0.0000	4.52E-03	0.0000	0.0000	3.52E-05
252	0.08	0.000	0.109	0.4487	5.7362	0.0000	4.49E-03	0.0000	0.0000	3.52E-05
253	0.07	0.000	0.090	0.4448	5.6016	0.0000	4.46E-03	0.0000	0.0000	3.52E-05
254	0.01	0.000	0.087	0.4310	5.4410	0.0000	4.43E-03	0.0000	0.0000	3.52E-05
255	0.14	0.000	0.103	0.4358	5.2063	0.0000	4.39E-03	0.0000	0.0000	3.52E-05
256	0.00	0.000	0.337	0.3789	4.8913	0.0000	4.33E-03	0.0000	0.0000	3.52E-05
257	0.00	0.000	0.297	0.3287	3.9399	0.0000	4.15E-03	0.0000	0.0000	3.52E-05
258	0.00	0.000	0.152	0.3027	3.2625	0.0000	4.02E-03	0.0000	0.0000	3.52E-05
259	0.00	0.000	0.110	0.2836	2.9214	0.0000	3.95E-03	0.0000	0.0000	3.52E-05
260	0.00	0.000	0.175	0.2538	2.5566	0.0000	3.88E-03	0.0000	0.0000	3.52E-05
261	0.00	0.000	0.228	0.2152	1.8583	0.0000	3.75E-03	0.0000	0.0000	3.52E-05
262	0.25	0.000	0.076	0.2444	1.5124	0.0000	3.69E-03	0.0000	0.0000	3.52E-05
263	0.47	0.000	0.243	0.2824	1.2860	0.0000	3.64E-03	0.0000	0.0000	3.52E-05
264	0.03	0.000	0.237	0.2477	1.0364	0.0000	3.60E-03	0.0000	0.0000	3.52E-05
265	0.24	0.000	0.174	0.2583	0.9846	0.0000	3.59E-03	0.0000	0.0000	3.52E-05
266	0.07	0.000	0.093	0.2532	0.9674	0.0000	3.58E-03	0.0000	0.0000	3.52E-05
267	0.00	0.000	0.109	0.2343	0.9397	0.0000	3.58E-03	0.0000	0.0000	3.52E-05
268	0.35	0.000	0.206	0.2573	0.9060	0.0000	3.57E-03	0.0000	0.0000	3.52E-05
269	0.13	0.000	0.157	0.2518	0.8685	0.0000	3.57E-03	0.0000	0.0000	3.52E-05
270	0.17	0.000	0.202	0.2453	0.8322	0.0000	3.56E-03	0.0000	0.0000	3.52E-05
271	0.00	0.000	0.154	0.2190	0.7930	0.0000	3.55E-03	0.0000	0.0000	3.52E-05
272	0.00	0.000	0.158	0.1921	0.7559	0.0000	3.54E-03	0.0000	0.0000	3.52E-05

273	0.06	0.000	0.191	0.1694	0.7179	0.0000	3.54E-03	0.0000	0.0000	3.52E-05
274	0.00	0.000	0.093	0.1533	0.6001	0.0000	3.51E-03	0.0000	0.0000	3.52E-05
275	0.07	0.000	0.080	0.1505	0.3454	0.0000	3.47E-03	0.0000	0.0000	3.52E-05
276	1.66	0.044	0.195	0.3866	0.1865	0.0000	3.44E-03	0.0000	0.0000	8.06E-06
277	0.00	0.000	0.179	0.3561	3.6959	0.0000	4.10E-03	0.0000	0.0000	3.52E-05
278	0.00	0.000	0.281	0.3086	3.4953	0.0000	4.06E-03	0.0000	0.0000	3.52E-05
279	0.00	0.000	0.086	0.2935	2.9594	0.0000	3.96E-03	0.0000	0.0000	3.52E-05
280	0.00	0.000	0.159	0.2664	2.7170	0.0000	3.91E-03	0.0000	0.0000	3.52E-05
281	0.00	0.000	0.171	0.2372	2.1501	0.0000	3.81E-03	0.0000	0.0000	1.31E-05
282	0.00	0.000	0.063	0.2261	1.9071	0.0000	3.76E-03	0.0000	0.0000	0.00E+00
283	0.00	0.000	0.129	0.2039	1.6392	0.0000	3.71E-03	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.075	0.1908	1.1513	0.0000	3.62E-03	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.066	0.1791	0.9842	0.0000	3.59E-03	0.0000	0.0000	0.00E+00
286	0.14	0.000	0.060	0.1926	0.9611	0.0000	3.58E-03	0.0000	0.0000	0.00E+00
287	0.11	0.000	0.093	0.1952	0.9083	0.0000	3.57E-03	0.0000	0.0000	0.00E+00
288	0.15	0.000	0.098	0.2039	0.7967	0.0000	3.55E-03	0.0000	0.0000	0.00E+00
289	0.82	0.000	0.118	0.3206	0.6886	0.0000	3.53E-03	0.0000	0.0000	0.00E+00
290	0.51	0.000	0.179	0.3751	2.2073	0.0000	3.82E-03	0.0000	0.0000	0.00E+00
291	1.34	0.710	0.097	0.4630	5.0305	0.0000	4.35E-03	0.0000	0.0000	0.00E+00
292	0.15	0.128	0.142	0.4426	5.8038	0.0000	4.50E-03	0.0000	0.0000	0.00E+00
293	0.00	0.000	0.208	0.4073	5.1741	0.0000	4.38E-03	0.0000	0.0000	0.00E+00
294	0.00	0.000	0.058	0.3969	4.6677	0.0000	4.28E-03	0.0000	0.0000	0.00E+00
295	0.00	0.000	0.050	0.3879	4.5114	0.0000	4.25E-03	0.0000	0.0000	0.00E+00
296	0.00	0.000	0.177	0.3578	4.1771	0.0000	4.19E-03	0.0000	0.0000	0.00E+00
297	0.00	0.000	0.053	0.3484	3.8309	0.0000	4.13E-03	0.0000	0.0000	0.00E+00
298	0.00	0.000	0.045	0.3403	3.7429	0.0000	4.11E-03	0.0000	0.0000	0.00E+00
299	0.00	0.000	0.049	0.3320	3.6584	0.0000	4.09E-03	0.0000	0.0000	0.00E+00
300	0.00	0.000	0.043	0.3242	3.5252	0.0000	4.07E-03	0.0000	0.0000	0.00E+00
301	0.00	0.000	0.067	0.3123	3.2830	0.0000	4.02E-03	0.0000	0.0000	0.00E+00
302	0.00	0.000	0.067	0.3005	3.0131	0.0000	3.97E-03	0.0000	0.0000	0.00E+00
303	0.00	0.000	0.079	0.2867	2.9192	0.0000	3.95E-03	0.0000	0.0000	0.00E+00
304	0.00	0.000	0.077	0.2733	2.7610	0.0000	3.92E-03	0.0000	0.0000	0.00E+00
305	0.00	0.000	0.034	0.2669	2.5163	0.0000	3.88E-03	0.0000	0.0000	0.00E+00
306	0.00	0.000	0.026	0.2619	2.3639	0.0000	3.85E-03	0.0000	0.0000	0.00E+00
307	0.00	0.000	0.101	0.2444	2.1233	0.0000	3.80E-03	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.056	0.2344	1.9584	0.0000	3.77E-03	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.059	0.2240	1.8845	0.0000	3.76E-03	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.079	0.2101	1.6656	0.0000	3.72E-03	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.060	0.1995	1.3367	0.0000	3.65E-03	0.0000	0.0000	0.00E+00
312		0.09	0.000	0.060	0.2032	1.1041	0.0000	3.61E-03	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.027	0.1980	0.9940	0.0000	3.59E-03	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.020	0.1941	0.9738	0.0000	3.59E-03	0.0000	0.0000	0.00E+00
315	*	0.00	0.000	0.000	0.1935	0.9566	0.0000	3.58E-03	0.0000	0.0000	0.00E+00
316	*	0.00	0.000	0.000	0.1929	0.9411	0.0000	3.58E-03	0.0000	0.0000	0.00E+00
317		0.04	0.000	0.057	0.1897	0.9237	0.0000	3.58E-03	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.034	0.1835	0.9032	0.0000	3.57E-03	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.031	0.1777	0.9004	0.0000	3.57E-03	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.030	0.1721	0.9098	0.0000	3.57E-03	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.026	0.1672	0.8723	0.0000	3.57E-03	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.028	0.1620	0.7757	0.0000	3.55E-03	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.027	0.1569	0.6419	0.0000	3.52E-03	0.0000	0.0000	0.00E+00
324		0.02	0.000	0.038	0.1527	0.5154	0.0000	3.50E-03	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.025	0.1480	0.3979	0.0000	3.48E-03	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.024	0.1434	0.2810	0.0000	3.45E-03	0.0000	0.0000	0.00E+00
327	*	0.23	0.000	0.017	0.1461	0.2025	0.0000	3.44E-03	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.066	0.1675	0.1876	0.0000	3.44E-03	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.023	0.1631	0.1514	0.0000	3.43E-03	0.0000	0.0000	0.00E+00
330		0.25	0.000	0.038	0.1984	0.0891	0.0000	3.42E-03	0.0000	0.0000	0.00E+00
331	*	0.05	0.000	0.024	0.2012	0.0544	0.0000	3.41E-03	0.0000	0.0000	0.00E+00
332		0.43	0.000	0.043	0.2659	0.0366	0.0000	3.41E-03	0.0000	0.0000	0.00E+00
333		0.37	0.000	0.074	0.3145	0.7275	0.0000	3.54E-03	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.109	0.2958	1.8368	0.0000	3.75E-03	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.103	0.2780	1.9601	0.0000	3.77E-03	0.0000	0.0000	0.00E+00
336		0.00	0.000	0.062	0.2671	1.9200	0.0000	3.76E-03	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.070	0.2549	1.8791	0.0000	3.76E-03	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.033	0.2487	1.8415	0.0000	3.75E-03	0.0000	0.0000	0.00E+00
339		0.55	0.000	0.044	0.3328	1.8129	0.0000	3.74E-03	0.0000	0.0000	0.00E+00
340		0.50	0.000	0.104	0.3975	2.8919	0.0000	3.95E-03	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.093	0.3813	4.1777	0.0000	4.19E-03	0.0000	0.0000	0.00E+00
342		0.18	0.000	0.064	0.3998	4.0430	0.0000	4.17E-03	0.0000	0.0000	0.00E+00

343	*	0.19	0.000	0.025	0.4024	4.4289	0.0000	4.24E-03	0.0000	0.0000	0.00E+00
344		0.00	0.000	0.041	0.4184	4.4877	0.0000	4.25E-03	0.0000	0.0000	0.00E+00
345		0.05	0.000	0.077	0.4125	4.7456	0.0000	4.30E-03	0.0000	0.0000	0.00E+00
346		0.01	0.000	0.111	0.3949	4.6529	0.0000	4.28E-03	0.0000	0.0000	0.00E+00
347		0.17	0.000	0.080	0.4092	4.4791	0.0000	4.25E-03	0.0000	0.0000	0.00E+00
348		0.00	0.000	0.086	0.3941	4.4450	0.0000	4.24E-03	0.0000	0.0000	0.00E+00
349		0.00	0.000	0.100	0.3766	4.2316	0.0000	4.20E-03	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.048	0.3679	4.0135	0.0000	4.16E-03	0.0000	0.0000	0.00E+00
351		0.00	0.000	0.029	0.3625	3.9279	0.0000	4.14E-03	0.0000	0.0000	0.00E+00
352		0.37	0.000	0.042	0.4164	4.0022	0.0000	4.16E-03	0.0000	0.0000	0.00E+00
353	*	0.07	0.000	0.023	0.4189	4.8138	0.0000	4.31E-03	0.0000	0.0000	0.00E+00
354	*	0.03	0.000	0.023	0.4215	4.8628	0.0000	4.32E-03	0.0000	0.0000	0.00E+00
355	*	0.19	0.000	0.022	0.4241	4.9292	0.0000	4.33E-03	0.0000	0.0000	0.00E+00
356		0.00	0.000	0.034	0.4461	5.1337	0.0000	4.37E-03	0.0000	0.0000	0.00E+00
357	*	0.14	0.000	0.033	0.4486	5.6034	0.0000	4.46E-03	0.0000	0.0000	0.00E+00
358		1.05	1.042	0.000	0.4630	5.9054	0.0000	4.52E-03	0.0000	0.0000	0.00E+00
359		0.06	0.050	0.108	0.4457	5.8334	0.0000	4.50E-03	0.0000	0.0000	0.00E+00
360		1.08	0.925	0.045	0.4630	5.8920	0.0000	4.51E-03	0.0000	0.0000	0.00E+00
361		0.56	0.552	0.062	0.4532	5.9049	0.0000	4.52E-03	0.0000	0.0000	0.00E+00
362		0.08	0.000	0.093	0.4508	5.7317	0.0000	4.48E-03	0.0000	0.0000	0.00E+00
363		0.76	0.560	0.127	0.4630	5.9234	0.0000	4.52E-03	0.0000	0.0000	0.00E+00
364		0.29	0.284	0.046	0.4558	5.9299	0.0000	4.52E-03	0.0000	0.0000	0.00E+00
365	*	0.00	0.000	0.035	0.4493	5.7542	0.0000	4.49E-03	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 1			
	inches	cubic feet	percent
Precipitation	39.69	6,482,869.8	100.00
Runoff	6.174	1,008,491.8	15.56
Evapotranspiration	32.511	5,310,733.4	81.92
Percolation/Leakage through Layer 2	1.001354	163,571.2	2.52
Average Head on Top of Layer 2	1.8879	---	---
Percolation/Leakage through Layer 4	0.001495	244.3	0.00

Average Head on Top of Layer 4	0.0000	---	---
Change in Water Storage	1.0003	163,400.3	2.52
Soil Water at Start of Year	75.0722	##########	189.16
Soil Water at End of Year	76.0725	##########	191.68
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Average Annual Totals Summary

Title: NRG Limestone
Simulated on: 9/2/2025 16:28

	Average Annual Totals for Years 1 - 1*			
	(inches)	[std dev]	(cubic feet)	(percent)
Precipitation	39.69	[0]	6,482,869.8	100.00
Runoff	6.174	[0]	1,008,491.8	15.56
Evapotranspiration	32.511	[0]	5,310,733.4	81.92
Subprofile1				
Percolation/leakage through Layer 2	1.001354	[0]	163,571.2	2.52
Average Head on Top of Layer 2	1.8879		---	---
Subprofile2				
Percolation/leakage through Layer 4	0.001495	[0]	244.3	0.00
Average Head on Top of Layer 4	0.0000		---	---
Water storage				
Change in water storage	1.0003		163,400.3	2.52

* Note: Average inches are converted to volume based on the user-specified area.

Peak Values Summary

Title: NRG Limestone
Simulated on: 9/2/2025 16:28

	Peak Values for Years 1 - 1*		
	(inches)		(cubic feet)
Precipitation	1.68		273,921.2
Runoff	1.042		170,157.4
Subprofile1			
Percolation/leakage through Layer 2	0.004522		738.7
Average head on Layer 2	5.9299		
Subprofile2			
Percolation/leakage through Layer 4	0.000035		5.7539
Average head on Layer 4	0.0000		
Other Parameters			
Snow water	0.2662		43,490.1
Maximum vegetation soil water	0.4630	(vol/vol)	
Minimum vegetation soil water	0.1160	(vol/vol)	

Final Water Storage in Landfill Profile at End of Simulation Period

Title: NRG Limestone
Simulated on: 9/2/2025 16:28
Simulation period: 1 years

	Final Water Storage	
Layer	(inches)	(vol/vol)
1	2.6956	0.4493
2	7.1999	0.4000
3	56.5770	0.0786
4	9.6000	0.4000
Snow water	0.0000	---