



King County

Department of Natural Resources and Parks

Solid Waste Division

King Street Center, Suite 5701

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TTY Relay: 711

www.kingcounty.gov/solidwaste

June 23, 2023

TO: Jeromeo Cruz, Environmental Scientist III, Environmental Health Division, Public Health – Seattle and King County (PHSKC)

DS
LB

VIA: Laura Belt, P.E., Engineer Supervisor, Facility Engineering and Science Section (FESS), Solid Waste Division (SWD), Department of Natural Resources & Parks (DNRP)

DS
AM

FM: Adrienne M. Scott, Engineer III – Lead Geologist, SWD, DNRP

RE: Cedar Hills Regional Landfill Environmental Monitoring Report for the First Quarter of 2023

The purpose of this memorandum is to transmit the latest quarterly environmental report for the Cedar Hills Regional Landfill (Landfill) for your review. This report includes environmental data collected from January 01, 2023 through March 31, 2023. The report contains groundwater monitoring results and evaluations as described in *Environmental Monitoring Sampling and Analysis Plan for Cedar Hills Regional Landfill (Dec, 2013)*, storm water quality requirements under the *Industrial Stormwater General Permit*, and a compilation of other environmental data collected from the Landfill.

Also included with this submittal is a copy of the Area 5 Top Deck Monitoring Report for the First Quarter of 2023. This report addresses the activities specified in “Determination Regarding Proposed Extended Use of Temporary Cover for Cedar Hills Landfill Area 5” memorandum dated December 19, 2006.

If you have any questions, please call Laura Belt at 206-477-5215 or me at 206-263-0518.

Enclosures

cc: Alan Noell, Ph.D., P.E., Solid Waste Program, Washington State Department of Ecology
Tim O'Connor LG, LHG, Hydrogeologist 3, Solid Waste Program, Washington State Department of Ecology
Yolanda Pon, Solid Waste Program Supervisor, Public Health - Seattle and King County (PHSKC)
Glynda Steiner, P.E., CCM, Deputy Division Director, Solid Waste Division (SWD), Department of Natural Resources & Parks (DNRP)
Theresa Thurlow, P.E., Engineer Manager, SWD, DNRP
Laura Belt, P.E., Engineer Supervisor, SWD, DNRP
Kris McArthur, Engineer III, SWD, DNRP
Subrina Tahsin, Engineer II, SWD, DNRP



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June 23, 2023

Alan Noell, Ph.D., P.E.
Solid Waste Program
Washington State Department of Ecology
Northwest Regional Office
3190 – 160th Avenue SE
Bellevue, WA 98008-5452

RE: Cedar Hills Regional Landfill Environmental Quarterly Report for the First Quarter of 2023

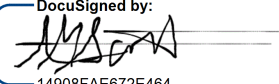
Dear Mr. Noell:

The purpose of this letter is to transmit a copy of the Solid Waste Division's Environmental Monitoring Quarterly Report for the Cedar Hills Regional Landfill (Landfill). This report includes environmental data collected from January 01, 2023 through March 31, 2023. The report contains groundwater monitoring results and evaluations as described in *Environmental Monitoring Sampling and Analysis Plan for Cedar Hills Regional Landfill* (Dec, 2013), storm water quality requirements under the Industrial Stormwater General Permit, and a compilation of other environmental data collected from the Landfill.

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Sincerely,

DocuSigned by:


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Adrienne M. Scott

Engineer III – Lead Geologist

Alan Noell
June 23, 2023
Page 2

Enclosures

cc: Alan Noell, Ph.D., P.E., Solid Waste Program, Washington State Department of Ecology
Tim O'Connor LG, LHG, Hydrogeologist 3, Solid Waste Program, Washington State Department of Ecology
Yolanda Pon, Solid Waste Program Supervisor, Public Health - Seattle and King County (PHSKC)
Jeromeo Cruz, Environmental Scientist III, Environmental Health Division, Seattle-King County Department of Public Health (SKCDPH)
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CEDAR HILLS REGIONAL LANDFILL QUARTERLY ENVIRONMENTAL MONITORING REPORT

First Quarter 2023



King County

Department of
Natural Resources and Parks
Solid Waste Division

Serving
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June 2023

www.kingcounty.gov/solidwaste



CHECKLIST FOR GROUNDWATER REPORTING

Municipal Solid Waste Landfills

WAC 173-351-415

Include a signed, completed copy of this checklist with each quarterly and annual report.

Quarterly groundwater reports shall be submitted to the jurisdictional health department and Ecology within 60 days of receipt of analytical data. Annual groundwater reports shall be submitted to the jurisdictional health department and Ecology by April 1 of each year.

1 st <input checked="" type="checkbox"/> 2 nd <input type="checkbox"/> 3 rd <input type="checkbox"/> 4 th <input type="checkbox"/> YEAR: 2023	Reference (section, subsection)	Included in this report	Location - section or appendix
<i>Quarterly Groundwater Reports: 173-351-415 (2) plus the referenced sections</i>			
Statistical calculations and summaries			
Statistical tests	420, (2)	<input checked="" type="checkbox"/>	Tables 5 & 9
Notification of statistical increase (if applicable)	430, (4)	<input checked="" type="checkbox"/>	Pages 4, 7, & 8
Notification of concentrations above Chapter 173-200 WAC criteria (if any)	430, (4)	<input checked="" type="checkbox"/>	Pages 2, 3, & 6; Tables 3 & 7
Static water level readings	415, (2)	<input checked="" type="checkbox"/>	Appendix B
Potentiometric surface elevation maps depicting flow direction	415, (2)	<input checked="" type="checkbox"/>	Appendix A
Flow rate – calculated	415, (2)	<input checked="" type="checkbox"/>	Appendix A
Cation-anion balances	430, (5a)	<input checked="" type="checkbox"/>	Tables 4 & 8
Explanation of greater than 5% (or 10%) difference if needed	430, (5a)	<input type="checkbox"/>	Pages 2, 3, & 7
Trilinear diagrams	430, (5b)	<input checked="" type="checkbox"/>	Figures 5 - 8
Leachate analyses (if sampled and tested)	415, (2)	<input checked="" type="checkbox"/>	Appendix B
Data entered into EIM database (date entered: 06/16/2023)	415, (3)	<input checked="" type="checkbox"/>	
<i>Annual Groundwater Reports: 173-351-415 (1)</i>			
Summary of statistical results and trends Descriptive statistics	415, (1) 420, (1)	<input type="checkbox"/>	
Summary of groundwater flow rate and direction for the year	415, (1)	<input type="checkbox"/>	
Copy of all potentiometric maps for the year	415, (1)	<input type="checkbox"/>	
Summary geochemical evaluation	415, (1)	<input type="checkbox"/>	
<i>For Quarterly and Annual Reports</i>			
Stamped by a licensed professional	RCW 18.220	<input type="checkbox"/>	

DocuSigned by:

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Signature of Report Author

June 29, 2023

Date

Cedar Hills Regional Landfill


Landfill

If you need this publication in an alternate format, please call the Waste 2 Resources Program at (360) 407-6900. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call 877-833-6341.

CERTIFICATION

Quarterly Report Groundwater Evaluation Report Certification

I certify in accordance with the requirements of WAC 173-351-400(c) (3), that the contents of this **Cedar Hills Regional Landfill Quarterly Environmental Monitoring Report** were prepared under my direction or supervision under a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Where applicable, some specific and related hydrogeologic portions have been duly certified by the responsible groundwater scientist. Based on my inquiry of the person(s) directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

Name: Laura Belt, P.E.	Title: Supervising Engineer, Facility Engineering and Science Section	Date: June 23, 2023
Mailing Address: Solid Waste Division King County Department of Natural Resources & Parks 201 South Jackson Street, Suite 701 Seattle, WA 98104-3855		Telephone Number: 206-477-5215
Signature: <div style="display: flex; align-items: center;"> <div style="border-left: 1px solid black; padding-left: 5px; margin-right: 10px;"> <small>DocuSigned by:</small>  <small>62EB1763091846C...</small> </div> <div> Jun 23, 2023 </div> </div>		



EXPIRES	08/10/2023
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KING COUNTY CEDAR HILLS REGIONAL LANDFILL
SUMMARY OF QUARTERLY ENVIRONMENTAL MONITORING
FIRST QUARTER OF 2023

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King County Cedar Hills Regional Landfill Summary of Quarterly Environmental Monitoring First Quarter of 2023

This summary discusses quarterly environmental monitoring results for groundwater, stormwater, and landfill gas migration monitoring for Cedar Hills Regional Landfill (CHRLF).

Environmental samples were collected and analyzed in accordance with the Environmental Monitoring Sampling and Analysis Plan for Cedar Hills Regional Landfill (Dec., 2013), (SAP), and the Quality Assurance Project Plan for Environmental Monitoring at King County Solid Waste Facilities (QAPP). These plans describe procedures and activities to obtain sufficient and representative quality data to adequately conduct environmental monitoring at the CHRLF and provide documentation.

1.0 Quarterly Results and Analysis

This Section discusses the current monitoring results and how they compare to previous results from samples collected at CHRLF.

1.1 Groundwater

Groundwater monitoring well details, locations, and monitoring status are presented in Table 1 and Figure 1. Monitoring activities for the first quarter are listed in Table 2.

1.1.1 Regional Aquifer

A refined conceptual model was developed in the *Cedar Hills Regional Landfill Site Wide Hydrogeologic Report Addendum (Dec., 2013)*. The model fits the site into its regional context of recharge and discharge, provides a detailed look at flow paths within the Regional Aquifer, and defines specific detection zones for each monitoring well. The model provides a thorough evaluation of the monitoring well coverage from the facility waste placement areas and indicates that CHRLF has a sufficient and effective monitoring well network in place. In addition, an alternate groundwater sampling frequency has been implemented for detection groundwater monitoring consistent with WAC 173-351-450 (see SAP, Table 1 and Figure 1).

Regional Aquifer analysis results for downgradient and crossgradient wells for this quarter are generally consistent with past results. Several upgradient wells continue to show elevated concentrations of several parameters; however, these parameters remain below regulatory standards and in general exhibit stability.

Groundwater elevations and potentiometric surfaces are within historical ranges and reflect seasonal responses to precipitation. The Potentiometric Surface Map and Groundwater Flow Analysis Report can be found in Appendix A. Elevations measured this quarter conform to the current hydrogeologic model.

Groundwater samples were analyzed for both dissolved and total metal fractions. However, only total metals results (per WAC 173-351-430(2)(b)(ii)) were compared to primary groundwater and drinking water quality standards, as listed in WAC 173-351-990 Appendix I and Title 40 CFR Subpart G Part 141. Dissolved iron and manganese were compared to secondary groundwater quality standards, as listed in WAC 173-351-990 Appendix II. Implementation of the most recent SAP resulted in a reduction in the total number of wells that are monitored. The remaining wells to be monitored were designated either as quarterly (all quarters of the year), or as semi-annual (second and fourth quarters of the year). This quarter, wells designated for quarterly monitoring were sampled, and are listed in Table 1.

Analytical Results

Analytical results can be viewed in Appendix B: Field and Analytical Test Results, and a discussion of groundwater criteria exceedances is below.

Exceedances of the Primary Ground Water Quality Criteria were observed for total arsenic as listed below:

	Upgradient and Crossgradient	Downgradient
Quarterly Sampled Wells	MW-59, MW-66, MW-68, MW-81, MW-83, MW-84, MW-93, MW-94, MW-113, MW-114, MW-115	MW-72, MW-74R, MW-75, MW-80, MW-85, MW-86, MW-87

Exceedances of the Secondary Ground Water Quality Criteria were observed for dissolved iron as listed below:

	Upgradient and Crossgradient	Downgradient
Quarterly Sampled Wells	MW-59, MW-68, MW-113	MW-72, MW-75, MW-80, MW-87

Exceedances of the Secondary Ground Water Quality Criteria were observed for dissolved manganese as listed below:

	Upgradient and Crossgradient	Downgradient
Quarterly Sampled Wells	MW-59, MW-68, MW-93, MW-113	MW-72, MW-75, MW-80, MW-87

Exceedances of the Primary Ground Water Quality Criteria were observed for Trichloroethene as listed below:

	Upgradient and Crossgradient	Downgradient
Quarterly Sampled Wells	MW-114*	--

*Also exceeded Primary Federal Ground Water Quality Criteria.

Primary and secondary exceedances of regulatory standards are tabulated and presented in Table 3.

Trilinear Diagrams and Ion Balance

Trilinear Diagrams (Figures 5 and 6) indicate water quality type (hydrochemical facies) based on the dissolved ion distribution. The diagrams are useful to recognize spatial and temporal variability, potential analytical error, or change in hydrochemical facies.

The upgradient and crossgradient groundwater samples generally have a nondominant cation type with bicarbonate as the dominant anion. In this sample population, the alkaline earths exceed alkalies and that the weak acids exceed strong acids, with sample composition being >80% hardness causing constituents (Calcium and Magnesium) and >65% weak acids (carbonate and bicarbonate). Ultimately, the upgradient and crossgradient samples are plotted within the magnesium bicarbonate hydrochemical facies, which is consistent with historic samples.

Downgradient groundwater samples show a slightly dominant magnesium cation type, and with the exception of well MW-87, samples have bicarbonate as the dominant anion.

Excluding well MW-87, downgradient wells show >80% calcium and magnesium as well as >55% weak acids; these wells plot within the magnesium bicarbonate hydrochemical facies, similar to the upgradient and crossgradient sample results. Monitoring well MW-87 also shows >80% calcium and magnesium, and a solution nearing 50% weak acidity; the subject well plots in a mixed type area of the diagram. All samples are plotted in zones consistent with recent trilinear diagram plots.

Data are consistent with previous quarters. Ion balance calculations (Table 4) indicate no analytical error (> 10%) in any regional wells.

Prediction Limits

Intra-well upper prediction limits (UPLs) are calculated annually and have been updated with data collected through the end of 2022. Calculated prediction limits and analytical results for Appendix I parameters are presented in Table 5 and summarized below.

	Upgradient and Cross-gradient	Downgradient
Quarterly Sampled Wells	MW-115 (total chromium), MW-113 (total zinc), MW-93 (total arsenic), MW-83 (total nickel), MW-66 (total arsenic)	MW-74R (Nitrate as N)

Monitoring well MW-67 (total arsenic, total barium, total vanadium), MW-87 (total arsenic, total barium, total vanadium), MW-75 (total Barium), MW-86 passed the retesting protocol after UPL exceedances in 4Q22.

Monitoring wells MW-93 (total Arsenic), MW-74R (nitrate as N) had 1-of-3 UPL exceedances in 1Q23.

Volatile Detections

Volatile Organic Compound (VOC) detections in upgradient and cross-gradient regional aquifer wells this quarter are presented in Table 6. There continues to be regularly occurring detections of chlorinated solvents and their breakdown products within the monitoring

network at CHRLF, all of which are associated with the upgradient Queen City Farms (QCF) Superfund site. These detections include the following:

- Cis-1,2-Dichloroethene was detected in quarterly monitored well MW-59;
- Trichloroethene (TCE) was detected in quarterly monitored wells MW-83, MW-94 and the newly installed wells MW-114 and 115.

These upgradient and cross-gradient well detections are consistent with past data including the recently installed wells (MW-114 and MW-115) and continuing migration from QCF.

No other volatile detections occurred this quarter in regional monitoring wells.

1.1.2 Perched Zones

The East Perched Zone (EPZ) is a series of localized areas east of the Main Hill exhibiting shallow subsurface saturation that appears laterally and vertically discontinuous, predominantly within till and lacustrine silts.

The South Solid Waste Area (SSWA) Perched Zone contains perched groundwater that occurs both within pockets of variable surficial deposits comprised of local alluvium, recessional outwash, and/or weathered till (shallow perched zone), and within melt-out deposits in an overall predominately lodgment till sequence (deeper perched zone).

Groundwater elevations measured during the quarter in the Perched Zones are within historical ranges. Samples were collected from sixteen EPZ monitoring wells (MW-30A, MW-47, MW-50, MW-62, MW-64, MW-102, MW-103, MW-104, MW-105, MW-107, MW-108, MW-109, MW-110, MW-111, MW-112, MW-EB6). MW-101, which monitors the SSWA Perched Zone, was also sampled. Groundwater quality data from perched zones wells collected during the first quarter of 2023 are consistent with previous samples.

MW-105

MW-105 was installed on the south side of the east leachate lagoon to have a monitoring well in the shallowest perched groundwater zone to provide early leak detection. If specific conductance shows a statistically significant increasing trend or exceeds 500 µmhos/cm specific conductance (whichever condition is triggered first), then additional sampling (per the SAP) will be conducted and results assessed with respect to potential leakage from the lagoon.

This quarter, the conductivity at MW-105 was field measured at 156.6 µmhos/cm.

Analytical Results

Exceedances of regulatory standards for the perched zone wells are tabulated and presented in Table 7. All exceedances are consistent with past analyses and known impacts. MW-109 exceeded Primary Federal Ground Water Quality Criteria for arsenic for multiple consecutive quarters; MW-47 exceeded Primary Federal Ground Water Quality Criteria for Vinyl Chloride. Exceedances for EPZ replacement monitoring wells MW-102 through MW-104 and MW-107 through MW-112 are also included in Table 7.

Trilinear Diagrams and Ion Balance

Trilinear plots for Perched Zone samples are consistent with past samples (Figures 7 and 8). Ion balance calculations (Table 8) indicate no analytical error ($> 10\%$) in any perched wells. EPZ replacement monitoring wells MW-102 through MW-104 and MW-107 to MW-112 have been added in Figure 7.

Most EPZ results show that the cation type is calcium to nondominant with bicarbonate as the dominant anion. In this sample population, the alkaline earths exceed alkalies and that the weak acids exceed strong acids, with sample composition being $>60\%$ hardness causing constituents (Calcium and Magnesium) and $>60\%$ weak acids (carbonate and bicarbonate). Most samples are plotted within the magnesium bicarbonate hydrochemical facies, which is consistent with historic samples.

Monitoring well MW-109 exhibits a dominant sodium and potassium cation and bicarbonate anion. Alkalies exceed alkaline earths, and weak acids exceed the strong acids, with the sample composition being $<10\%$ hard and $>95\%$ carbonate and bicarbonate. Since the sample has a higher ratio of weak acids to hardness, it is anticipated that the hardness will be temporary, which means demineralization may occur. The sample plots in the sodium bicarbonate hydrochemical facies, which aligns with previous sampling events.

South Solid Waste Area monitoring well MW-101 has a nondominant cation type with bicarbonate as the dominant anion. Sample composition is $>80\%$ calcium and magnesium and $>95\%$ weak acids. Ultimately the sample plots in the magnesium bicarbonate hydrochemical facies, consistent with previous results.

Ion balance calculations (Table 8) indicate no analytical error ($> 10\%$) in any perched wells.

Prediction Limits

As with the regional aquifer monitoring wells, perched zone prediction limits are derived from cumulative data through the end of 2022. Calculated prediction limits for Appendix I parameters along with analytical results are presented in Table 9.

	East Perched Zone Wells
Quarterly Sampled Wells	MW-112 (total zinc), MW-109 (total antimony, total arsenic, total cadmium, total chromium, total copper, total lead, total silver, total thallium), MW-107 (total antimony and total copper)

Volatile Detections

VOC detections in the perched zones are presented in Table 10. Multiple detections listed in the table are due to switching to Lower Limit of Quantitation (LLOQ) methodology, which lowered the detection limit for a variety of VOCs. Few detections are qualified 'JT' in Table 10. Qualifier 'JT' indicates sample result present but unquantified or in other words above the method detection limit (MDL) but below the Reporting Detection Limit (RDL).

All other analytes are consistent with past analyses and known impacts.

1.2 Stormwater

1.2.1 CHRLF ISGP

CHRLF stormwater discharge is authorized by an Industrial Stormwater General Permit (ISGP) issued by the Washington State Department of Ecology (Ecology). The permit defines discharge benchmarks, applicable to all facilities, and effluent limits, applicable specifically to landfills. These values are listed in Table 15. Sampling stations SW-N4, SW-SL3 and SW-GS1 (see Figure 2) are the designated points for comparison to permit benchmarks and effluent limits.

ISGP required monitoring activities for the first quarter of 2023 are listed in Table 12. There were no effluent limit exceedances at any sampling locations during the first quarter of 2023 (see Table 14). ISGP Discharge Monitoring Reports (DMRs) are included in Appendix B.

1.3 Landfill Gas

Compliance probes, interior probes, on-site buildings, and supplemental monitoring probe results and location maps are included in Appendix B.

1.3.1 Compliance Probe Network

A network of compliance probes is monitored for landfill gas (LFG) migration around the perimeter of the landfill. Probes are monitored by the LFG crew monthly to monitor system performance and quarterly for compliance. The location map for the compliance probes can be viewed in Figure 4 and in Appendix B. The monitoring results for the compliance probes during this quarter are located in Appendix B.

No methane exceedances were observed at any compliance probe during the first quarter of 2023.

1.3.2 Interior Probe Network

Additional probes on the landfill site, located interior to the compliance probes but outside of the waste footprint, are monitored monthly. These probes provide valuable information for optimizing the performance of the LFG collection system and help to prevent LFG migration. The location map and monitoring results for the interior probes during the first quarter of 2023 can be viewed in Appendix B.

1.3.3 On-Site Building Monitoring

As required by WAC 173-351-200, gas concentrations are monitored inside facility structures. Structures are monitored quarterly for methane. No detections of methane occurred this quarter. The location map and monitoring results for facility gas monitoring during the first quarter of 2023 are presented in Appendix B.

1.3.4 Supplemental Migration Monitoring

Detections above the regulatory limit in LFG probe GP-33C in September of 2011 prompted actions including monitoring frequency increase, operational adjustments to increase LFG recovery rates, off-site structure monitoring, and, preparation of a response plan. Operational review resulted in modifications to enhance extraction from unlined areas and under liner spaces that could potentially act as gas conveyance pathways. The plan resulted in installation of thirteen (13) borings targeting the potential zone of LFG migration in the native sediments. Eight (8) borings serve as LFG extraction wells and five (5) borings as monitoring probes. The extraction wells and migration probes are monitored twice a month.

This quarter, methane was detected at levels above the detection limit at monitoring location MGPW 1710D (6.5% volume). These readings are used to inform adjustments to adjacent extraction wells. The location map and supplemental monitoring results are included in Appendix B. Review of historical data indicates the system has been effective in controlling LFG migration to the perimeter probes.

2.0 Analytical Methods

Groundwater quality is evaluated by comparison of analysis results to regulatory standards, geochemical analysis, and statistical evaluation. Water quality analytical results for stormwater runoff discharged from the landfill site are compared to the limits set in the ISGP and CSWGP. The following is a brief description of the standards and analytical tools used to review each matrix.

2.1 Regulatory Standards

Stormwater monitoring results are compared to the ISGP Benchmark and Effluent Limits Criteria and CSWGP Benchmarks (Table 13). Groundwater monitoring results are compared to the groundwater quality criteria in WAC 173-200 (Table 15).

2.2 Trilinear Diagrams and Major Ion Balance

Geochemical data are presented on trilinear diagrams. Major cations and anions are plotted on individual triangles as percentages of total milliequivalents per liter (meq/L). These diagrams illustrate differences in major ion chemistry between groundwater samples and can be used to categorize water composition into identifiable groups or hydrochemical facies. Hydrochemical facies reflect distinct compositions of cation and anion concentrations. The value of the diagram lies in pointing out relationships that exist among individual samples. Trilinear diagrams are included with ionic balance calculations in this report. Ion balance calculations are useful for determining analytical correctness and can be of value in detecting laboratory error or variation in field sampling procedures.

2.3 Prediction Limits

A prediction limit is a statistical test that compares an analytical result to a computed limit value. The limit value is derived from past analytical results, which are considered representative historical data. A value outside of this limiting value is considered evidence that the result is not drawn from the same sample population distribution.

To evaluate the groundwater data for CHRLF, one-sided UPLs are calculated based on intra-well comparisons. Intra-well comparisons present a more conservative approach to

determining if a statistically significant release has occurred and is recommended for evaluation of detection monitoring data. In the intra-well approach, a threshold background value is set by determining an UPL. Prediction limits set a comparison threshold for background data with compliance well data and are used to determine if a sample is statistically elevated above background conditions. UPLs for the subsequent year's detection monitoring are calculated at the end of each year and incorporate the previous year's analytical results. UPLs are based on a 0.05 significance level, as approved by Ecology to be protective of human health and the environment. A 0.05 significance level indicates that at most there is a five (5) percent chance that a Type I error (false positive) will occur in the results.

The method for calculating the UPLs depends on both the type of distribution and the number of non-detects present in the background data set. UPLs for background data sets with 100 percent non-detects (NDs) are equal to the highest laboratory MDL. UPLs for background data sets with greater than 50 percent, but less than 100 percent non-detects are calculated based on the highest detected concentration for the respective data set.

Note: Although there are alternative methods for calculating UPLs for background data sets with greater than 90 percent, but less than 100 percent non-detects (e.g., Poisson's Method), the use of the highest detected concentration is generally considered the most conservative.

UPLs for background data sets with less than 50 percent non-detects are evaluated for normality. UPLs with non-parametric data sets are based on the highest detected concentration for the respective data set. UPLs for either normally distributed or transformed-normal data sets are calculated based on the following equations for calculating parametric prediction limits with retesting (*EPA Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities – Unified Guidance, 2009*):

Normal Distribution

$$\text{UPL} = \bar{x} + ks$$

or

Transformed Distribution:

$$\text{UPL} = y + \kappa s_y$$

where: x = mean of the baseline data

y = mean of the transformed data

κ = multiplier for intra-well prediction limits

s = standard deviation of baseline data

s_y = standard deviation of transformed data

For UPLs of constituents that had only ever had non-detects prior to implementing the LLOQ and are now detected, the MDL is being used until sufficient data is available to calculate at UPL.

Analytical results are compared to the respective UPLs on a quarterly/semi-annual basis, depending on the monitoring program, for Appendix I parameters. If there is an exceedance of the UPL, retesting of that analytical parameter at the respective location is required to determine if the exceedance represents a statistically significant increase over background.

A 1-of-3 retesting plan is used for any exceedances of the intra-well UPLs at CHRLF. This retesting plan provides adequate statistical power and minimizes Type II (False Negative) errors, while providing retesting that accommodates lab turnaround time, data review, and scheduling. This test is performed on parameters in WAC 173-351-990 Appendix I and is used to detect a change in the population distribution of the individual well.

2.4 Laboratory Data Quality

Laboratory analytical data is reviewed to verify meeting data quality objectives (DQOs) as defined in the QAPP. Occasionally, results identified during this process are deemed unsuitable for evaluation purposes. A summary of suspect results can be found in Table 16.

2.4.1 Lower Limit of Quantification

Changes made in accordance with federal regulations for the guidance of analytical testing methodologies covered by SW-846 (Test Methods for Evaluating Solid Waste) were implemented in 2017 by the contract laboratory. One specific effect of these changes was to replace the MDL methodology with the LLOQ methodology as the basis for determining the lowest quantitative value of an analyte that can be reported. This affected all methods covered within SW-846.

The LLOQ is a performance-based methodology that tests known standards repeatedly to create a calibration curve for a specific method. Commonly, the lowest concentration of the (linear) calibration curve is set as the LLOQ. However, in some cases the LLOQ may be greater than the baseline curve concentration due to lab specific factors such as instrument sensitivity and method analytical uncertainty.

2.4.2 Analytical Uncertainty and Data Review

An important consideration when reviewing and evaluating analytical data is to examine the uncertainty associated with the measurement of each analyte. When a UPL or groundwater quality criteria exceedance, and the detection limit are similar in magnitude, uncertainty inherent in low level concentration results can call into question the actuality of both presence and/or exceedance of the limit or criteria. This uncertainty is partly due to the ‘noise’ that is intrinsic in analytical testing methods and laboratory protocol. Arsenic exceedances in groundwater provide an example of this scenario, as the UPL and detection limits for arsenic are both typically quite low (parts per billion), as is the groundwater quality criteria. This results in the analytical measurement being evaluated to be subject to both the uncertainty within the calculation of a UPL, and the ‘noise’ of the analytical testing method, which includes both method and laboratory specific elements. These factors must be considered when performing a review or statistical evaluation of analytical data before confirmation on a UPL or groundwater quality exceedance can be determined.

3. References

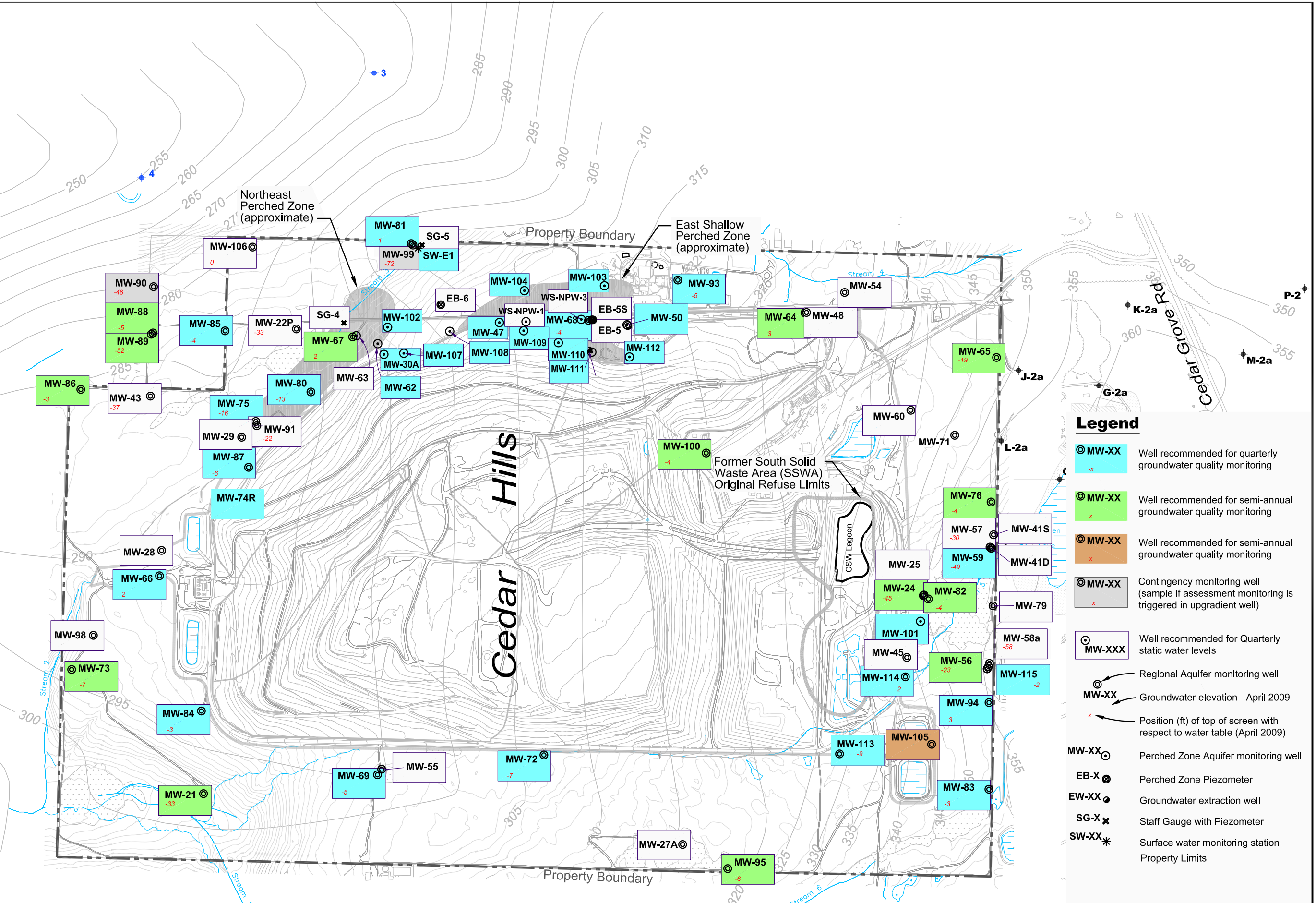
- 1) *Environmental Monitoring Sampling and Analysis Plan for Cedar Hills Regional Landfill*, December 2013 (SAP). King county, Department of Natural Resources and Parks, Solid Waste Division, prepared by Aspect Consulting LLC.
- 2) *Cedar Hills Regional Landfill Site Wide Hydrogeologic Report Addendum*, December 2013, King County, Department of Natural Resources and Parks, Solid Waste Division, prepared by Aspect Consulting LLC.
- 3) *Hills Regional Landfill – EPZ Extraction Well Decommissioning Technical Memorandum, Phase 1 – Cedar Hills Regional Landfill*, CONTRACT NO. E00286E12, Task No. 810, July 2018.
- 4) *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities – Unified Guidance*, EPA, 2009.

15-207 15-208 15-209

McDonald3 Issaquah1

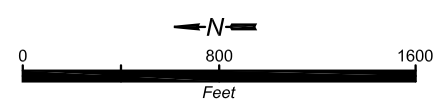
4

5



Legend

- MW-XX Well recommended for quarterly groundwater quality monitoring
- MW-XX Well recommended for semi-annual groundwater quality monitoring
- MW-XX Well recommended for semi-annual groundwater quality monitoring
- MW-XX Contingency monitoring well (sample if assessment monitoring is triggered in upgradient well)
- MW-XXX Well recommended for Quarterly static water levels
- Regional Aquifer monitoring well
- MW-XX Groundwater elevation - April 2009
- Position (ft) of top of screen with respect to water table (April 2009)
- MW-XX Perched Zone Aquifer monitoring well
- EB-X Perched Zone Piezometer
- EW-XX Groundwater extraction well
- SG-X Staff Gauge with Piezometer
- SW-XX Surface water monitoring station
- Property Limits

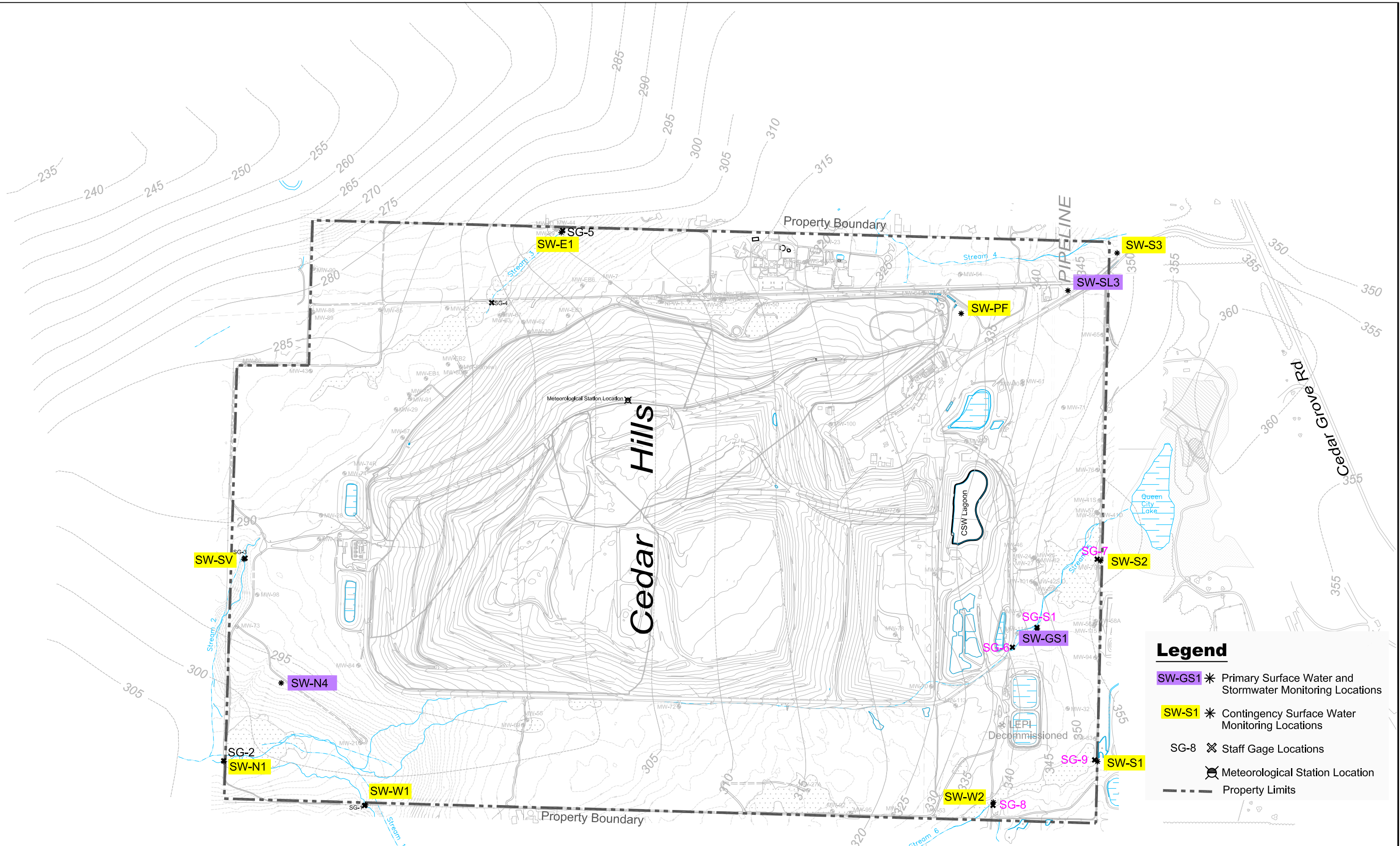


Groundwater Monitoring Network

Environmental Monitoring Sampling and Analysis Plan

Cedar Hills Regional Landfill, King County, Washington

DATE:	AUG 2020	PROJECT NO.
DESIGNED BY:		
DRAWN BY:		FIGURE NO.
REVISED BY:		



Legend

SW-GS1

*

Primary Surface Water and Stormwater Monitoring Locations

SW-S1

*

Contingency Surface Water Monitoring Locations

SG-8

⊗

Staff Gage Locations

⊗

Meteorological Station Location

Property Limits



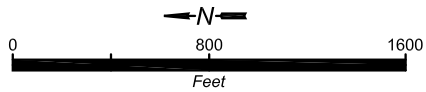
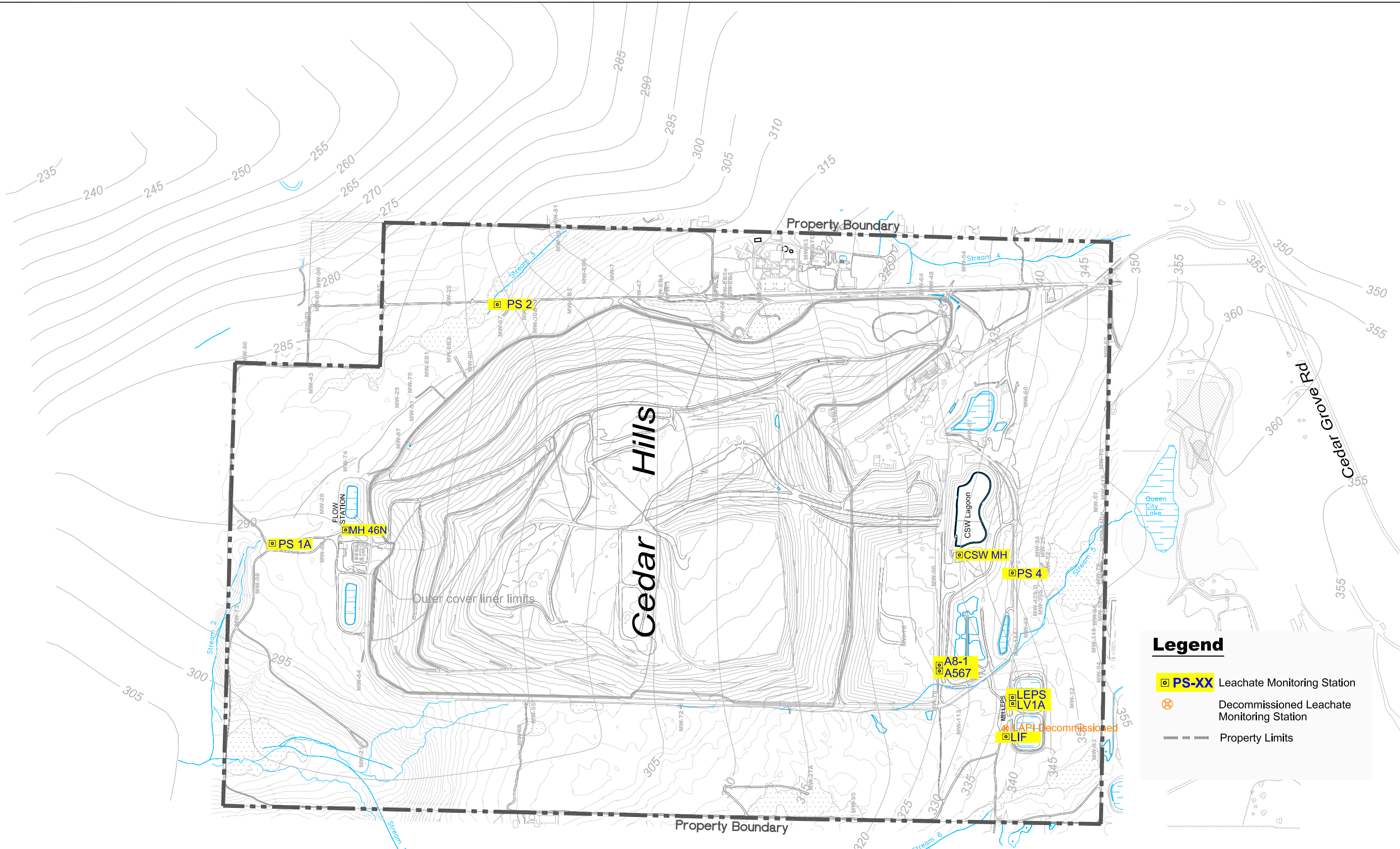
King County

Surface Water and Storm Monitoring Network

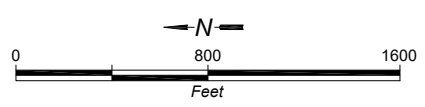
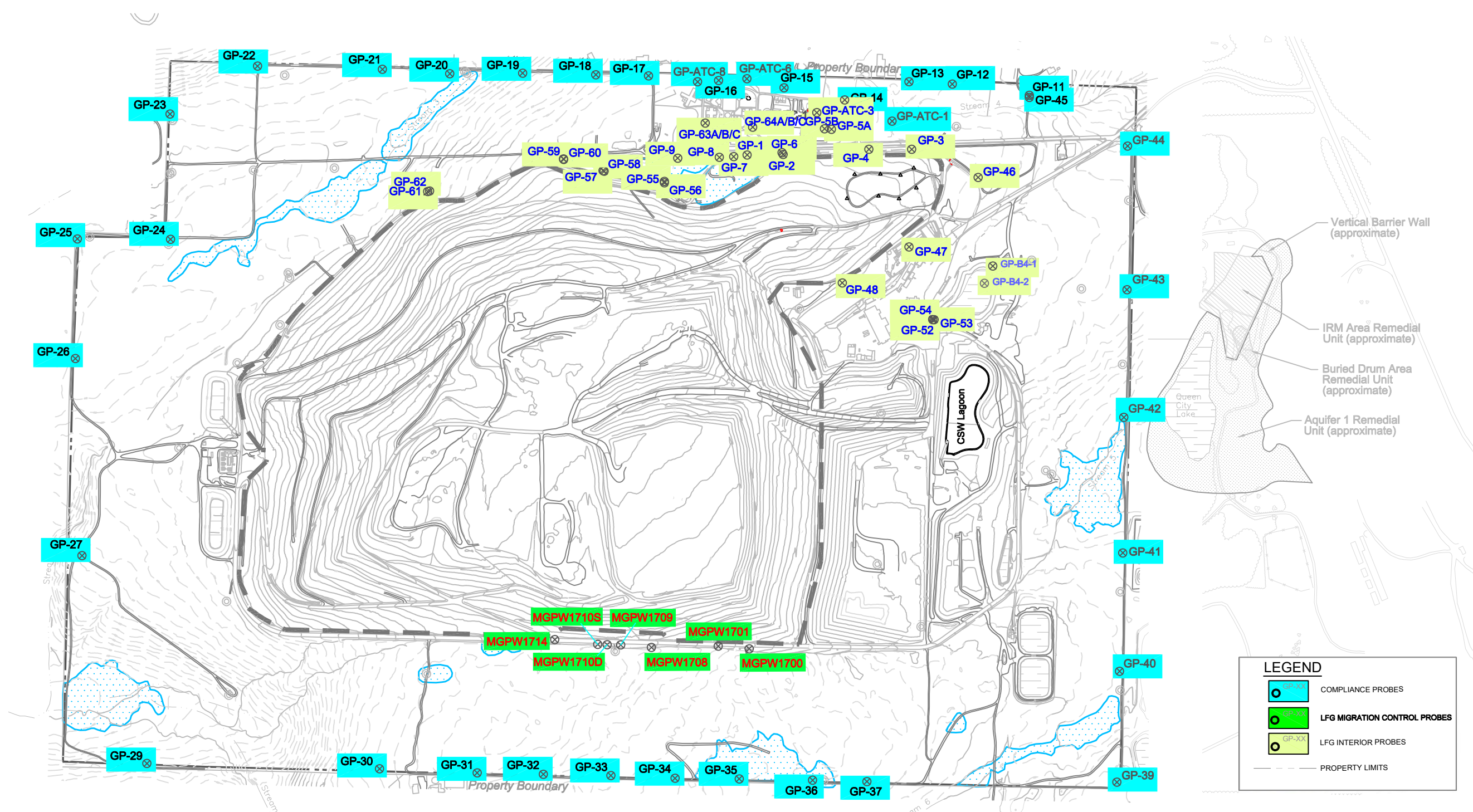
Environmental Monitoring Sampling and Analysis Plan

Cedar Hills Regional Landfill, King County, Washington

DATE:	AUG 2020	PROJECT NO.
DESIGNED BY:		
DRAWN BY:		FIGURE NO.
REVISED BY:		FIG. 2



KClOgo_v_b_m2{1}.tif	Leachate Monitoring Locations		DATE: AUG 2020	PROJECT NO.
	Environmental Monitoring Sampling and Analysis Plan		DESIGNED BY:	FIGURE NO. FIG. 3
	Cedar Hills Regional Landfill, King County, Washington		DRAWN BY:	
			REVISED BY:	




	<h2>Landfill Gas Migration Monitoring Network</h2> <p>Environmental Monitoring Sampling and Analysis Plan Cedar Hills Regional Landfill, King County, Washington</p>		DATE: AUG 2020	PROJECT NO.
			DESIGNED BY:	FIGURE NO. FIG. 4
			DRAWN BY:	
			REVISED BY:	

Table 1
CEDAR HILLS REGIONAL LANDFILL: GROUNDWATER MONITORING WELLS

Well Name	General Condition				Recommendations				
	Well Diameter (inches)	Well Depth (feet)	Installation Date	Water Table or Deep Zone	Well Monitoring Classification	Comments on Well Use	Static Water Level Monitoring Frequency	Water Quality Monitoring Frequency	Rationale
MW-21 (Upgradient)	6	163	5/17/83	Deep	Detection	Background	Quarterly	Semi-annual	Monitors background conditions of deep aquifer.
MW-22P (Downgradient)	2	284	5/25/83	Deep	Detection	WL only	Quarterly	None	Not effectively located for facilities or background monitoring.
MW-24 (Upgradient)	6	192	6/2/83	Deep	Detection	Background	Quarterly	Semi-annual	Twice-annual monitoring of QCF impacts in deep upgradient well. Monitor SWLs to define deeper Regional Aquifer flow paths.
MW 43 (Downgradient)	5	325	30/4/85	Deep	Detection	WL only	Quarterly	None	
MW-54 (Upgradient)	2	351	9/26/86	Deep	Detection	WL only	Quarterly	None	Not effectively located for facilities monitoring as it lies up gradient of the CHRLF facilities. Upgradient water quality monitored in other wells.
MW-56 (Upgradient)	2	166	10/12/88	Deep	Detection	Background	Quarterly	Semi-annual	Twice-annual monitoring of QCF impacts in upgradient well. Low groundwater velocities indicate slow movement of QCF contaminants through this area.
MW-57 (Upgradient)	2	144	8/22/88	Deep	Detection	WL only	Quarterly	None	Monitoring redundant with MW-59. Strong downward vertical gradients indicate impacts at MW-57 would also be detected at MW-59.
MW-58A (Upgradient)	2	219	9/26/88	Deep	Detection	WL only	Quarterly	None	Monitoring redundant with MW-56. Strong downward vertical gradients indicate impacts at MW-58A would also be detected at MW-56.
MW-59 (Upgradient)	2	180.5	8/16/88	Deep	Detection	Background	Quarterly	Quarterly	Quarterly monitoring of QCF impacts in upgradient well.
MW-60 (Upgradient)	2.5	240	9/13/91	Water Table	Detection	WL only	Quarterly	None	Upgradient flow from QCF in shallow Regional Aquifer characterized by MW-65 and MW-76. Downgradient area monitored by MW-100.
MW-64 (Upgradient)	2.5	274	3/22/93	Water Table	Detection		Quarterly	Semi-annual	Adjacent to SE Pit. Conversion from quarterly to semiannual sampling does not have significant effect on intrawell statistics.
MW-65 (Upgradient)	2.5	234	3/29/93	Deep	Detection	Background	Quarterly	Semi-annual	Twice-annual monitoring of QCF impacts in upgradient well. Monitor SWLs to define deeper Regional Aquifer flow paths.
MW-66 (Upgradient)	2.5	248	4/5/93	Water Table	Detection		Quarterly	Quarterly	Monitor north end leachate detention facilities.
MW-67 (Downgradient)	2.5	230	4/28/93	Water Table	Detection		Quarterly	Semi-annual	Monitors potential EPZ contaminants infiltrating into Regional Aquifer.
MW-68 (Cross-Gradient/ Downgradient)	2.5	353	4/15/93	Water Table	Detection		Quarterly	Quarterly	Well is completed adjacent to unlined Main Hill where downward flow from Main Hill and impacted EPZ would be captured. Monitors Main Hill gas effected area.
MW-69 (Downgradient)	2.5	371	4/23/93	Water Table	Detection	WL only	Quarterly	Quarterly	West side flow converges in this area and well is upgradient of key downgradient wells.
MW-72 (Downgradient)	2.5	376	8/7/98	Water Table	Detection		Quarterly	Quarterly	Key water quality monitoring well for southwest landfill area.
MW-73 (Upgradient)	4	206	9/3/99	Water Table	Detection	Background	Quarterly	Semi-annual	Background water quality monitoring for northwest facility area. Downgradient flow paths from well largely by-pass facility so provides only general indication of background conditions.
MW-74R (Downgradient)	4	249	11/1/00	Water Table	Detection		Quarterly	Quarterly	Detection zone monitors north end facilities. Quarterly monitoring recommended due to elevated chloride.
MW-75 (Downgradient)	4	269	9/24/99	Deep	Detection		Quarterly	Quarterly	Key downgradient monitoring well.
MW-76 (Upgradient)	4	148	10/25/99	Water Table	Detection	Background	Quarterly	Semi-annual	Monitor QCF impacts effecting upgradient water quality in shallow portion of Regional Aquifer. Low groundwater velocities (0.014 ft/day) indicate slow movement of QCF contaminants through this area. Travel distance for 180 days is estimated at 2.5 ft indicating any releases would be detected with 6 month sample interval. Comparison of annual and semiannual statistics indicates semiannual sampling does not have significant effect on trend analysis. Additional demonstration for reduction in water quality sampling frequency is presented in Appendix F.
MW-80 (Downgradient)	4	259	2/27/01	Water Table	Detection		Quarterly	Quarterly	Key downgradient monitoring well for monitoring impacts from unlined Main Hill and EPZ.

Table 1
CEDAR HILLS REGIONAL LANDFILL: GROUNDWATER MONITORING WELLS

Well Name	General Condition				Recommendations				
	Well Diameter (inches)	Well Depth (feet)	Installation Date	Water Table or Deep Zone	Well Monitoring Classification	Comments on Well Use	Static Water Level Monitoring Frequency	Water Quality Monitoring Frequency	Rationale
MW-81 (Upgradient)	4	192	10/3/02	Water Table	Detection		Quarterly	Quarterly	Monitors GW quality from off-site area east of facility. Retain as monitoring point for potential LFG impacts to GW. Key well for defining potentiometric divide on east side.
MW-82 (Upgradient)	4	133	11/2/00	Water Table	Detection	Background	Quarterly	Semi-annual	Twice-annual monitoring of QCF impacts in shallow Regional upgradient well. Low groundwater velocities indicate slow movement of QCF contaminants through this area.
MW-83 (Upgradient)	4	154	10/27/00	Water Table	Detection	Background	Quarterly	Quarterly	Quarterly monitoring of QCF impacts in shallow Regional upgradient well.
MW-84 (Upgradient)	4	246	10/20/00	Water Table	Detection	Background	Quarterly	Quarterly	Monitor background conditions in shallow regional aquifer
MW-85 (Downgradient)	4	257	12/1/00	Water Table	Detection		Quarterly	Quarterly	Key downgradient monitoring well with large detection zone underlying waste placement areas. Located in area of convergent GW flow and near center of high transmissivity channel.
MW-86 (Downgradient)	4	259	12/12/00	Water Table	Detection		Quarterly	Semi-annual	Provides monitoring of north end facilities. Conversion from quarterly to semiannual sampling does not have significant effect on intrawell statistics.

Table 1
CEDAR HILLS REGIONAL LANDFILL: GROUNDWATER MONITORING WELLS

Well Name	General Condition				Recommendations				
	Well Diameter (inches)	Well Depth (feet)	Installation Date	Water Table or Deep Zone	Well Monitoring Classification	Comments on Well Use	Static Water Level Monitoring Frequency	Water Quality Monitoring Frequency	Rationale
MW-87 (Downgradient)	4	261	11/21/00	Water Table	Detection		Quarterly	Quarterly	Key downgradient monitoring well.
MW-88 (Downgradient)	4	239	9/13/01	Water Table	Detection		Quarterly	Semi-annual	Provides limited monitoring of north end facilities. Conversion from quarterly to semiannual sampling does not have significant effect on intrawell statistics.
MW-89 (Downgradient)	4	291	11/12/01	Deep	Detection		Quarterly	Semi-annual	Provides limited monitoring of north end facilities in deep Regional Aquifer. Continue monitoring in place of MW-43.
MW-90 (Downgradient)	4	274	8/14/02	Deep	Assessment		Quarterly	Contingent	Water quality monitoring redundant with MW-89. Reserve as contingency well in event assessment monitoring is triggered in MW-88,89 or 85.
MW-91 (Downgradient)	6	289	10/26/01	Deep	Detection	WL only	Quarterly	None	Large diameter well used for testing. Redundant with well MW-75.
MW-93 (Cross Gradient)	4	320	6/24/02	Water Table	Detection		Quarterly	Quarterly	Well monitors the Main Hill gas affected area.
MW-94 (Upgradient)	4	145	7/2/02	Water Table	Detection	Background	Quarterly	Quarterly	Quarterly monitoring of QCF impacts in shallow Regional upgradient well.
MW-95 (Cross Gradient)	4	263	7/22/02	Water Table	Detection		Quarterly	Semi-annual	Monitor off-site water quality at southwest end of facility. Downgradient flow paths poorly defined and may by-pass facility.
MW-99 (Upgradient)	4	279	8/30/02	Deep	Assessment		Quarterly	Contingent	Monitors easterly upgradient water quality from offsite. Reserve as contingency well in event assessment monitoring is triggered in MW-81.
MW-100 (Downgradient)	4	300	8/26/02	Water Table	Detection		Quarterly	Semi-annual	Well useful for flowpath and geochemical modeling. Assists in tracking QCF contaminant migration through facility.
MW-106 (Cross gradient)	4	203	2/19/09	Water Table	Detection	WL only	Quarterly	None	Defines east side flow paths.
MW-113 (Upgradient)	4	220	4/03/20	Water Table	Detection		Quarterly	Quarterly	New monitoring well as of 2nd quarter 2020
MW-114 (Upgradient)	4	150	4/10/20	Water Table	Detection	Background	Quarterly	Quarterly	New monitoring well as of 2nd quarter 2020
MW-115 (Upgradient)	4	145	4/14/20	Water Table	Detection	Background	Quarterly	Quarterly	New monitoring well as of 2nd quarter 2020
NPW1	8	382	8/22/1990	Deep	Non-Potable	WL only	Quarterly	None	Well provides non potable water to the fire supression tank on-site
NPW3	6	376	6/5/1990	Deep	Non-Potable	WL only	Quarterly	None	Well provides non potable water to the fire supression tank on-site
East Main Hill Perched Zones									
EB-5	2	60	5/06/90	EPZ	Assessment	WL only	Quarterly	None	Monitor water levels to evaluate affect of extraction system shut down.
EB-5S	2	20	6/06/90	EPZ	Assessment	WL only	Quarterly	None	Monitor water levels to evaluate affect of extraction system shut down.
EB-6	2	30	11/28/90	EPZ	Assessment		Quarterly	Quarterly	Monitor water levels to evaluate affect of extraction system shut down. Well has limited water yield limiting ability to collect samples.
EW-25	6	36	6/10/92	EPZ	Assessment		Quarterly	Quarterly	Key EPZ compliance well. Temporary monitoring point sampled with passive diffusion sampler. Decommissioned 2nd quarter of 2018.
MW 25	3	43	3/6/83	EPZ	Assessment	WL only	Quarterly	None	
MW 27A	2	80	3/10/85	EPZ	Assessment	WL only	Quarterly	None	
MW 28	3	39	21/6/83	EPZ	Assessment	WL only	Quarterly	None	
MW 29	3	60	23/6/83	EPZ	Assessment	WL only	Quarterly	None	
MW-30A	3	35	6/09/89	EPZ	Assessment		Quarterly	Quarterly	Monitor attenuating VOCs.
MW-41S	3	51	12/7/83	EPZ	Assessment	WL only	Quarterly	None	
MW-41D	3	51	12/7/83	EPZ	Assessment	WL only	Quarterly		
MW 45	2	64	5/17/1985	EPZ	Assessment	WL only	Quarterly	None	

Table 1
CEDAR HILLS REGIONAL LANDFILL: GROUNDWATER MONITORING WELLS

Well Name	General Condition				Recommendations				
	Well Diameter (inches)	Well Depth (feet)	Installation Date	Water Table or Deep Zone	Well Monitoring Classification	Comments on Well Use	Static Water Level Monitoring Frequency	Water Quality Monitoring Frequency	Rationale
MW-47	2	44	5/31/85	EPZ	Assessment		Quarterly	Quarterly	Key EPZ compliance well.
MW 48	2	63	24/5/85	EPZ	Assessment	WL only	Quarterly	None	
MW-50	2	40	6/03/85	EPZ	Assessment		Quarterly	Quarterly	
MW 55	2	67	10/02/86	EPZ	Assessment	WL only	Quarterly	None	
MW-62	2	54	1/02/90	EPZ	Assessment		Quarterly	Quarterly	Monitor attenuating VOCs.
MW-63	2	17	12/02/90	EPZ	Assessment	WL only	Quarterly	None	Monitor water levels to evaluate affect of extraction system shut down.
MW 79	2	56	11/05/99	EPZ	Assessment	WL only	Quarterly		THIS WELL IS BROKEN; needs to be fixed. No statics are taken since it is still broken.
MW 98	2	23	3/09/01	EPZ	Assessment	WL only	Quarterly	None	
MW-102	2	50	1/27/09	EPZ	Assessment		Quarterly	Quarterly	EPZ monitoring well.
MW-103	2	35	1/28/09	EPZ	Assessment		Quarterly	Quarterly	EPZ monitoring well.
MW-104	2	32	1/29/09	EPZ	Assessment		Quarterly	Quarterly	EPZ monitoring well.
MW-107	2	39	6/07/18	EPZ	Assessment		Quarterly	Quarterly	EPZ monitoring well.
MW-108	2	17	6/08/18	EPZ	Assessment		Quarterly	Quarterly	EPZ monitoring well.
MW-109	2	13	6/09/18	EPZ	Assessment		Quarterly	Quarterly	EPZ monitoring well.
MW-110	2	19	6/11/18	EPZ	Assessment		Quarterly	Quarterly	EPZ monitoring well.
MW-111	2	14	6/11/18	EPZ	Assessment		Quarterly	Quarterly	EPZ monitoring well.
MW-112	2	17	6/11/18	EPZ	Assessment		Quarterly	Quarterly	EPZ monitoring well.
South Solid Waste Area Perched Zone									
MW-101	2	54	6/2/06	SSWA	Assessment		Quarterly	Quarterly	Key SSWA perched zone compliance well
MW 105	2	30	1/30/09	EPZ	Assessment	Conductance only	Quarterly	Quarterly	Well located near leachate lagoons; FE measures conductance every quarter on this well as a check of the leachate lagoons

Notes:
(1) The following wells were decommissioned: MW-70, MW-77, MW-78, MW-96, MW-97, and EW-25 as of 2019.
(2) Shallow wells are wells completed in the Regional Aquifer with the top screen slot within 10 ft of the water table. Deep wells are completed in the Regional Aquifer with the top screen slot greater than 10 ft below the water table.
(3) Water quality monitoring shading relates to Figure 2.

Abbreviations:
WL = Water Level
NA = Not Applicable
DZ = Detection Zone EPZ = East Perched Zone
SSWA = South Solid Waste Area QCF = Queen City Farms

TABLE 2
GROUNDWATER MONITORING ACTIVITIES 1st QUARTER 2023

Sample IDs and dates presented in Appendix B.

Well ID	Zone	Planned Activity	Comment
Static Water Levels	NA	Groundwater Elevation Measurement	North half of landfill.
Static Water Levels	NA	Groundwater Elevation Measurement	South half of landfill.
MW-21	Regional	Groundwater Elevation Measurement	
MW-24	Regional	Groundwater Elevation Measurement	
MW-24	Regional	Groundwater Elevation Measurement	
MW-24	Regional	Quarterly Groundwater Sampling	
MW-30A	Perched	Groundwater Elevation Measurement	
MW-30A	Perched	Groundwater Elevation Measurement	
MW-30A	Perched	Quarterly Groundwater Sampling	
MW-47	Perched	Groundwater Elevation Measurement	
MW-47	Perched	Groundwater Elevation Measurement	
MW-47	Perched	Quarterly Groundwater Sampling	
MW-50	Perched	Groundwater Elevation Measurement	
MW-56	Regional	Groundwater Elevation Measurement	
MW-56	Regional	Groundwater Elevation Measurement	
MW-56	Regional	Quarterly Groundwater Sampling	
MW-59	Regional	Groundwater Elevation Measurement	
MW-59	Regional	Groundwater Elevation Measurement	
MW-59	Regional	Quarterly Groundwater Sampling	
MW-62	Perched	Groundwater Elevation Measurement	
MW-64	Perched	Groundwater Elevation Measurement	
MW-64	Perched	Groundwater Elevation Measurement	
MW-64	Perched	Quarterly Groundwater Sampling	
MW-65	Regional	Groundwater Elevation Measurement	
MW-65	Regional	Groundwater Elevation Measurement	
MW-65	Regional	Quarterly Groundwater Sampling	
MW-66	Regional	Groundwater Elevation Measurement	
MW-66	Regional	Groundwater Elevation Measurement	
MW-66	Regional	Quarterly Groundwater Sampling	
MW-67	Regional	Groundwater Elevation Measurement	
MW-68	Regional	Groundwater Elevation Measurement	
MW-68	Regional	Groundwater Elevation Measurement	
MW-68	Regional	Quarterly Groundwater Sampling	
MW-69	Regional	Groundwater Elevation Measurement	
MW-72	Regional	Groundwater Elevation Measurement	
MW-72	Regional	Groundwater Elevation Measurement	
MW-72	Regional	Quarterly Groundwater Sampling	
MW-73	Regional	Groundwater Elevation Measurement	
MW-74R	Regional	Groundwater Elevation Measurement	
MW-74R	Regional	Groundwater Elevation Measurement	
MW-74R	Regional	Quarterly Groundwater Sampling	
MW-75	Regional	Groundwater Elevation Measurement	
MW-75	Regional	Groundwater Elevation Measurement	

TABLE 2
GROUNDWATER MONITORING ACTIVITIES 1st QUARTER 2023
Sample IDs and dates presented in Appendix B.

Well ID	Zone	Planned Activity	Comment
MW-75	Regional	Quarterly Groundwater Sampling	
MW-76	Regional	Groundwater Elevation Measurement	
MW-76	Regional	Groundwater Elevation Measurement	
MW-76	Regional	Quarterly Groundwater Sampling	
MW-80	Regional	Groundwater Elevation Measurement	
MW-80	Regional	Groundwater Elevation Measurement	
MW-80	Regional	Quarterly Groundwater Sampling	
MW-81	Regional	Groundwater Elevation Measurement	
MW-81	Regional	Groundwater Elevation Measurement	
MW-81	Regional	Quarterly Groundwater Sampling	
MW-82	Regional	Groundwater Elevation Measurement	
MW-82	Regional	Groundwater Elevation Measurement	
MW-82	Regional	Quarterly Groundwater Sampling	
MW-83	Regional	Groundwater Elevation Measurement	
MW-83	Regional	Groundwater Elevation Measurement	
MW-83	Regional	Quarterly Groundwater Sampling	
MW-84	Regional	Groundwater Elevation Measurement	
MW-84	Regional	Groundwater Elevation Measurement	
MW-84	Regional	Quarterly Groundwater Sampling	
MW-85	Regional	Groundwater Elevation Measurement	
MW-85	Regional	Groundwater Elevation Measurement	
MW-85	Regional	Quarterly Groundwater Sampling	
MW-86	Regional	Groundwater Elevation Measurement	
MW-87	Regional	Groundwater Elevation Measurement	
MW-87	Regional	Groundwater Elevation Measurement	
MW-87	Regional	Quarterly Groundwater Sampling	
MW-88	Regional	Groundwater Elevation Measurement	
MW-89	Regional	Groundwater Elevation Measurement	
MW-90	Regional	Groundwater Elevation Measurement	
MW-93	Regional	Groundwater Elevation Measurement	
MW-93	Regional	Groundwater Elevation Measurement	
MW-93	Regional	Quarterly Groundwater Sampling	
MW-94	Regional	Groundwater Elevation Measurement	
MW-94	Regional	Groundwater Elevation Measurement	
MW-94	Regional	Quarterly Groundwater Sampling	
MW-95	Regional	Groundwater Elevation Measurement	
MW-95	Regional	Groundwater Elevation Measurement	
MW-95	Regional	Quarterly Groundwater Sampling	
MW-99	Regional	Groundwater Elevation Measurement	
MW-EB6	Perched	Groundwater Elevation Measurement	
MW-EB6	Perched	Groundwater Elevation Measurement	

TABLE 2
GROUNDWATER MONITORING ACTIVITIES 1st QUARTER 2023
Sample IDs and dates presented in Appendix B.

Well ID	Zone	Planned Activity	Comment
MW-EB6	Perched	Quarterly Groundwater Sampling	
MW-100	Regional	Groundwater Elevation Measurement	
MW-101	Perched	Groundwater Elevation Measurement	
MW-101	Perched	Groundwater Elevation Measurement	
MW-101	Perched	Quarterly Groundwater Sampling	
MW-102	Perched	Groundwater Elevation Measurement	
MW-102	Perched	Groundwater Elevation Measurement	
MW-102	Perched	Quarterly Groundwater Sampling	
MW-103	Perched	Groundwater Elevation Measurement	
MW-103	Perched	Groundwater Elevation Measurement	
MW-103	Perched	Quarterly Groundwater Sampling	
MW-104	Perched	Groundwater Elevation Measurement	
MW-105	Perched	Groundwater Elevation Measurement	
MW-107	Perched	Groundwater Elevation Measurement	
MW-107	Perched	Groundwater Elevation Measurement	
MW-107	Perched	Quarterly Groundwater Sampling	
MW-108	Perched	Groundwater Elevation Measurement	
MW-109	Perched	Groundwater Elevation Measurement	
MW-109	Perched	Groundwater Elevation Measurement	
MW-109	Perched	Quarterly Groundwater Sampling	
MW-110	Perched	Groundwater Elevation Measurement	
MW-110	Perched	Groundwater Elevation Measurement	
MW-110	Perched	Quarterly Groundwater Sampling	
MW-111	Perched	Groundwater Elevation Measurement	
MW-111	Perched	Groundwater Elevation Measurement	
MW-111	Perched	Quarterly Groundwater Sampling	
MW-112	Perched	Groundwater Elevation Measurement	
MW-112	Perched	Groundwater Elevation Measurement	
MW-112	Perched	Quarterly Groundwater Sampling	
MW-113	Regional	Groundwater Elevation Measurement	
MW-113	Regional	Groundwater Elevation Measurement	
MW-113	Regional	Quarterly Groundwater Sampling	
MW-114	Regional	Groundwater Elevation Measurement	
MW-114	Regional	Groundwater Elevation Measurement	
MW-114	Regional	Quarterly Groundwater Sampling	
MW-115	Regional	Groundwater Elevation Measurement	
MW-115	Regional	Groundwater Elevation Measurement	
MW-115	Regional	Groundwater Elevation Measurement	
MW-115	Regional	Quarterly Groundwater Sampling	
MW-115	Regional	Quarterly Groundwater Sampling	

Table 3
Regional Aquifer: Summary of groundwater quality criteria exceedances
January 01, 2023 - March 31, 2023

Parameter	Units	Well ID	Sample Date	Sample ID	Sample Value
Upgradient and Crossgradient Wells					
pH (Field)	pH Units	MW-115	1/12/2023	W115230112-	6.41
		MW-94	1/17/2023	W94-230117-	6.38
		MW-83	1/17/2023	W83-230117-	6.42
Arsenic, Total	µg/L	MW-115	1/12/2023	W115230112-	0.194
		MW-114	1/12/2023	W114230112-	0.275
		MW-113	1/12/2023	W113230112-	0.625
		MW-94	1/17/2023	W94-230117-	0.126
		MW-93	1/10/2023	W93-230110-	1.59
		MW-87	3/29/2023	W87-230329-	0.742
		MW-84	1/10/2023	W84-230110-	0.328
		MW-83	1/17/2023	W83-230117-	0.371
		MW-81	1/10/2023	W81-230110-	0.545
		MW-68	3/29/2023	W68-230329-	5.7
		MW-66	1/18/2023	W66-230118-	0.741
		MW-59	1/17/2023	W59-230117-	0.463
Iron, Dissolved	µg/L	MW-113	1/12/2023	W113230112-	1450
		MW-87	3/29/2023	W87-230329-	5080
		MW-68	3/29/2023	W68-230329-	555
		MW-59	1/17/2023	W59-230117-	5020
Manganese, Dissolved	µg/L	MW-113	1/12/2023	W113230112-	401
		MW-93	1/10/2023	W93-230110-	143
		MW-87	3/29/2023	W87-230329-	518
		MW-68	3/29/2023	W68-230329-	286
		MW-59	1/17/2023	W59-230117-	113
Trichloroethene	µg/L	MW-115	1/12/2023	W115230112-	4.77
		MW-114	1/12/2023	W114230112-	9.12

Table 3
Regional Aquifer: Summary of groundwater quality criteria exceedances
January 01, 2023 - March 31, 2023

Parameter	Units	Well ID	Sample Date	Sample ID	Sample Value
Downgradient Wells					
Arsenic, Total	µg/L	MW-85	1/10/2023	W85-230110-	0.729
		MW-80	1/18/2023	W80-230118-	3.4
		MW-75	1/19/2023	W75-230119-	0.423
		MW-74R	1/11/2023	W74R230111-	0.462
		MW-72	1/9/2023	W72-230109-	0.184
Iron, Dissolved	µg/L	MW-80	1/18/2023	W80-230118-	2380
		MW-75	1/19/2023	W75-230119-	2870
		MW-72	1/9/2023	W72-230109-	2570
Manganese, Dissolved	µg/L	MW-80	1/18/2023	W80-230118-	334
		MW-75	1/19/2023	W75-230119-	217
		MW-72	1/9/2023	W72-230109-	316
See Appendix B for Data Qualifier List and Unit Definitions.					
Exceedance Criteria: WAC 173-200-040 - Water Quality Standards for Groundwaters of the State of Washington					

Table 4
Ion Balance Calculations
Cedar Hills Regional Landfill
Regional Groundwater Monitoring Wells

			Upgradient and Crossgradient Wells											
Cations	Molecular Weight	Site ID Date n	MW-59 1/17/23			MW-66 1/18/23			MW-81 1/10/23			MW-83 1/17/23		
			mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)
pH			6.6			6.8			6.9			6.4		
Conductance			211.7			185.9			151.7			601.0		
TDSobs			159.0			134.0			121.0			483.0		
Calcium	40.1	2	20.9	1.043	39.7	17.4	0.868	36.3	16.0	0.798	43.2	82.9	4.137	52.5
Magnesium	24.3	2	12.9	1.062	40.4	13.9	1.144	47.8	8.6	0.707	38.3	35.2	2.897	36.8
Potassium	39.1	1	1.23	0.031	1.20	1.15	0.029	1.23	0.90	0.023	1.24	4.09	0.105	1.33
Sodium	23.0	1	7.12	0.310	11.8	8.04	0.350	14.6	7.32	0.318	17.2	16.90	0.735	9.3
Iron	55.8	2	5.02	0.180	6.84	0.01	0.000	0.01	0.01	0.000	0.01	0.01	0.000	0.00
Manganese	54.9	2	0.11	0.004	0.156	0.00	0.000	0.000	0.00	0.000	0.001	0.01	0.000	0.005
Ammonia-N	14.0	1	0.01	0.000	0.017	0.00	0.000	0.003	0.00	0.000	0.004	0.00	0.000	0.003
Total Cations (meq/L)				2.630			2.392			1.847			7.874	
Anions														
Alkalinity, Total			79.9			87.9			60.3			257.0		
Carbonate	60.0	2	0.019	0.001	0.027	0.032	0.001	0.048	0.032	0.001	0.061	0.041	0.001	0.018
Bicarbonate	61.0	1	97.4	1.60	68.0	107.2	1.76	79.4	73.5	1.20	69.8	313.5	5.14	69.5
Chloride	35.5	1	13.8	0.389	16.6	4.4	0.123	5.6	5.2	0.146	8.5	65.7	1.853	25.1
Nitrate-N	14.0	1	0.005	0.000	0.015	0.499	0.036	1.611	1.430	0.102	5.918	1.830	0.131	1.767
Sulfate	96.1	2	17.4	0.362	15.4	14.2	0.296	13.4	13.0	0.271	15.7	12.9	0.269	3.6
Total Anions (meq/L)				2.35			2.21			1.72			7.39	
Total Ions (meq/L)				4.98			4.60			3.57			15.27	
Cation/Anion Ratio				1.12			1.08			1.07			1.07	
Percent Difference				5.63			3.90			3.42			3.16	

Table 4
Ion Balance Calculations
Cedar Hills Regional Landfill
Regional Groundwater Monitoring Wells

Cations	Molecular Weight	Site ID Date n	Upgradient Well			Downgradient Well			Upgradient Wells					
			MW-84 1/10/23			MW-93 1/10/23			MW-94 1/17/23			MW-113 1/12/23		
			mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)
pH			6.9			6.8			6.4			7.1		
Conductance			175.8			274.5			245.4			341.9		
TDSobs			132.0			203.0			191.0			259.0		
Calcium	40.1	2	16.4	0.818	36.7	31.8	1.587	45.6	29.3	1.462	47.4	39.7	1.981	45.7
Magnesium	24.3	2	12.8	1.053	47.2	17.2	1.415	40.7	13.7	1.127	36.5	21.9	1.802	41.5
Potassium	39.1	1	1.18	0.030	1.35	1.50	0.038	1.10	2.51	0.064	2.08	2.09	0.053	1.23
Sodium	23.0	1	7.59	0.330	14.8	9.82	0.427	12.3	9.94	0.432	14.0	9.99	0.435	10.0
Iron	55.8	2	0.01	0.000	0.01	0.01	0.000	0.01	0.01	0.000	0.01	1.45	0.052	1.20
Manganese	54.9	2	0.00	0.000	0.001	0.14	0.005	0.150	0.00	0.000	0.001	0.40	0.015	0.336
Ammonia-N	14.0	1	0.00	0.000	0.003	0.05	0.004	0.111	0.00	0.000	0.002	0.02	0.001	0.026
Total Cations (meq/L)				2.232			3.477			3.086			4.339	
Anions														
Alkalinity, Total			79.6			124.0			111.0			154.0		
Carbonate	60.0	2	0.034	0.001	0.055	0.046	0.002	0.046	0.016	0.001	0.018	0.122	0.004	0.098
Bicarbonate	61.0	1	97.0	1.59	76.9	151.2	2.48	74.9	135.4	2.22	76.8	187.6	3.08	74.5
Chloride	35.5	1	4.1	0.115	5.6	2.7	0.076	2.3	17.2	0.485	16.8	29.3	0.827	20.0
Nitrate-N	14.0	1	0.132	0.009	0.456	0.024	0.002	0.052	0.638	0.046	1.576	0.005	0.000	0.009
Sulfate	96.1	2	16.9	0.352	17.0	36.0	0.750	22.7	6.7	0.139	4.8	10.7	0.223	5.4
Total Anions (meq/L)				2.07			3.31			2.89			4.13	
Total Ions (meq/L)				4.30			6.78			5.98			8.47	
Cation/Anion Ratio				1.08			1.05			1.07			1.05	
Percent Difference				3.81			2.51			3.30			2.48	

Table 4
Ion Balance Calculations
Cedar Hills Regional Landfill
Regional Groundwater Monitoring Wells

Cations	Molecular Weight	Site ID Date n	Up and Crossgradient Wells						Downgradient Wells					
			MW-114 1/12/23			MW-115 1/12/23			MW-68 3/29/23			MW-72 1/9/23		
			mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)
pH			6.7			6.4			6.5			6.5		
Conductance			261.4			281.7			247.1			288.4		
TDSobs			199.0			203.0			161.0			207.0		
Calcium	40.1	2	29.5	1.472	47.6	35.4	1.766	51.0	25.3	1.262	43.5	31.8	1.587	42.1
Magnesium	24.3	2	15.1	1.243	40.2	15.5	1.275	36.8	14.2	1.169	40.2	19.9	1.638	43.5
Potassium	39.1	1	2.24	0.057	1.85	2.09	0.053	1.54	1.57	0.040	1.38	1.95	0.050	1.32
Sodium	23.0	1	7.35	0.320	10.3	8.47	0.368	10.6	9.21	0.401	13.8	8.94	0.389	10.3
Iron	55.8	2	0.01	0.000	0.01	0.01	0.000	0.01	0.56	0.020	0.68	2.57	0.092	2.44
Manganese	54.9	2	0.00	0.000	0.000	0.00	0.000	0.003	0.29	0.010	0.359	0.32	0.012	0.305
Ammonia-N	14.0	1	0.00	0.000	0.002	0.00	0.000	0.002	0.02	0.001	0.044	0.02	0.001	0.033
Total Cations (meq/L)				3.092			3.464			2.903			3.768	
Anions														
Alkalinity, Total			108.0			117.0			122.0			129.0		
Carbonate	60.0	2	0.033	0.001	0.037	0.018	0.001	0.018	0.025	0.001	0.030	0.026	0.001	0.026
Bicarbonate	61.0	1	131.7	2.16	71.6	142.7	2.34	70.9	148.8	2.44	85.8	157.3	2.58	76.7
Chloride	35.5	1	20.6	0.581	19.3	24.5	0.691	21.0	3.5	0.099	3.5	8.6	0.242	7.2
Nitrate-N	14.0	1	1.450	0.104	3.432	0.939	0.067	2.033	0.005	0.000	0.013	0.014	0.001	0.030
Sulfate	96.1	2	8.3	0.172	5.7	9.6	0.200	6.1	14.6	0.304	10.7	25.9	0.539	16.0
Total Anions (meq/L)				3.02			3.30			2.84			3.36	
Total Ions (meq/L)				6.11			6.76			5.75			7.13	
Cation/Anion Ratio				1.03			1.05			1.02			1.12	
Percent Difference				1.24			2.47			1.06			5.70	

Table 4
Ion Balance Calculations
Cedar Hills Regional Landfill
Regional Groundwater Monitoring Wells

			Downgradient Wells														
Cations	Molecular Weight	Site ID Date n	MW-74R 1/11/23			MW-75 1/19/23			MW-80 1/18/23			MW-85 1/10/23			MW-87 3/29/23		
			mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)
pH			6.6			7.0			7.1			6.8			6.6		
Conductance			482.7			342.5			280.3			328.9			496.7		
TDSobs			339.0			270.0			205.0			235.0			377.0		
Calcium	40.1	2	50.2	2.505	40.0	35.0	1.747	39.0	33.6	1.677	45.2	37.8	1.886	42.7	47.3	2.360	40.5
Magnesium	24.3	2	38.1	3.135	50.0	25.8	2.123	47.4	18.3	1.506	40.6	24.4	2.008	45.5	33.0	2.716	46.6
Potassium	39.1	1	2.16	0.055	0.88	2.05	0.052	1.17	1.73	0.044	1.19	1.78	0.046	1.03	2.39	0.061	1.05
Sodium	23.0	1	13.20	0.574	9.2	10.20	0.444	9.9	8.85	0.385	10.4	10.90	0.474	10.7	11.30	0.492	8.4
Iron	55.8	2	0.01	0.000	0.00	2.87	0.103	2.30	2.38	0.085	2.30	0.01	0.000	0.00	5.08	0.182	3.12
Manganese	54.9	2	0.00	0.000	0.000	0.22	0.008	0.176	0.33	0.012	0.328	0.00	0.000	0.000	0.52	0.019	0.323
Ammonia-N	14.0	1	0.00	0.000	0.001	0.01	0.001	0.015	0.01	0.001	0.020	0.00	0.000	0.006	0.02	0.001	0.022
Total Cations (meq/L)				6.270			4.477			3.710			4.414			5.831	
Anions																	
Alkalinity, Total			226.0			119.0			125.0			158.0			126.0		
Carbonate	60.0	2	0.059	0.002	0.033	0.067	0.002	0.054	0.101	0.003	0.100	0.064	0.002	0.052	0.030	0.001	0.018
Bicarbonate	61.0	1	275.6	4.52	75.3	145.0	2.38	58.0	152.3	2.50	74.1	192.6	3.16	77.5	153.7	2.52	44.6
Chloride	35.5	1	27.2	0.767	12.8	13.8	0.389	9.5	5.3	0.149	4.4	9.2	0.260	6.4	18.0	0.508	9.0
Nitrate-N	14.0	1	0.542	0.039	0.645	0.005	0.000	0.009	0.005	0.000	0.011	0.105	0.007	0.184	0.005	0.000	0.006
Sulfate	96.1	2	32.5	0.677	11.3	63.7	1.326	32.4	34.6	0.720	21.4	31.2	0.650	15.9	126.0	2.623	46.4
Total Anions (meq/L)				6.00			4.10			3.37			4.08			5.65	
Total Ions (meq/L)				12.27			8.57			7.08			8.49			11.48	
Cation/Anion Ratio				1.04			1.09			1.10			1.08			1.03	
Percent Difference				2.19			4.45			4.81			3.98			1.56	

Figure 5 - Trilinear Diagram
 Regional Aquifer: Upgradient and Crossgradient Wells
 First Quarter 2023

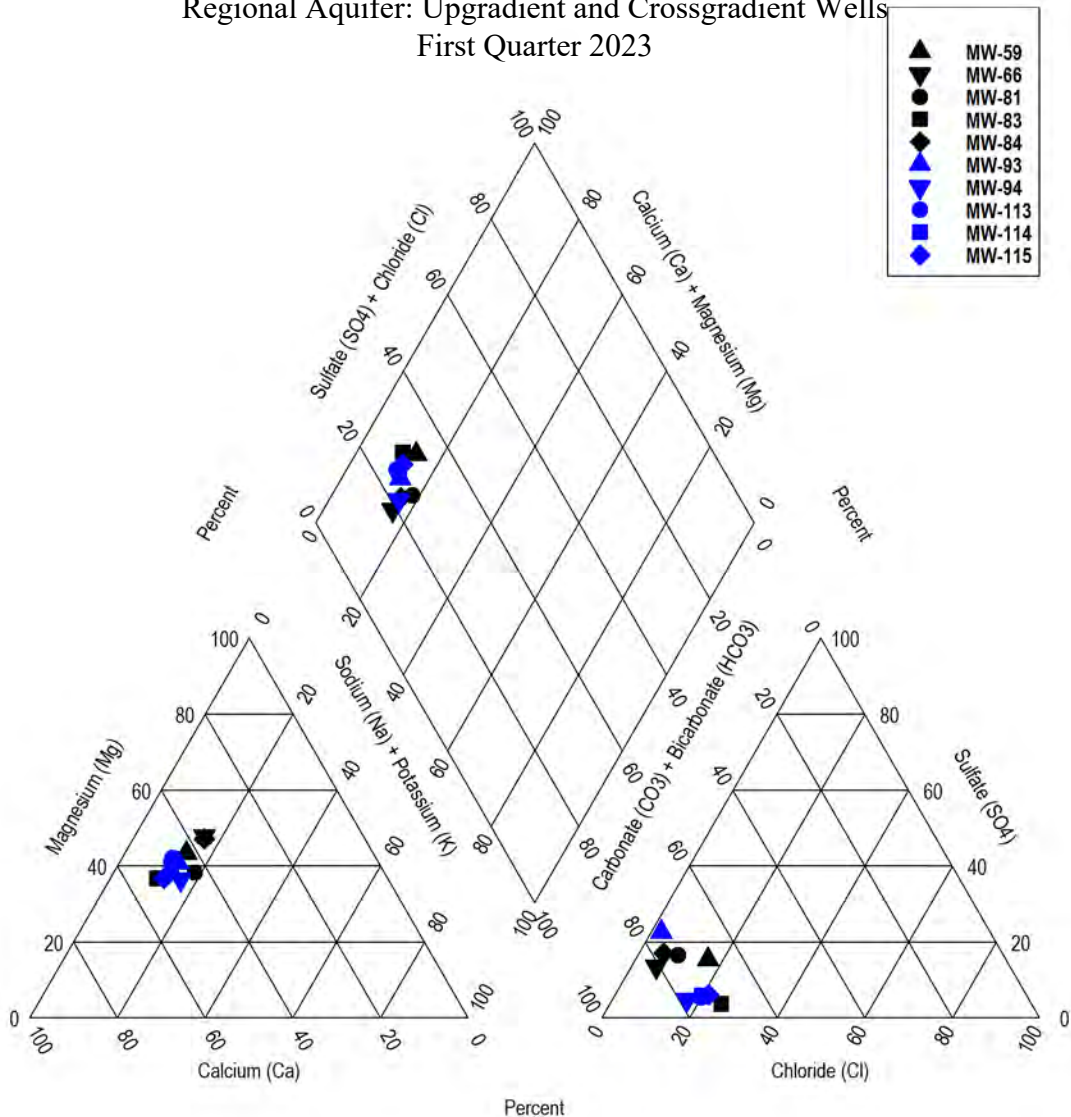


Figure 6 - Trilinear Diagram
Regional Aquifer: Downgradient Wells
First Quarter 2023

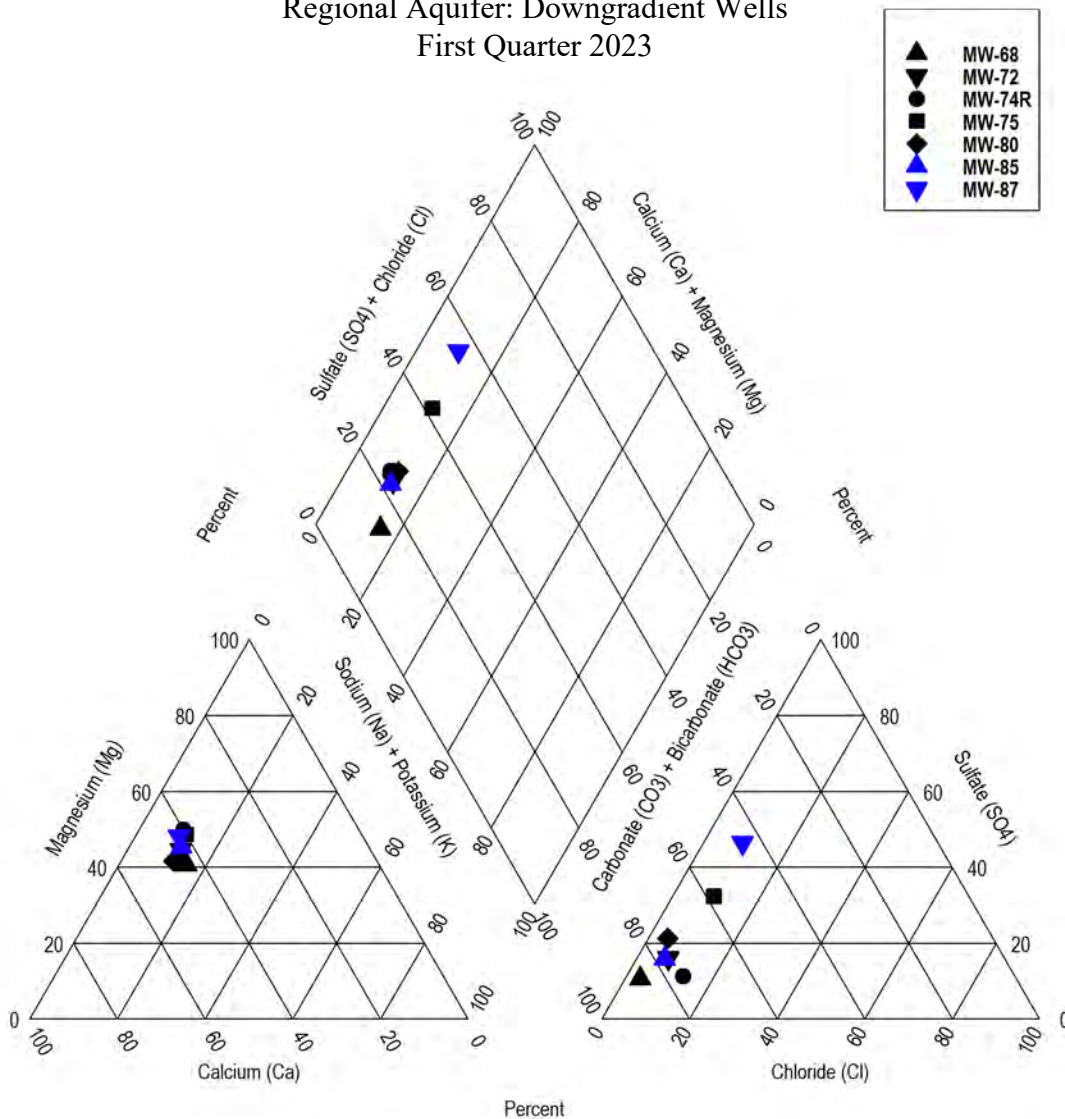


TABLE 5
Regional Aquifer Prediction Limit Values and Results
January 01, 2023 - March 31, 2023

Parameter		Total Antimony	Total Arsenic	Total Barium	Total Beryllium	Total Cadmium	Total Chromium	Total Cobalt	Total Copper	Total Lead	Total Nickel	Total Selenium	Total Silver	Total Thallium	Total Vanadium	Total Zinc	Nitrate as N	cis-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride
Well	Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L
Upgradient and Crossgradient Wells																					
MW-59	Limit	1.0	1.00	5.15	1.00	2.00	5.00	3.00	2.00	1.0	5.00	1.00	3.00	1.00	2.00	7.48	0.0492	1.43	0.2	0.2	0.02
	Result	0.3 U	0.463	4.70	0.1 U	0.05 U	0.214	0.05 U	0.2 U	0.1 U	0.18	0.5 U	0.04 U	0.075 U	0.075 U	0.79	0.01 U	1.26	0.1 U	0.1 U	0.01 DU
MW-66	Limit	1.0	0.725	6.97	1.0	2.00	5.00	3.00	4.66	1.0	5.00	1.04	3.00	1.00	1.00	4.00	0.84	0.20	0.20	0.20	0.02
	Result	0.3 U	0.741	4.23	0.1 U	0.05 U	0.2 U	0.05 U	0.2 U	0.1 U	0.21	0.90	0.04 U	0.075 U	0.76	0.83	0.50	0.1 U	0.1 U	0.1 U	0.01 DU
MW-81	Limit	1.0	0.625	4.87	1.0	2.00	5.00	3.00	2.00	1.0	5.00	1.04	3.00	1.00	2.53	8.95	1.73	0.20	0.20	0.20	0.02
	Result	0.3 U	0.545	3.63	0.1 U	0.05 U	0.2 U	0.05 U	0.32	0.1 U	0.24	0.77	0.04 U	0.075 U	1.62	2.43	1.43	0.1 U	0.1 U	0.1 U	0.01 DU
MW-83	Limit	1.0	0.500	12.94	1.0	2.00	62.80	1.50	7.71	1.0	6.21	1.00	3.00	1.00	1.15	4.00	5.13	0.20	0.20	2.78	0.02
	Result	0.3 U	0.371	12.40	0.1 U	0.05 U	0.40	0.28	3.10	0.1 U	6.25	0.5 U	0.04 U	0.075 U	0.90	0.85	1.83	0.1 U	0.1 U	1.98	0.01 DU
MW-84	Limit	1.0	0.500	5.64	1.0	2.00	5.00	3.00	2.00	1.0	8.31	0.99	3.00	1.00	1.00	19.60	0.66	0.20	0.20	0.20	0.02
	Result	0.3 U	0.328	4.88	0.1 U	0.05 U	0.2 U	0.05 U	0.2 U	0.1 U	0.39	0.5 U	0.04 U	0.075 U	0.53	10.20	0.13	0.1 U	0.1 U	0.1 U	0.01 DU
MW-93	Limit	1.0	1.522	10.80	1.0	2.00	5.00	1.50	2.00	1.0	5.00	1.00	3.00	1.00	2.65	11.20	0.05	0.20	0.20	0.20	0.02
	Result	0.3 U	1.590	7.56	0.1 U	0.05 U	0.2 U	0.08	0.45	0.1 U	0.27	0.5 U	0.04 U	0.075 U	2.17	5.76	0.024 T	0.1 U	0.1 U	0.1 U	0.01 DU
MW-94	Limit	1.0	0.500	5.42	1.0	2.00	5.00	1.50	5.10	1.0	5.00	1.00	3.00	1.00	1.39	4.00	2.56	0.20	0.20	3.48	0.02
	Result	0.3 U	0.126	2.21	0.1 U	0.05 U	0.2 U	0.13	1.50	0.1 U	0.67	0.5 U	0.04 U	0.075 U	1.17	0.5 U	0.64	0.1 U	0.1 U	1.87	0.01 DU
MW-113	Limit	1.0	0.705	3.09	0.1	0.05	0.24	0.21	0.20	0.1	0.88	0.5	0.04	0.1	0.152	0.621	0.01	0.1	0.1	0.1	0.01
	Result	0.3 U	0.625	2.99	0.1 U	0.05 U	0.2 U	0.05 U	0.2 U	0.1 U	0.32	0.5 U	0.04 U	0.075 U	0.08	2.43	0.01 U	0.1 U	0.1 U	0.1 U	0.01 DU
MW-114	Limit	1.0	0.412	3.10	0.1	0.05	0.67	21.29	0.57	0.1	0.95	0.5	0.04	0.1	1.73	1.2	2.26	0.1	0.1	12.74	0.01
	Result	0.3 U	0.275	1.69	0.1 U	0.05 U	0.244	0.171	0.207	0.1 U	0.362	0.5 U	0.04 U	0.075 U	0.81	0.5 U	1.45	0.1 U	0.1 U	9.12	0.01 DU
MW-115	Limit	1.0	0.439	1.50	0.1	0.05	0.20	0.39	0.45	0.1	1.22	0.5	0.04	0.1	0.770	0.832	3.42	0.1	0.1	5.87	0.01
	Result	0.3 U	0.194	1.41	0.1 U	0.05 U	0.239	0.05	0.30	0.1 U	0.482	0.5 U	0.04 U	0.075 U	0.56	0.74	0.94	0.1 U	0.1 U	4.77	0.01 DU
Downgradient Wells																					
MW-68	Limit	1.0	285	19.70	1.00	2.00	5.00	1.50	10.1	1.00	5.00	1.00	3.00	1.00	3.70	4.00	0.04	0.20	1.00	0.20	0.02
	Result	0.3 U	5.7	11.10	0.1 U	0.05 U	0.2 U	0.18	0.255	0.1 U	0.44	0.5 U	0.04 U	0.075 U	0.24	0.56	0.01 U	0.1 U	0.1 U	0.1 U	0.01 DU
MW-72	Limit	1.0	0.500	16.31	1.00	2.00	5.00	3.00	3.31	1.04	5.00	1.00	3.00	1.00	2.00	24.80	0.02	0.20	0.20	0.20	0.02
	Result	0.3 U	0.184	13.60	0.1 U	0.05 U	0.2 U	0.05 U	0.265	0.1 U	0.12	0.5 U	0.04 U	0.075 U	0.08	3.84	0.014 T	0.1 U	0.1 U	0.1 U	0.01 DU
MW-74R	Limit	1.0	1.450	15.79	1.00	2.00	5.00	3.00	2.00	1.00	5.00	1.04	3.00	1.00	1.12	4.00	0.49	0.20	0.20	0.20	0.02
	Result	0.3 U	0.462	13.50	0.1 U	0.05 U	0.21	0.05 U	0.26	0.1 U	1.07	0.57	0.04 U	0.075 U	0.69	0.50	0.54	0.1 U	0.1 U	0.1 U	0.01 DU
MW-75	Limit	1.0	0.603	14.39	1.00	2.00	5.00	3.00	2.00	1.00	10.00	1.00	3.00	1.00	2.00	4.00	0.03	0.20	0.20	0.20	0.02
	Result	0.3 U	0.423	14.10	0.1 U	0.05 U	0.2 U	0.05 U	0.2 U	0.1 U	0.1 U	0.5 U	0.04 U	0.075 U	0.08	0.87	0.01 U	0.1 U	0.1 U	0.1 U	0.01 DU
MW-80	Limit	1.0	39.200	23.00	1.00	2.00	5.00	3.00	2.00	1.00	10.00	1.00	3.00	1.00	2.00	11.70	0.03	0.20	1.00	0.20	0.02
	Result	0.3 U	3.400	15.30	0.1 U	0.05 U	0.2 U	0.05 U	0.2 U	0.1 U	0.1 U	0.5 U	0.04 U	0.075 U	0.09	1.10	0.01 U	0.1 U	0.1 U	0.1 U	0.01 DU
MW-85	Limit	1.0	0.756	7.90	1.00	2.00	5.00	3.00	2.00	1.00	5.00	1.35	3.00	1.00	1.07	4.00	1.63	0.20	0.20	0.20	0.02
	Result	0.3 U	0.729	7.35	0.1 U	0.05 U	0.2 U	0.05 U	0.2 U	0.1 U	0.23	0.80	0.04 U	0.075 U	0.92	0.5 U	0.105	0.1 U	0.1 U	0.1 U	0.01 DU
MW-87	Limit	1.0	25.6	39.93	1.00	2.00	5.00	1.50	3.47	1.00	5.00	1.00	3.00	1.00	4.68	8.92	0.08	0.20	0.20	0.20	0.02
	Result	0.3 U	0.742	27.5	0.1 U	0.05 U	0.2 U	0.15	0.2 U	0.1 U	0.18	0.5 U	0.04 U	0.075 U	0.075 U	0.5 U	0.01 U	0.1 U	0.1 U	0.1 U	0.01 DU

NOTE:

Results greater than Limit Value in **Bold Red**

TABLE 6
Regional Aquifer: Summary of volatile organic compound detections
January 01, 2023 - March 31, 2023

Analyte	Well ID	Date	Sample ID	Sample Value (µg/L)
Upgradient and Crossgradient Wells				
Cis- 1,2-Dichloroethene	MW-59	1/17/2023	W59-230117-	1.26
Trichloroethene	MW-115	1/12/2023	W115230112-	4.77
	MW-114	1/12/2023	W114230112-	9.12
	MW-94	1/17/2023	W94-230117-	1.87
	MW-83	1/17/2023	W83-230117-	1.98
Downgradient Wells				
No volatile organic compound detections for this Quarter				

TABLE 7
Perched Zones: Summary of groundwater quality criteria exceedances
January 01, 2023 - March 31, 2023

Parameter	Units	Well ID	Sample Date	Sample ID	Sample Value
East Perched Zone Wells					
pH (Field)	pH Units	MW-111	1/23/2023	W111230123-	5.7
		MW-110	1/19/2023	W110230119-	6.42
		MW-107	1/25/2023	W107230125-	5.88
		MW-62	1/26/2023	W62-230126-	6.27
		MW-30A	1/26/2023	W30A230126-	6.43
1,1-Dichloroethane	µg/L	MW-30A	1/26/2023	W30A230126-	1.84
Arsenic, Total	µg/L	MW-112	1/25/2023	W112230125-	3.4
		MW-111	1/23/2023	W111230123-	0.785
		MW-110	1/19/2023	W110230119-	1.86
		MW-109	1/23/2023	W109230123-	77.5
		MW-107	1/25/2023	W107230125-	0.957
		MW-103	1/25/2023	W103230125-	9.35
		MW-102	1/23/2023	W102230123-	0.37
		MW-62	1/26/2023	W62-230126-	0.249
		MW-47	1/26/2023	W47-230126-	0.804
		MW-30A	1/26/2023	W30A230126-	0.638
Iron, Dissolved	µg/L	MW-109	1/23/2023	W109230123-	20700
		MW-47	1/26/2023	W47-230126-	312
Manganese, Dissolved	µg/L	MW-112	1/25/2023	W112230125-	54
		MW-110	1/19/2023	W110230119-	2040
		MW-109	1/23/2023	W109230123-	3840
		MW-107	1/25/2023	W107230125-	545
		MW-47	1/26/2023	W47-230126-	928
Sodium	µg/L	MW-112	1/25/2023	W112230125-	29700
		MW-110	1/19/2023	W110230119-	33100
		MW-109	1/23/2023	W109230123-	1,100,000
Vinyl Chloride	µg/L	MW-110	1/19/2023	W110230119-	0.102
		MW-47	1/26/2023	W47-230126-	3.15
Benzene	µg/L	MW-109	1/23/2023	W109230123-	1.02 JT
Specific conductance, field	mg/L	MW-109	1/23/2023	W109230123-	2566
		MW-47	1/26/2023	W47-230126-	754.9
Total Dissolved Solids	mg/L	MW-109	1/23/2023	W109230123-	2590
		MW-47	1/26/2023	W47-230126-	552
Chromium	µg/L	MW-109	1/23/2023	W109230123-	244

TABLE 3.3.1.1 (continued)
Perched Zones: Summary of groundwater quality criteria exceedances
January 01, 2023 - March 31, 2023

Parameter	Units	Well ID	Sample Date	Sample ID	Sample Value
South Solid Waste Area Perched Wells					
Arsenic, Total	µg/L	MW-101	1/26/2023	W101230126-	9.05
Iron, Dissolved	µg/L	MW-101	1/26/2023	W101230126-	601

TABLE 7
Perched Zones: Summary of groundwater quality criteria exceedances
 January 01, 2023 - March 31, 2023

Parameter	Units	Well ID	Sample Date	Sample ID	Sample Value
Manganese, Dissolved	µg/L	MW-101	1/26/2023	W101230126-	915
Vinyl Chloride	µg/L	MW-101	1/26/2023	W101230126-	0.281

See Data Qualifier List for Qualifier Information.

Table 8
Ion Balance Calculations
Cedar Hills Regional Landfill
Perched Zones Groundwater Monitoring Wells

Site ID Date Cations			East Perched Zone											
			MW-30A			MW-47			MW-62			SW-E1		
			1/26/2023			1/26/2023			1/26/2023			1/18/2023		
Molecular Weight	n		mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)
pH			6.4			6.8			6.3			6.3		
Conductance			293.0			754.9			114.4			34.1		
TDSobs			222.0			552.0			96.7			45.0		
Calcium	40.1	2	34.5	1.7	43.07	114.0	5.7	51.00	13.4	0.7	49.29	4.4	0.2	52.00
Magnesium	24.3	2	18.6	1.5	38.29	54.7	4.5	40.36	3.2	0.3	19.65	1.0	0.1	18.53
Potassium	39.1	1	1.91	0.049	1.222	5.08	0.130	1.165	0.76	0.020	1.439	0.52	0.013	3.113
Sodium	23.0	1	16.0	0.696	17.41	18.1	0.787	7.06	9.2	0.402	29.60	2.5	0.108	25.49
Iron	55.8	2	0.0050	0.0002	0.0045	0.3120	0.0112	0.1002	0.0050	0.0002	0.0132	0.0931	0.0033	0.7879
Manganese	54.9	2	0.0004	0.00001	0.0004	0.9280	0.03378	0.3028	0.0005	0.00002	0.0014	0.0028	0.00010	0.0241
Ammonia-N	14.0	1	0.0010	0.0001	0.0018	0.0240	0.0017	0.0154	0.0010	0.0001	0.0053	0.0027	0.0002	0.0456
Total Cations (meq/L)				3.997			11.154			1.357			0.423	
Anions														
Alkalinity, Total			158.0			476.0			44.9			11.5		
Carbonate	60.0	2	0.026	0.001	0.023	0.198	0.007	0.064	0.005	0.000	0.013	0.001	0.000	0.012
Bicarbonate	61.0	1	192.7	3.2	86.4	580.3	9.5	92.6	54.8	0.9	69.6	14.0	0.2	66.2
Chloride	35.5	1	2.61	0.074	2.01	11.70	0.330	3.21	3.06	0.086	6.69	2.07	0.058	16.81
Nitrate-N	14.0	1	3.05	0.218	5.96	0.01	0.000	0.00	1.57	0.112	8.69	0.17	0.012	3.51
Sulfate	96.1	2	9.79	0.204	5.58	20.10	0.418	4.08	9.30	0.194	15.01	2.25	0.047	13.48
Total Anions (meq/L)				3.65			10.27			1.29			0.35	
Total Ions (meq/L)				7.65			21.42			2.65			0.77	
Cation/Anion Ratio				1.09			1.09			1.05			1.22	
Percent Difference				4.48			4.14			2.52			9.83	

Table 8
Ion Balance Calculations
Cedar Hills Regional Landfill
Perched Zones Groundwater Monitoring Wells

Site ID Date Cations			East Perched Zone											
			MW-102			MW-103			MW-107			MW-109		
			1/23/2023			1/25/2023			1/25/2023			1/23/2023		
Molecular Weight	n		mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)
pH			6.7			7.9			5.9			7.1		
Conductance			125.8			215.0			83.0			2566.0		
TDSobs			107.0			173.0			78.0			2590.0		
Calcium	40.1	2	12.8	0.6	43.41	22.7	1.1	42.59	9.3	0.5	48.30	52.2	2.6	4.50
Magnesium	24.3	2	4.8	0.4	26.96	10.2	0.8	31.56	2.8	0.2	24.26	24.7	2.0	3.51
Potassium	39.1	1	0.92	0.023	1.596	2.56	0.065	2.462	1.41	0.036	3.758	3.11	0.080	0.138
Sodium	23.0	1	9.5	0.412	28.02	14.3	0.622	23.39	4.3	0.187	19.53	1200.0	52.200	90.27
Iron	55.8	2	0.0050	0.0002	0.0122	0.0050	0.0002	0.0067	0.0943	0.0034	0.3518	20.7000	0.7413	1.2819
Manganese	54.9	2	0.0003	0.00001	0.0007	0.0007	0.00002	0.0009	0.5450	0.01984	2.0668	3.8400	0.13978	0.2417
Ammonia-N	14.0	1	0.0010	0.0001	0.0049	0.0010	0.0001	0.0027	0.2330	0.0166	1.7330	0.3860	0.0276	0.0477
Total Cations (meq/L)				1.471			2.660			0.960			57.825	
Anions														
Alkalinity, Total			53.5			115.0			26.3			2230.0		
Carbonate	60.0	2	0.017	0.001	0.040	0.597	0.020	0.754	0.001	0.000	0.005	1.611	0.054	0.119
Bicarbonate	61.0	1	65.2	1.1	73.7	139.1	2.3	86.4	32.1	0.5	62.4	2717.3	44.5	98.8
Chloride	35.5	1	4.77	0.135	9.28	4.74	0.134	5.07	1.69	0.048	5.66	3.70	0.104	0.23
Nitrate-N	14.0	1	1.36	0.097	6.70	0.03	0.002	0.08	1.46	0.104	12.38	0.05	0.004	0.01
Sulfate	96.1	2	7.13	0.148	10.24	9.78	0.204	7.72	7.89	0.164	19.51	19.20	0.400	0.89
Total Anions (meq/L)				1.45			2.64			0.84			45.10	
Total Ions (meq/L)				2.92			5.30			1.80			102.92	
Cation/Anion Ratio				1.01			1.01			1.14			1.28	
Percent Difference				0.74			0.39			6.54			12.37	

Table 8
Ion Balance Calculations
Cedar Hills Regional Landfill
Perched Zones Groundwater Monitoring Wells

Site ID Date Cations Molecular Weight n			East Perched Zone									South Solid Waste Area		
			MW-110			MW-111			MW-112			MW-101		
			1/19/2023			1/23/2023			1/25/2023			1/26/2023		
			mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)
pH			6.4			5.7			7.3			6.6		
Conductance			609.0			79.1			301.9			397.0		
TDSobs			434.0			88.0			239.0			299.0		
Calcium	40.1	2	78.3	3.9	43.07	8.8	0.4	45.94	32.4	1.6	37.49	48.2	2.4	43.33
Magnesium	24.3	2	42.2	3.5	38.28	2.6	0.2	22.39	15.6	1.3	29.76	27.9	2.3	41.36
Potassium	39.1	1	3.33	0.085	0.939	0.34	0.009	0.918	3.23	0.083	1.916	2.64	0.068	1.217
Sodium	23.0	1	35.2	1.531	16.88	6.8	0.294	30.72	30.5	1.327	30.76	16.7	0.726	13.09
Iron	55.8	2	0.0216	0.0008	0.0085	0.0050	0.0002	0.0187	0.0050	0.0002	0.0042	0.6010	0.0215	0.3877
Manganese	54.9	2	2.0400	0.07426	0.8185	0.0016	0.00006	0.0061	0.0540	0.00197	0.0456	0.9150	0.03331	0.6000
Ammonia-N	14.0	1	0.0141	0.0010	0.0111	0.0010	0.0001	0.0075	0.0143	0.0010	0.0237	0.0136	0.0010	0.0175
Total Cations (meq/L)				9.072			0.956			4.313			5.551	
Anions														
Alkalinity, Total			394.0			24.2			146.0			226.0		
Carbonate	60.0	2	0.062	0.002	0.026	0.001	0.000	0.003	0.175	0.006	0.153	0.054	0.002	0.039
Bicarbonate	61.0	1	480.6	7.9	98.1	29.5	0.5	55.4	177.8	2.9	76.6	275.6	4.5	96.5
Chloride	35.5	1	2.00	0.056	0.70	0.95	0.027	3.08	6.44	0.182	4.78	2.88	0.081	1.74
Nitrate-N	14.0	1	0.01	0.000	0.00	2.20	0.157	18.00	0.04	0.003	0.07	0.01	0.000	0.01
Sulfate	96.1	2	4.67	0.097	1.21	9.84	0.205	23.48	33.50	0.697	18.35	3.90	0.081	1.73
Total Anions (meq/L)				8.03			0.87			3.80			4.68	
Total Ions (meq/L)				17.10			1.83			8.11			10.23	
Cation/Anion Ratio				1.13			1.10			1.13			1.19	
Percent Difference				6.08			4.54			6.31			8.49	

Figure 7 - Trilinear Diagram
East Perched Zone Wells
First Quarter 2023

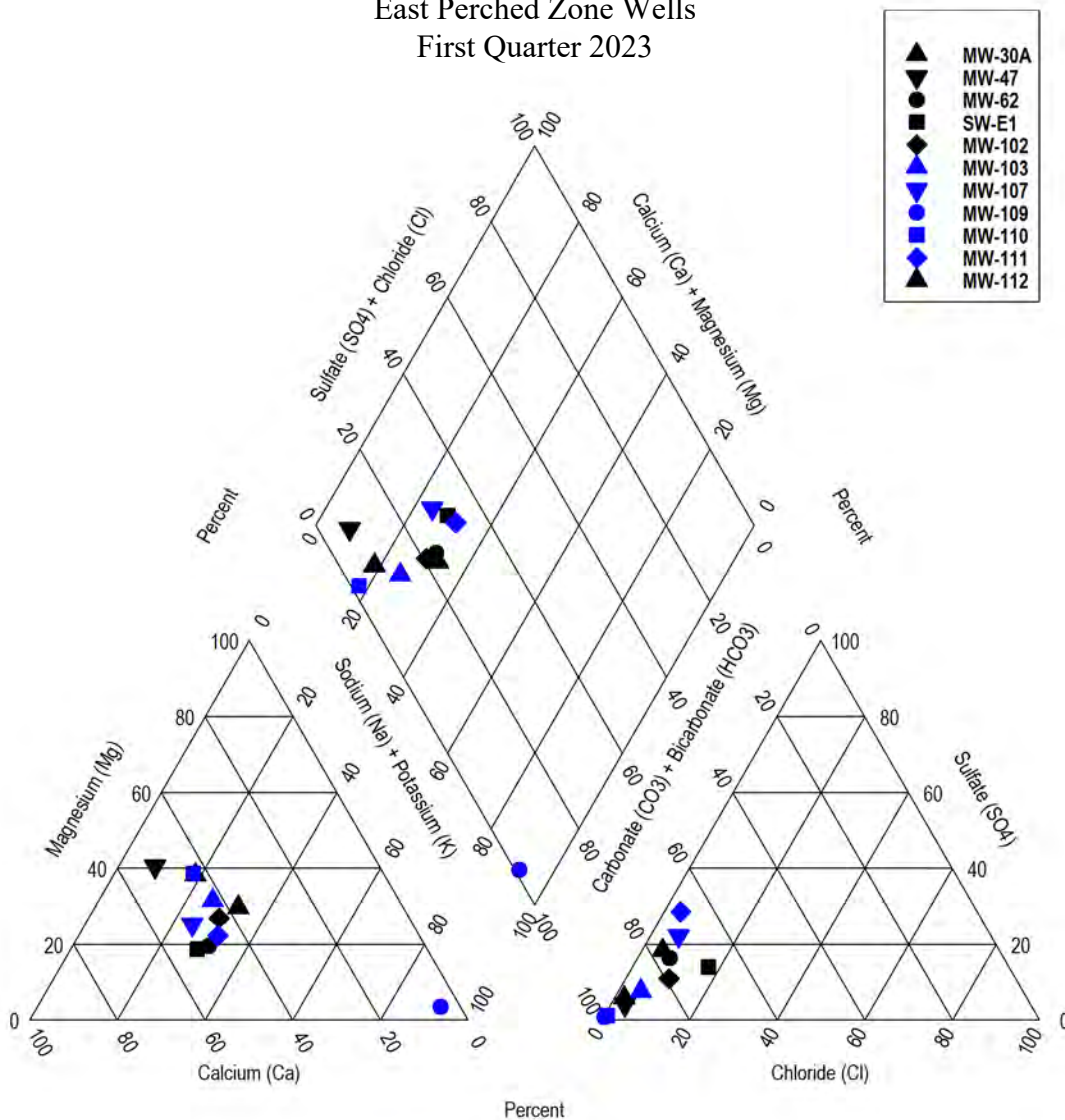


Figure 8 - Trilinear Diagram
South Solid Waste Area Perched Zone Well
First Quarter 2023

● MW-101

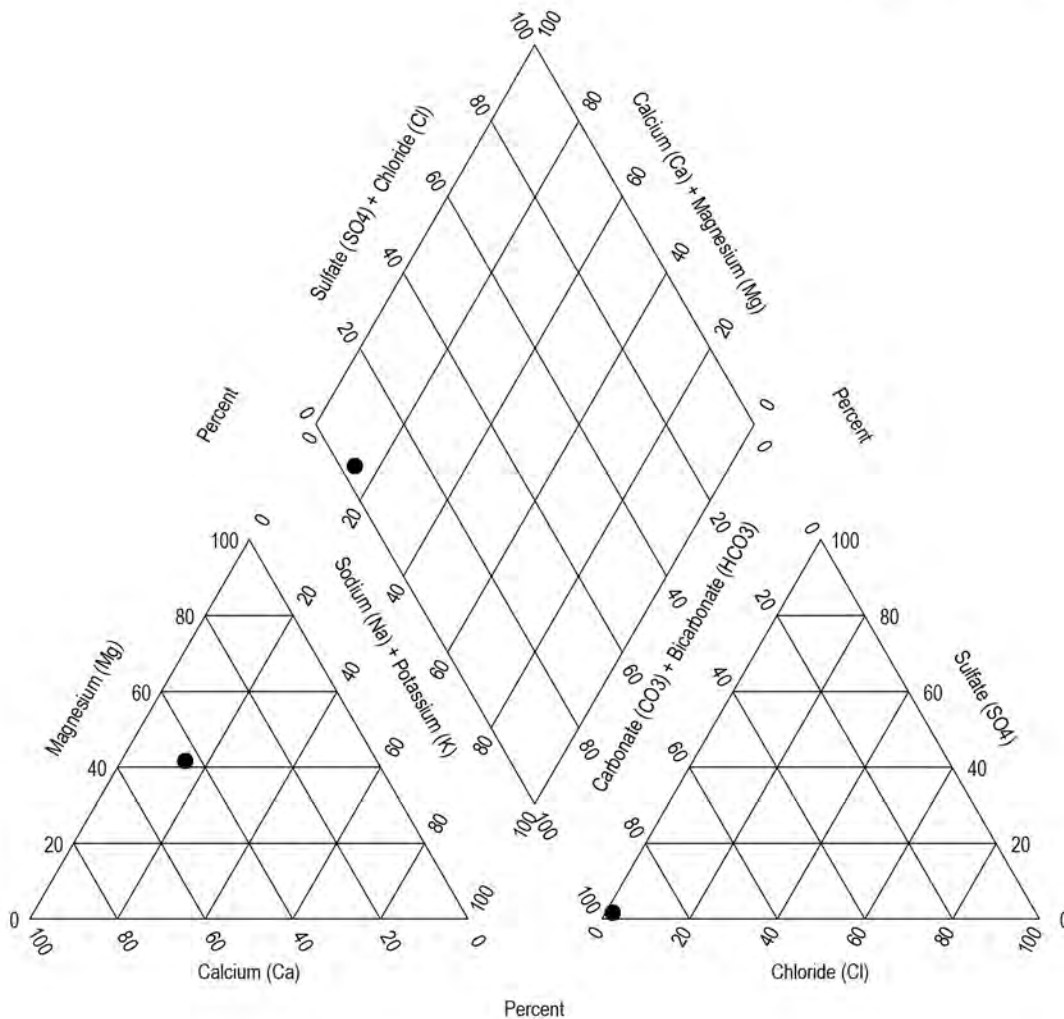


TABLE 9
Perched Aquifers Prediction Limit Values and Results
January 01, 2023 - March 31, 2023

Parameter		Total Antimony	Total Arsenic	Total Barium	Total Beryllium	Total Cadmium	Total Chromium	Total Cobalt	Total Copper	Total Lead	Total Nickel	Total Selenium	Total Silver	Total Thallium	Total Vanadium	Total Zinc
Well	Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
East Perched Zone Wells																
MW-30A	Limit	1.00	1.00	7.74	1.00	2.00	5.00	3.00	10.30	1.00	10.00	1.00	3.00	1.00	3.31	18.80
	Result	0.3 U	0.638	6.33	0.1 U	0.05 U	1.07	0.148	2.58	0.744	1.35	0.5 U	0.04 U	0.075 U	2.92	5.74
MW-47	Limit	1.00	11.30	47.04	1.00	2.00	5.00	3.00	10.50	1.43	10.00	1.00	3.00	1.00	3.17	168.00
	Result	0.3 U	0.804	29	0.1 U	0.05 U	0.2 U	0.292	0.2 U	0.1 U	1.11	0.5 U	0.04 U	0.075 U	0.45	0.5 U
MW-62*	Limit	1.00	1.00	3.49	1.00	2.00	5.00	3.00	2.00	1.00	10.00	1.00	3.00	1.00	2.12	4.00
	Result	0.3 U	0.249	2.67	0.1 U	0.05 U	0.634	0.143	0.658	0.129	0.738	0.5 U	0.04 U	0.075 U	1.18	0.957
MW-107	Limit	0.3	8.20	21.65	0.1	0.05	1.08	5.81	9.99	0.172	10.96	0.5	0.04	0.1	2.03	5.60
	Result	0.438	0.957	4.79	0.1 U	0.121	0.9	0.612	18.7	0.1 U	4.48	0.5 U	0.04 U	0.075 U	1.17	0.954
MW-109	Limit	1.32	72.11	253.03	1.44	0.25	239.71	3.44	50.92	5.42	26.83	5.17	0.2	0.5	837.15	11.31
	Result	3.04	77.5	224	1.01	0.506	244	2.51	70.6	5.59	26.3	5.06	0.405	0.759	738	9.25
MW-110	Limit	0.3	34.96	39.53	0.1	0.183	1.58	6.64	4.66	0.476	10	0.5	0.04	0.1	4.11	5.31
	Result	0.3 U	1.86	22.7	0.1 U	0.0961	0.2 U	0.957	0.85	0.1 U	6.77	0.5 U	0.04 U	0.075 U	1.22	1.65
MW-111	Limit	0.3	3.873	16.88	0.1	0.05	3.84	0.467	12.00	0.609	4.03	0.5	0.04	0.1	10.42	20.95
	Result	0.3 U	0.785	5.24	0.1 U	0.05 U	2.08	0.05	0.26	0.1 U	1.67	0.5 U	0.04 U	0.075 U	1.4	0.608
MW-112	Limit	0.3	4.33	12.00	0.1	0.05	0.753	0.138	0.282	0.1 U	0.714	0.5	0.04	0.1	1.28	0.713
	Result	0.3 U	3.4	7.73	0.1 U	0.05 U	0.348	0.05	0.2 U	0.1 U	0.319	0.5 U	0.04 U	0.075 U	1.18	1.55
South Solid Waste Area Wells																
MW-101	Limit	1.00	13.50	33.52	1.00	2.00	5.00	1.50	4.16	1.09	5.00	1.00	3.00	1.00	3.87	7.29
	Result	0.3 U	9.05	17.4	0.1 U	0.05 U	0.411	0.308	0.2 U	0.1 U	3.64	0.5 U	0.04 U	0.075 U	0.531	0.69

NOTE: MW-62 was not sampled due to DTW below pump; MW-108 was dry during 1Q23

Results greater than Limit Value in **RED Bold**

TABLE 9
Perched Aquifers Prediction Limit Values and Results
January 01, 2023 - March 31, 2023

Parameter		Nitrate as N	1,1-Dichloroethane	1,1-Dichloroethane	1,2-Dichlorobenzene	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloropropane	1,4-Dichlorobenzene	Benzene	Chlorobenzene	cis-1,2-Dichloroethene	Dichlorodifluoromethane	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Trichloroethene	Vinyl Chloride
Well	Units	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
East Perched Zone Wells																			
MW-30A	Limit	17.00	3.43	3.43	1	2.00	0.20	0.2	0.2	0.2	0.2	7.43	0.2	1	0.2	0.20	1.41	1.41	0.02
	Result	3.05	1.84	1.84	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.30	0.1 U	0.1 U	0.1 U	0.1 U	0.821	0.821	0.01 DU
MW-47	Limit	0.02	1.28	1.28	1	2.00	0.44	0.2	0.2	0.36	0.2	11.00	9.147429	1	0.2	0.41	0.23	0.23	8.44
	Result	0.01 U	0.392	0.392	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.97	2.61	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	3.15 D
MW-62*	Limit	7.11	9.89	9.89	0.2	0.20	0.20	0.2	0.2	0.2	0.2	10.09	0.2	0.2	0.518	0.20	0.32	0.32	0.02
	Result	1.57	0.225	0.225	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.415	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.01 DU
MW-107	Limit	1.65	0.1	0.1	1	2	0.1	0.1	7.90	0.64	4.13	0.347	0.162	1	0.1	0.119	0.1	0.1	2.38
	Result	1.46	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.138	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.01 DU
MW-109	Limit	0.2	1	1	10	20	1	1	2.53	2.79	2.87	1	1	10	89288.42	1	1	1	0.566
	Result	0.1	1	1	1	1	1	1	1	1.02	1	1	1	1	714	1	1	1	0.1
MW-110	Limit	0.01	0.453	0.45	1.80	2	0.458	0.365	0.362	0.577	2.05	7.96	0.1	1	0.138	0.549	0.158	0.158	0.473
	Result	0.01 U	0.266	0.266	0.718	0.1 U	0.23	0.238	0.1 U	0.367	0.756	4.52	0.1 U	0.1 U	0.1 U	0.175	0.1 U	0.1 U	0.102
MW-111	Limit	1.22	0.1	0.1	1	2	0.1	0.1	0.1	0.1	0.1	0.287	0.1	1	0.26	0.1	0.107	0.107	0.0113
	Result	2.2	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.204	0.1 U	0.1 U	0.1 U	0.1 U	0.103	0.103	0.01 DU
MW-112	Limit	0.278	0.1	0.1	1	2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.01
	Result	0.038	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.01 DU
South Solid Waste Area Wells																			
MW-101	Limit	0.06	0.20	0.2	0.2	0.20	0.23	0.2	0.2	0.2	0.2	0.28	0.2	0.2	0.2	0.20	0.20	0.2	0.78
	Result	0.01 U	0.119 JT	0.119	0.1 U	0.1 U	0.116 JT	0.1 U	0.1 U	0.1 U	0.1 U	0.21	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.281D

NOTE: MW-62 was not sampled due to DTW below pump; MW-108 was dry during 1Q23

Results greater than Limit Value in **RED Bold**

TABLE 10
Perched Zones: Summary of volatile organic compound detections
January 01, 2023 - March 31, 2023

Parameter	Well ID	Date	Sample ID	Sample Value (µg/L)
East Perched Zone				
1,1-Dichloroethane	MW-110	1/19/2023	W110230119-	0.266
	MW-62	1/26/2023	W62-230126-	0.225
	MW-47	1/26/2023	W47-230126-	0.392
	MW-30A	1/26/2023	W30A230126-	1.84
1,2-Dichlorobenzene	MW-110	1/19/2023	W110230119-	0.718
1,2-Dichloroethane	MW-110	1/19/2023	W110230119-	0.23
1,2-Dichloropropane	MW-110	1/19/2023	W110230119-	0.238
1,4-Dichlorobenzene	MW-107	1/25/2023	W107230125-	0.138 JT
Benzene	MW-110	1/19/2023	W110230119-	0.367
	MW-109	1/23/2023	W109230123-	1.02 JT
Chlorobenzene	MW-109	1/19/2023	W110230119-	0.756
Cis-1,2-Dichloroethene	MW-111	1/23/2023	W111230123-	0.204
	MW-110	1/19/2023	W110230119-	4.52
	MW-62	1/26/2023	W62-230126-	0.415
	MW-47	1/26/2023	W47-230126-	0.968
	MW-30A	1/26/2023	W30A230126-	2.3
Dichlorodifluoromethane	MW-47	1/26/2023	W47-230126-	2.61
Tetrachloroethene	MW-30A	7/26/2022	W30A220726-	0.111 JT
Toluene	MW-109	1/23/2023	W109230123-	714
Trans-1,2-Dichloroethene	MW-110	1/19/2023	W110230119-	0.175 JT
Trichloroethene	MW-111	1/23/2023	W111230123-	0.103 JT
	MW-30A	1/26/2023	W30A230126-	0.821
Vinyl Chloride	MW-110	1/19/2023	W110230119-	0.102 D
	MW-47	1/26/2023	W47-230126-	3.15 D
South Solid Waste Area				
1,1-Dichloroethane	MW-101	1/26/2023	W101230126-	0.119 JT
1,2-Dichloroethane	MW-101	1/26/2023	W101230126-	0.116 JT
Chloroethane	MW-101	1/26/2023	W101230126-	0.17 JT
Cis-1,2-Dichloroethene	MW-101	1/26/2023	W101230126-	0.206
Vinyl Chloride	MW-101	1/26/2023	W101230126-	0.281 D

See Data Qualifier List for Qualifier Information.

TABLE 11
CEDAR HILLS REGIONAL LANDFILL.
VOLATILE ORGANIC COMPOUND DETECTIONS IN BLANKS
(Data Collected from January 01, 2023 to March 31, 2023)

Analyte	Site ID	Date	Sample ID	Sample Value (mg/L)
No Field Blank Detections for 1Q2023				

Analyte	Site ID	Date	Sample ID	Sample Value (µg/L)
No Trip Field Blank Detections for 1Q2023				

See Data Qualifier List for Qualifier Information.

Analyte	Site ID	Date	Sample ID	Sample Value (µg/L)
No Method Blank Detections for 1Q2023				

See Data Qualifier List for Qualifier Information.

TABLE 12

Surface and Stormwater Monitoring Activities 1st Quarter 2023
Sample IDs and dates presented in Appendix B and Top Deck Report

Station ID	Planned Activity	Comment
SW-GS1	NPDES Permit Sample	
SW-SL3	NPDES Permit Sample	
SW-N4	NPDES Permit Sample	
SW-TD1	Top-Deck SW Monitoring	
SW-TD2	Top-Deck SW Monitoring	
SW-E1	East Perched Zone SW Monitoring	
Stream Gauges	Monthly Stream Gauge Level Measurement	
Stream Gauges	Monthly Stream Gauge Level Measurement	
Stream Gauges	Monthly Stream Gauge Level Measurement	

TABLE 13
CEDAR HILLS REGIONAL LANDFILL.
STORMWATER PERMIT BENCHMARKS AND EFFLUENT LIMITS

INDUSTRIAL STORMWATER GENERAL PERMIT
BENCHMARKS AND EFFLUENT LIMITS

Parameter	Units	Minimum Sampling Frequency	Benchmark	Effluent Limit	
				Monthly Average	Daily Maximum
pH	Std. Units	Quarterly	5.0 to 9.0	6.0 to 9.0	
Turbidity	NTU	Quarterly	25	--	--
Oil Sheen	Yes/No	Quarterly	None Visible	--	--
Copper, Total	ug/L	Quarterly	14	--	--
Zinc, Total	ug/L	Quarterly	117	110	200
BOD	mg/L	Quarterly	--	37	140
TSS	mg/L	Quarterly	--	27	88
Ammonia-N	mg/L	Quarterly	--	4.9	10
Alpha Terpineol	ug/L	Quarterly	--	16	33
Benzoic Acid	ug/L	Quarterly	--	71	120
4-Methylphenol*	ug/L	Quarterly	--	14	25
Phenol	ug/L	Quarterly	--	15	26

* Analytical result reported as the total of 3-Methylphenol (CAS RN 108-39-4) and 4-Methylphenol (CAS RN 106-44-5)

CONSTRUCTION STORMWATER GENERAL PERMIT
BENCHMARKS

Parameter	Units	Minimum Sampling Frequency	Benchmark
Turbidity	NTU	Weekly	25

TABLE 14
CEDAR HILLS REGIONAL LANDFILL
STORMWATER PERMIT CRITERIA EXCEEDANCES
January 01, 2023 - March 31, 2023

SUMMARY OF ISGP* EXCEEDANCES

Parameter	Units	Sampling Location	Date	Value	Regulatory Limit	Type
No Stormwater Exceedances for this Quarter						

*ISGP - Industrial General Stormwater Permit

Table 15
Water Quality Standards for Groundwaters of the State of Washington

		Ground Water Quality Criteria	
Analyte	CAS No.	Criterion*	
I. PRIMARY AND SECONDARY CONTAMINANTS AND RADIONUCLIDES			
A. Primary Contaminants			
Barium	7440-39-3	1	mg/L
Cadmium	7440-43-9	0.005	mg/L
Chromium	7440-47-3	0.05	mg/L
Lead	7439-92-1	0.015	mg/L
Mercury	7439-97-6	0.002	mg/L
Selenium	7782-49-2	0.01	mg/L
Silver	7440-22-4	0.05	mg/L
Fluoride	16984-48-8	4	mg/L
Nitrate	14797-55-8	10	mg/L
Endrin	72-20-8	0.2	ug/L
Methoxychlor	72-43-5	40	ug/L
1,1,1-Trichloroethane	71-55-6	200	ug/L
2,4-D	94-75-7	70	ug/L
2,4,5-TP	93-72-1	100	ug/L
Total Coliforms		1/100	mL
B. Secondary Standards			
Copper	7440-50-8	1	mg/L
Iron	7439-89-6	0.3	mg/L
Manganese	7439-96-5	0.05	mg/L
Zinc	7440-66-6	5	mg/L
Chloride	16887-00-6	250	mg/L
Sulfate	14808-79-8	250	mg/L
Total Dissolved Solids		500	mg/L
Foaming Agents		0.5	mg/L
pH	12408-02-5	6.5-8.5	units
Corrosivity		non-corrosive	
Color		15	units
Odor-Threshold		3	units
C. Radionuclides and Radioactivity			
Gross Alpha particle activity		15	pCi/L
Gross Beta particle activity		50	pCi/L
Tritium	10028-17-8	20,000	pCi/L
Strontium	7440-24-6	8	pCi/L
Radium 226 & Radium 228		5	pCi/L
Radium 226	13982-63-3	3	pCi/L
II. CARCINOGENS			
1,1-Dichloroethane	75-34-3	1	ug/L
1,2-Dichloroethane	107-06-2	0.5	ug/L
1,2-Dichloropropane	78-87-5	0.6	ug/L
1,2-Dimethylhydrazine	540-73-8	60	ug/L
1,2-Diphenylhydrazine	122-66-7	0.09	ug/L
1,3-Dichloropropene tot.	542-75-6	0.2	ug/L
1,4-Dichlorobenzene	106-46-7	4	ug/L
1,4-Dioxane	123-91-1	7	ug/L
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6	0.0000006	ug/L
2,4,6-Trichlorophenol	88-06-2	4	ug/L
2,4-Dinitrotoluene	121-14-2	0.1	ug/L
2,4-Toluediamine	95-80-7	0.002	ug/L
2,6-Dinitrotoluene	606-20-2	0.1	ug/L
2-Methoxy-5-nitroaniline	99-59-2	2	ug/L
2-Methylaniline	95-53-4	0.2	ug/L
2-Methylaniline hydrochloride	636-21-5	0.5	ug/L
3,3'-Dichlorobenzidine	91-94-1	0.2	ug/L
3,3'-Dimethoxybenzidine	119-90-4	6	ug/L
3,3-Dimethylbenzidine	119-93-7	0.007	ug/L
4,4'-Methylene bis(N,N'-dimethyl) aniline	101-61-1	2	ug/L
4-Chloro-2-methyl analine	95-69-2	0.1	ug/L
4-Chloro-2-methyl analine hydrochloride	3165-93-3	0.2	ug/L
Acrylamide	79-06-1	0.02	ug/L
Acrylonitrile	107-13-1	0.07	ug/L
Aldrin	309-00-2	0.005	ug/L
Aniline	62-53-3	14	ug/L
Aramite	140-57-8	3	ug/L
Arsenic	7440-38-2	0.00005	mg/L
Azobenzene	103-33-3	0.7	ug/L
Benzene	71-43-2	1	ug/L

Table 15
Water Quality Standards for Groundwaters of the State of Washington

Analyte	CAS No.	Ground Water Quality Criteria	
		Criterion*	
Benzidine	92-87-5	0.0004	ug/L
Benzo(a)pyrene	50-32-8	0.008	ug/L
Benzotrachloride	98-07-7	0.007	ug/L
Benzyl chloride	100-44-7	0.5	ug/L
Bis(2-ethylhexyl)phthalate	117-81-7	6	ug/L
Bis(chloroethyl)ether	111-44-4	0.07	ug/L
Bis(chloromethyl)ether	542-88-1	0.0004	ug/L
Bromodichloromethane	75-27-4	0.3	ug/L
Bromoform	75-25-2	5	ug/L
Carbazole	86-74-8	5	ug/L
Carbon Tetrachloride	56-23-5	0.3	ug/L
Chlordane	5103-71-9	0.06	ug/L
Chlorodibromomethane	124-48-1	0.5	ug/L
Chloroform	67-66-3	7	ug/L
Chlorthalonil	1897-45-6	30	ug/L
DDT (includes DDE and DDD)	50-29-3, 72-55-9, 72-54-8	0.3	ug/L
Diallate	2303-16-4	1	ug/L
Dichlorovos	62-73-7	0.3	ug/L
Dieldrin	60-57-1	0.005	ug/L
Direct Black 38	1937-37-7	0.009	ug/L
Direct Blue 6	2602-46-2	0.009	ug/L
Direct Brown 95	16071-86-6	0.009	ug/L
Epichlorohydrin	106-89-8	8	ug/L
Ethyl acrylate	140-88-5	2	ug/L
Ethylene dibromide	106-93-4	0.001	ug/L
Ethylene thiourea	96-45-7	2	ug/L
Folpet	133-07-3	20	ug/L
Furazolidone	67-45-8	0.02	ug/L
Furium	531-82-8	0.002	ug/L
Furmecyclo	60568-05-0	3	ug/L
Heptachlor	76-44-8	0.02	ug/L
Heptachlor epoxide	1024-57-3	0.009	ug/L
Hexachlorobenzene	118-74-1	0.05	ug/L
Hexachlorocyclohexane (alpha)	319-84-6	0.001	ug/L
Hexachlorocyclohexane (technical)	608-73-1	0.05	ug/L
Hexachlorodibenzo-p-dioxin, mix	34465-46-8	0.00001	ug/L
Hydrazine/hydrazine sulfate	302-01-2/10034-93-2	0.03	ug/L
Lindane	58-89-9	0.06	ug/L
Methylene Chloride	75-09-2	5	ug/L
Mirex	2385-85-5	0.05	ug/L
Nitrofurazone	59-87-0	0.06	ug/L
N-Nitrosodiethanolamine	1116-54-7	0.03	ug/L
N-Nitrosodiethylamine	55-18-5	0.0005	ug/L
N-Nitrosodimethylamine	62-75-9	0.002	ug/L
N-Nitroso-di-n-butylamine	924-16-3	0.02	ug/L
N-Nitroso-di-n-propylamine	621-64-7	0.01	ug/L
N-Nitrosodiphenylamine	86-30-6	17	ug/L
N-Nitroso-N-methylethylamine	10595-95-6	0.004	ug/L
N-Nitrosopyrrolidine	930-55-2	0.04	ug/L
o-Chloronitrobenzene	88-73-3	3	ug/L
o-Phenylenediamine	95-54-5	0.005	ug/L
o-Toluidine	95-53-4	0.2	ug/L
p,a,a,a-Tetrachlorotoluene	5216-25-1	0.004	ug/L
PAHs [Benzo(a)pyrene]		0.01	ug/L
PBBs	59536-65-1	0.01	ug/L
PCBs c	27323-18-8	0.01	ug/L
p-Chloronitrobenzene	100-00-5	5	ug/L
Propylene oxide	75-56-9]	0.01	ug/L
Tetrachloroethylene	127-18-4	0.8	ug/L
Toxaphene c	8001-35-2	0.08	ug/L
Trichloroethylene (TCE)	79-01-6	3	ug/L
Trimethyl phosphate	512-56-1	2	ug/L
Vinyl chloride	75-01-4	0.02	ug/L
NOTES: pCi/L=picocuries per liter mg/L=milligrams per liter ug/L=micrograms per liter *Ground Water Quality Criteria=173-200 WAC Water Quality Standards for Ground Waters of the State of Washington			

TABLE 16
CEDAR HILLS REGIONAL LANDFILL
LAB DATA REVIEW - SUSPECT DATA
(Data Collected from January 01, 2023 to March 31, 2023)

Parameter	Units	Well ID	Sample Date	Sample ID	Sample Value	Cause of Unuseability
No SUSPECT Data for 3Q2022						

See Data Qualifier List for Qualifier Information.

APPENDIX A

Potentiometric Surface Maps and Aquifer Flow Calculations

Water and Land Resources Division

Department of Natural Resources and Parks

King Street Center

201 South Jackson Street, Suite 5600

Seattle, WA 98104-3855

206-477-4800 Fax 206-296-0192

TTY Relay: 711

TECHNICAL MEMORANDUM

June 16, 2023

TO: Laura Belt, Engineer IV, Facility Engineering and Science Section, Solid Waste Division, Department of Natural Resources and Parks (DNRP)

VIA: Eric Ferguson, Water Quality Planner – Hydrogeologist, Science and Technical Support Section, Water and Land Resources Division, DNRP

FM: Adrienne Scott, Engineer III – Lead Geologist, Facility Engineering and Science Section, Solid Waste Division, DNRP

RE: Potentiometric Groundwater Surface Maps & Groundwater Velocity Calculations
First Quarter 2023 Results
Cedar Hills Regional Landfill, King County, Washington
Project No. 1126980 – Task 25.106

The King County Water and Land Resources Division (WLRD) submits this memorandum report on groundwater conditions during the first quarter of 2023 for the regional aquifer beneath the Cedar Hills Regional Landfill (Landfill), in accordance with the *Scope of Work for Services to King County Solid Waste Division – Facility Engineering and Sciences Section* (WLRD, 2023). King County Solid Waste Division (SWD) personnel measured regional aquifer groundwater levels at the Landfill on January 9, 2023; the measurements were used to:

1. Evaluate the potentiometric groundwater surface elevation for the regional aquifer;
2. Determine the groundwater flow direction and horizontal gradient for the regional aquifer; and
3. Calculate the groundwater velocity of the regional aquifer.

There are no significant changes in the interpreted groundwater conditions for the regional aquifer in this quarter, when compared to the report submitted for the fourth quarter of 2022.

Groundwater Elevation Data

The SWD recorded regional aquifer groundwater level measurements at 43 monitoring wells during the first quarter of 2023. These wells are completed in the regional aquifer as referred to in *Potentiometric Groundwater Surface Mapping and Groundwater Velocity Calculation – Cedar Hills Landfill* (Aspect, 2010) and in *Area 8 Development, Monitoring Well Replacement Report* (HDR, 2021).

Table A-1 lists the groundwater monitoring well identifications, locations, construction details, measured depth to groundwater levels, and calculated groundwater elevations for monitoring wells screened in the regional aquifer. A total of 25 wells had measured water levels within ten feet of the top of the screened interval and were used for mapping potentiometric surface contours. All of the wells had water levels within 3 feet of water levels measured during the fourth quarter 2022. The average water level difference measured in the 25 wells is 0.07 ft lower than water levels measured during the fourth quarter of 2022.

Figure A-1 shows calculated groundwater elevations at well locations and interpreted groundwater potentiometric surface contours for the regional aquifer based on measurements taken January 9, 2023.

Direction of Groundwater Flow

Interpreted groundwater flow directions in the regional aquifer, based on measurements taken on January 9, 2023, are shown in Figure A-1. Calculated groundwater elevations during the first quarter of 2023 indicate that groundwater in the regional aquifer generally flows to the north with minor components of flow of the following:

- north-northwest and north-northeast to northeast in the *northern portion* of the Landfill,
- north-northwest beneath the *central portion* of the Landfill, and
- northwest and north-northeast beneath the *southern portion* of the Landfill.

Table A-2 lists the flow direction for each portion of the regional aquifer beneath the Landfill based on measurements taken on January 9, 2023, and mapping of groundwater elevation contours. Flow directions for the regional aquifer in the first quarter of 2023 are similar to those for the fourth quarter of 2022.

Groundwater Parameters

Table A-2 presents a summary of the groundwater parameters. Mean horizontal hydraulic conductivity and effective porosity values were based on the ranges referred to in *Potentiometric Groundwater Surface Mapping and Groundwater Velocity Calculation – Cedar Hills Landfill* (Aspect, 2010). The mean horizontal hydraulic conductivity for the regional aquifer beneath the Landfill is 60 feet per day (ft/d) in the

northern and central portions and 0.18 ft/d in the southern portion of the regional aquifer beneath the Landfill (Aspect, 2010). Average effective porosities are 24 and 26 percent, respectively, for the same areas (Aspect, 2010).

Gradients

The hydraulic gradient for the regional aquifer was determined using potentiometric surface maps (Figure A-1). Table A-2 lists the gradients of regional aquifer for the northern, central, and southern portions beneath the Landfill.

The calculated hydraulic gradient is greatest under the southern portion of the Landfill (0.015 ft/ft) and slightly lower under the rest of the Landfill based on measurements made during the first quarter of 2023. The gradients calculated for the regional aquifer in the first quarter of 2023 are within the range of gradients calculated during the fourth quarter of 2022.

Groundwater Velocities

Average horizontal groundwater velocities for the regional aquifer beneath the Landfill, are based on spatial differences in aquifer parameters, hydraulic gradients, and calculations using the following formula:

where:

$$v = \frac{I}{n_{eff}} K \frac{\Delta H}{\Delta L}$$

v = Groundwater velocity [L/t]

n_{eff} = Effective porosity [dimensionless]

K = Hydraulic conductivity [L/t]

$\frac{\Delta H}{\Delta L}$ = Hydraulic gradient [L/L]

Table A-2 summarizes the groundwater parameters used to calculate groundwater velocities for the regional aquifer in the northern, central, and southern portions beneath the Landfill. The mean horizontal groundwater velocities for the regional aquifer beneath the Landfill, are lowest under the southern portion of the Landfill (0.011 ft/d) and much greater under the rest of the Landfill (with a mean of 2.08 ft/d under the central portion). The velocities calculated for the regional aquifer in the first quarter of 2023 are within the range of groundwater velocities calculated during the fourth quarter of 2022.

References

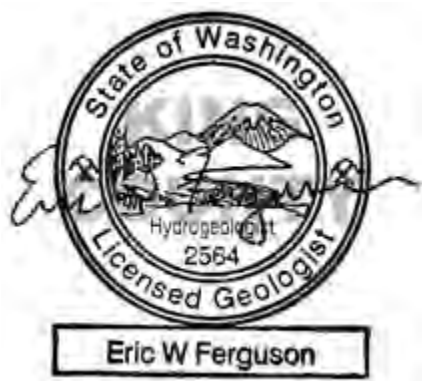
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Thank you for the opportunity to provide hydrogeologic services to SWD. If you have any questions, please contact me at 206-477-4690 or eric.ferguson@kingcounty.gov.

Sincerely,



Eric Ferguson, WA LHG
Water Quality Planner III- Hydrogeologist
King County Water and Land Resources Division

Enclosures:

- Table A-1: Well Details and Groundwater Elevations – First Quarter 2023
- Table A-2: Groundwater Parameters – Regional Aquifer – First Quarter 2023
- Figure A-1: Groundwater Potentiometric Surface Map – First Quarter 2023 – Regional Aquifer

							January 9, 2023	
	Well Identification	Easting ¹	Northing ¹	Top of Casing Elevation ²	Top of Screen Elevation ²	Bottom of Screen Elevation ²	Measured Depth to Water ³	Groundwater Elevations ²
		ft	ft	ft MSL	ft MSL	ft MSL	ft	ft MSL
Wells with water levels within 10 ft of the top of screen	MW-60	1701154.47	167873.20	567.15	334.81	325.81	228.74	338.41
	MW-64	1701980.27	168772.19	596.55	334.03	320.23	268.67	327.88
	MW-66	1699750.19	174250.32	531.28	294.39	280.59	238.76	292.52
	MW-67	1701776.69	172610.65	516.43	297.80	284.00	220.53	295.90
	MW-68	1701917.32	170609.35	647.07	311.29	292.29	332.70	314.37
	MW-72	1698229.92	170987.71	671.87	303.63	294.03	361.07	310.80
	MW-73	1698954.95	174995.59	485.70	288.11	278.81	191.39	294.31
	MW-74R	1700386.85	173813.79	531.26	289.90	280.40	240.06	291.20
	MW-76	1700376.23	167193.13	491.71	351.06	341.56	138.01	353.70
	MW-81	1702568.87	172113.99	493.66	309.19	300.19	183.60	310.06
	MW-82	1699553.72	167725.31	474.85	348.88	339.38	125.75	349.10
	MW-83	1697939.89	167212.27	496.81	350.19	340.69	145.17	351.64
	MW-84	1698602.89	173894.54	530.80	292.46	282.96	236.16	294.64
	MW-85	1701828.95	173694.52	531.76	282.56	273.06	245.92	285.84
	MW-86	1701331.25	174917.90	536.04	283.43	274.63	249.62	286.42
	MW-87	1700670.27	173493.76	537.31	283.68	274.38	248.12	289.19
	MW-88	1701807.87	174303.06	513.68	281.52	272.22	227.22	286.46
	MW-93	1702259.35	169851.24	632.15	319.87	310.07	308.69	323.46
	MW-94	1698674.21	167210.22	495.51	357.22	348.52	143.37	352.14
	MW-95	1697265.32	169426.92	571.54	314.60	305.90	251.17	320.37
Wells with water levels greater than 10 ft above the top of screen	MW-100	1700791.72	169610.46	620.32	319.06	309.06	298.00	322.32
	MW-106	1702536.99	173461.69	475.47	280.04	270.04	190.37	285.10
	MW-113	1698238.80	168478.70	531.09	334.79	325.09	188.34	342.75
	MW-114	1698892.70	167919.80	490.45	353.65	344.05	137.66	352.79
	MW-115	1698960.70	167225.80	484.87	352.87	343.27	132.85	352.02
	MW-21	1697901.86	173876.38	420.66	263.22	255.22	125.16	295.50
	MW-22	1701844.34	173088.17	517.09	236.02	231.22	232.24	284.85
	MW-24	1699582.39	167767.76	475.99	286.76	281.76	148.82	327.17
	MW-43	1701274.23	174327.14	547.06	245.63	235.63	263.40	283.66
	MW-54	1702154.28	168435.53	580.43	250.25	228.25	287.78	292.65
	MW-56	1698980.77	167214.82	480.33	323.15	313.15	128.35	351.98
	MW-57	1699993.32	167201.99	456.64	326.65	311.65	105.79	350.85
	MW-58A	1699006.59	167207.16	479.27	270.05	260.05	149.66	329.61
	MW-59	1699983.91	167193.44	457.13	285.08	275.08	124.62	332.51
	MW-65	1701602.10	167146.55	545.83	317.71	308.91	209.71	336.12
	MW-75	1701059.70	173432.42	532.40	271.10	261.00	245.55	286.85
	MW-80	1701309.78	172964.99	530.41	279.17	269.67	238.93	291.48
	MW-89	1701799.57	174319.44	512.82	229.20	219.90	232.01	280.81
	MW-90	1702203.13	174300.67	502.22	235.16	226.16	221.58	280.64
	MW-91	1701023.09	173423.94	532.02	260.81	240.71	246.79	285.23
Other	MW-99	1702556.06	172098.73	493.64	221.77	212.77	200.37	293.27
	WS-NPW-1	1701906.96	171138.99	646.33	282.80	267.90	332.08	314.25
	WS-NPW-3	1701922.88	170663.28	645.81	285.00	273.90	330.52	315.29
	MW-69 ⁴	1698061.86	172400.20	653.69	293.57	279.97	NM	NM

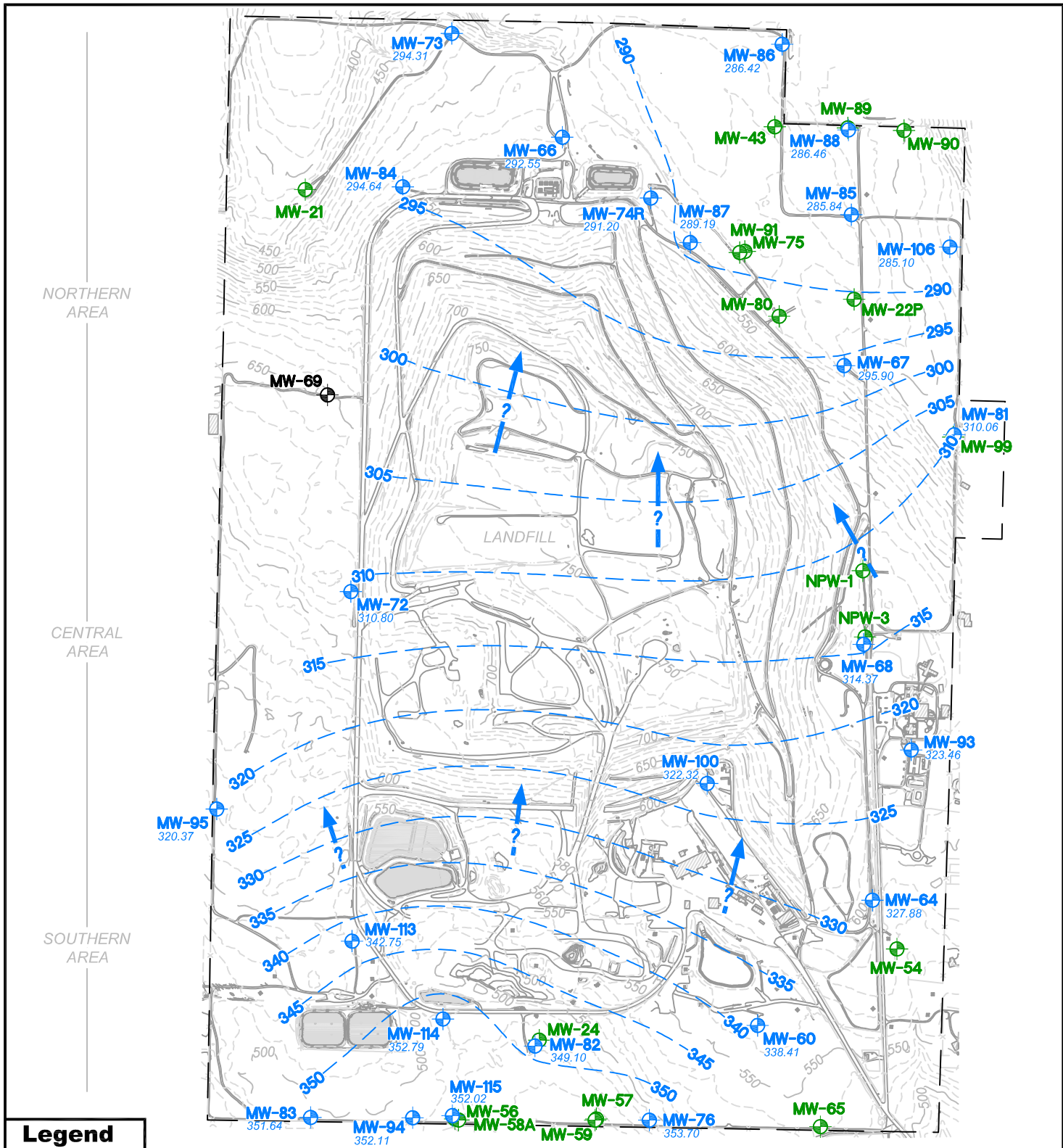
Notes:

1. Water level measurements made by SWD personnel.
 2. Reference datum for northing and easting coordinates is the North American Datum of 1927 (NAD 27).
 3. Elevations reported in feet (ft) above mean sea level (MSL) based on the National Geodetic Vertical Datum of 1929 (NGVD 29).
 4. MW-69 due to be repaired in near future.
- NM Not measured.
NA Not Applicable

					First Quarter 2023 - January 9, 2023		
Regional Aquifer Zone Beneath the Landfill	Horizontal Hydraulic Conductivity ^{1,2}			Effective Porosity ¹ (n _{eff})	Horizontal Hydraulic Gradient ³ (DH/DL)	Horizontal Groundwater Velocity (v)	General Groundwater Flow Direction
	Range	cm/s	ft/d		ft/ft	ft/d	
Northern	Minimum	2.10E-03	6	24%	0.007	0.17	NNW, N, NNE, NE
	Maximum	4.20E-02	120			3.39	
	Mean	2.10E-02	60			1.70	
Central	Minimum	2.10E-03	6	24%	0.008	0.21	N, NNW
	Maximum	4.20E-02	120			4.16	
	Mean	2.10E-02	60			2.08	
Southern	Minimum	6.40E-06	0.018	26%	0.015	0.001	NW, N, NNE
	Maximum	6.40E-04	1.8			0.106	
	Mean	6.40E-05	0.18			0.011	

Notes:

1. Horizontal hydraulic conductivity values and effective porosity values from Potentiometric Groundwater Surface Mapping and Groundwater Velocity Calculation – Cedar Hills Landfill (Aspect, 2010).
 2. Hydraulic gradients calculated using the potentiometric surface map shown on Figure A-1.
 3. Mean hydraulic conductivity values are the geometric mean of the high and low values.
- NNE north-northeast; NNW north-northwest; NE, northeast; NW northwest; N, north



Groundwater Potentiometric Surface Map **First Quarter 2023 - Regional Aquifer** Cedar Hills Regional Landfill King County, Washington

DATE:	April 2023	PROJECT NO.	1126980
DESIGNED BY:	AMS	FIGURE NO.	A-1
DRAWN BY:	KK		
REVISED BY:	EWf		

APPENDIX B

Field and Analytical Test Results

Data Qualifiers

KING COUNTY SOLID WASTE DIVISION
QUALIFIER INFORMATION
(Effective 8/27/2015)

QUAL	QUALIFIER DESCRIPTION
U	Undetected; Analyte Concentration Less than Method Detection Limit (< MDL)
T	Estimated; Less than Reporting Detection Limit (<RDL) but Greater than Method Detection Limit (> MDL)
J	Reported Value is an Estimate
B	Matrix Target Analyte Present in Blank, AND, Sample Result Less than or Equal to 10x Blank Detection
C	Confluent Growth
E	Estimated; Outside Expected Accuracy
H	Exceeds Holding Time
R	Data Rejected
S	Sample Handling Errors
X	Too Numerous to Count
D	Re-analysis Due to Dilution
P	PASS – Qualitative Result Acceptable
F	FAIL – Qualitative Result is not Acceptable
G	Estimated with Low Bias (Coliform; BOD; All Other Chemistry Parameters)
L	Estimated with High Bias (BOD; All Other Chemistry Parameters)

Groundwater Field and Analytical Data

Environmental Monitoring Data
Data Collected from January 01, 2023 to March 31, 2023
Cedar Hills Regional Landfill --- Groundwater Elevation Data

Well	Date	Reference Elevation (msl)	Depth to Water (feet)	Groundwater Elevation (msl)	Comment
MW-115	1/9/2023	484.87	136.60	348.27	
MW-115	1/12/2023	484.87	132.85	352.02	
MW-114	1/9/2023	490.45	137.66	352.79	
MW-114	1/12/2023	490.25	141.20	349.05	
MW-113	1/9/2023	531.09	188.34	342.75	
MW-113	1/12/2023	531.09	188.84	342.25	
MW-112	1/9/2023	638.93	15.86	623.07	
MW-112	1/25/2023	638.93	15.05	623.88	
MW-111	1/9/2023	643.80	8.56	635.24	
MW-111	1/23/2023	643.80	8.37	635.43	
MW-110	1/9/2023	641.74	4.49	637.25	
MW-110	1/20/2023	641.74	4.61	637.13	
MW-109	1/9/2023	638.73	7.22	631.51	
MW-109	1/23/2023	638.73	7.13	631.60	
MW-108	1/9/2023	612.26	15.87	596.39	
MW-107	1/9/2023	589.03	24.95	564.08	
MW-107	1/25/2023	589.03	25.58	563.45	
MW-106	1/9/2023	475.47	190.37	285.10	
MW-105	1/9/2023	521.23	19.77	501.46	
MW-104	1/9/2023	629.68	28.28	601.40	
MW-103	1/9/2023	639.08	12.91	626.17	
MW-103	1/25/2023	639.08	12.08	627.00	
MW-102	1/9/2023	552.48	44.45	508.03	
MW-102	1/23/2023	552.48	44.79	507.69	
MW-101	1/9/2023	474.72	29.60	445.12	
MW-101	1/26/2023	474.72	29.99	444.73	
MW-100	1/9/2023	620.32	298.00	322.32	
WS-NPW-3	1/9/2023	645.81	330.52	315.29	
WS-NPW-1	1/9/2023	646.33	332.08	314.25	
MW-EB6	1/9/2023	589.61	25.85	563.76	
MW-EB5S	1/9/2023	645.77	7.64	638.13	
MW-EB5	1/9/2023	645.36	38.75	606.61	
MW-99	1/9/2023	493.64	200.37	293.27	
MW-98	1/9/2023	503.73	15.45	488.28	
MW-95	1/9/2023	571.54	251.17	320.37	
MW-94	1/9/2023	495.51	143.37	352.14	
MW-94	1/17/2023	495.51	143.55	351.96	
MW-93	1/9/2023	632.15	308.69	323.46	
MW-93	1/10/2023	632.15	308.57	323.58	
MW-91	1/9/2023	532.02	246.79	285.23	
MW-90	1/9/2023	502.22	221.58	280.64	
MW-89	1/9/2023	512.82	232.01	280.81	
MW-88	1/9/2023	513.68	227.22	286.46	
MW-87	1/9/2023	537.31	248.12	289.19	
MW-87	3/29/2023	537.31	247.94	289.37	
MW-86	1/9/2023	536.04	249.62	286.42	
MW-85	1/9/2023	531.76	245.92	285.84	
MW-85	1/10/2023	531.76	246.02	285.74	
MW-84	1/9/2023	530.80	236.16	294.64	
MW-84	1/10/2023	530.80	236.19	294.61	

Environmental Monitoring Data
Data Collected from January 01, 2023 to March 31, 2023
Cedar Hills Regional Landfill --- Groundwater Elevation Data

Well	Date	Reference Elevation (msl)	Depth to Water (feet)	Groundwater Elevation (msl)	Comment
MW-83	1/9/2023	496.81	145.17	351.64	
MW-83	1/17/2023	496.81	145.78	351.03	
MW-82	1/9/2023	474.85	125.75	349.10	
MW-81	1/9/2023	493.66	183.60	310.06	
MW-81	1/10/2023	493.66	183.77	309.89	
MW-80	1/9/2023	530.41	238.93	291.48	
MW-80	1/18/2023	530.41	239.41	291.00	
MW-76	1/9/2023	491.71	138.01	353.70	
MW-75	1/9/2023	532.40	245.55	286.85	
MW-75	1/10/2023	532.40	246.11	286.29	
MW-74R	1/9/2023	531.26	240.06	291.20	
MW-74R	1/11/2023	531.26	240.65	290.61	
MW-73	1/9/2023	485.70	191.39	294.31	
MW-72	1/9/2023	671.87	361.07	310.80	
MW-72	1/9/2023	671.87	361.07	310.80	
MW-68	1/9/2023	647.07	338.56	308.51	
MW-68	3/29/2023	647.07	332.70	314.37	
MW-67	1/9/2023	516.43	220.53	295.90	
MW-66	1/9/2023	531.28	238.76	292.52	
MW-66	1/18/2023	531.28	238.87	292.41	
MW-65	1/9/2023	545.83	209.71	336.12	
MW-64	1/9/2023	596.55	268.67	327.88	
MW-63	1/9/2023	515.88	9.59	506.29	
MW-62	1/9/2023	556.21	49.40	506.81	
MW-62	1/26/2023	556.21	49.77	506.44	
MW-60	1/9/2023	567.15	228.74	338.41	
MW-59	1/9/2023	457.13	124.62	332.51	
MW-59	1/17/2023	457.13	125.11	332.02	
MW-58A	1/9/2023	479.27	149.66	329.61	
MW-57	1/9/2023	456.64	105.79	350.85	
MW-56	1/9/2023	480.33	128.35	351.98	
MW-55	1/9/2023	652.29	30.28	622.01	
MW-54	1/9/2023	580.43	287.78	292.65	
MW-50	1/9/2023	637.02	30.12	606.90	
MW-48	1/9/2023	594.49	38.09	556.40	
MW-47	1/9/2023	634.60	16.96	617.64	
MW-47	1/26/2023	634.60	17.07	617.53	
MW-45	1/9/2023	488.40	13.61	474.79	
MW-43	1/9/2023	547.06	263.40	283.66	
MW-41S	1/9/2023	462.44	4.08	458.36	
MW-41D	1/9/2023	462.32	25.56	436.76	
MW-30A	1/9/2023	568.43	27.35	541.08	
MW-30A	1/26/2023	568.43	27.29	541.14	
MW-29	1/9/2023	532.92	9.61	523.31	
MW-28	1/9/2023	527.75	22.34	505.41	
MW-27A	1/9/2023	584.23	54.56	529.67	
MW-25	1/9/2023	474.41	5.30	469.11	
MW-24	1/9/2023	475.99	148.82	327.17	
MW-22	1/9/2023	517.09	232.24	284.85	
MW-21	1/9/2023	420.66	125.16	295.50	

Environmental Monitoring Data
Data Collected from January 01, 2023 to March 31, 2023
Cedar Hills Regional Landfill --- Groundwater Field Data

Well	Date	Sample ID	Dissolved Oxygen (Field) (mg/L)	ORP (Field) (mV)	pH (Field) (std. Units)	Conductance (Field) (umhos/cm)	Temperature (Field) (°C)	Turbidity (Field) (NTU)	Purge Volume (Field) (gal)
MW-115	1/12/2023	W115230112-	2.91	357.2	6.41	281.7	9.5	0.5	6
MW-114	1/12/2023	W114230112-	4.34	367	6.71	261.4	9.47	0.24	3
MW-113	1/12/2023	W113230112-	0.55	-45.4	7.12	341.9	10.18	0.28	3.75
MW-112	1/25/2023	W112230125-	1.04	122.2	7.3	301.9	10.02	1.13	0.75
MW-111	1/23/2023	W111230123-	8.07	440.9	5.7	79.1	10.47	3.81	5.5
MW-110	1/19/2023	W110230119-	0.43	255.8	6.42	609	11.88	0.64	3
MW-109	1/23/2023	W109230123-	0.79	-151	7.08	2566	10.87	67	6.6
MW-107	1/25/2023	W107230125-	0.73	174.4	5.88	83	9.42	1.29	0.7
MW-103	1/25/2023	W103230125-	6.46	147.4	7.94	215	10.24	14.6	8
MW-102	1/23/2023	W102230123-	8.76	211.7	6.73	125.8	9.44	9.01	5
MW-101	1/26/2023	W101230126-	2.07	205	6.6	397	9.04	0.79	3
MW-94	1/17/2023	W94-230117-	3.43	432.6	6.38	245.4	9.69	0.15	2.5
MW-93	1/10/2023	W93-230110-	0.6	132.6	6.79	274.5	11.08	0.55	4.75
MW-87	3/29/2023	W87-230329-	1.18	150.4	6.6	496.7	10.76	1.36	3
MW-85	1/10/2023	W85-230110-	3.01	434.2	6.83	328.9	9.27	0.17	2.75
MW-84	1/10/2023	W84-230110-	1.07	439.7	6.85	175.8	9.62	0.3	2.5
MW-83	1/17/2023	W83-230117-	0.85	378.4	6.42	601	10.6	0.11	5
MW-81	1/10/2023	W81-230110-	5.37	374.4	6.94	151.7	9.46	0.51	5.5
MW-80	1/18/2023	W80-230118-	0.72	-47.3	7.13	280.3	9.85	1.14	4
MW-75	1/19/2023	W75-230119-	0.48	-31.2	6.97	342.5	9.29	0.5	4.5
MW-74R	1/11/2023	W74R230111-	6.22	192.4	6.64	482.7	10.36	0.33	3
MW-72	1/9/2023	W72-230109-	0.86	-39.8	6.53	288.4	10.38	25.8	4.75
MW-68	3/29/2023	W68-230329-	0.85	7	6.54	247.1	9.63	0.85	4.5
MW-66	1/18/2023	W66-230118-	5.33	292	6.78	185.9	9.78	0.4	4.25
MW-62	1/26/2023	W62-230126-	10.09	246.9	6.27	114.4	10.03	2.76	2.1
MW-59	1/17/2023	W59-230117-	0.34	-27.7	6.59	211.7	9.58	0.42	5.5
MW-47	1/26/2023	W47-230126-	0.92	-14.3	6.84	754.9	10.91	0.75	23
MW-30A	1/26/2023	W30A230126-	5.49	230.6	6.43	293	12.42	4.94	6.25
FIELD BLANK	1/18/2023	W80-230118F			7.21	0.3	8.82		

Environmental Monitoring Data

Data Collected from January 01, 2023 to March 31, 2023

Cedar Hills Regional Landfill --- Groundwater Conventionals Data

Well	Date	Sample ID	Alkalinity, Total (CaCO ₃) (mg/L)	Ammonia, (NH ₃) (mg/L)	Chloride (mg/L)	Nitrate (mg/L)	Specific Conductance (umhos/cm)	Sulfate (SO ₄) (mg/L)	Total Dissolved Solids (mg/L)	Total Organic Carbon (mg/L)	Total Solids (mg/L)	Total Suspended Solids (mg/L)
MW-115	1/12/2023	W115230112-	117	0.002 U	24.5	0.939	329	9.59	203	1.17 S	218	0.5 U
MW-114	1/12/2023	W114230112-	108	0.002 U	20.6	1.45	297	8.27	199	0.62 ST	204	0.5 U
MW-113	1/12/2023	W113230112-	154	0.0155	29.3	0.01 U	396	10.7	259	1.52 S	255	2.4
MW-112	1/25/2023	W112230125-	146	0.0143	6.44	0.038 T	358	33.5	239	0.54 T	247	0.5 U
MW-111	1/23/2023	W111230123-	24.2	0.002 U	0.952	2.2	93.2	9.84	88	0.61 T	82	1.9
MW-110	1/19/2023	W110230119-	394 S	0.0141	2 S	0.01 U	713 S	4.67 S	434 S	3.23 S	444 S	0.91 U
MW-109	1/23/2023	W109230123-	2230	0.386	3.7 T	0.1 U	3520	19.2	2590	226	2450	13.6
MW-109	1/23/2023	W109230123D	2400	0.432	4 T	0.05 U	3770	19.2	2730	238	2650	14.6
MW-107	1/25/2023	W107230125-	26.3	0.233	1.69	1.46	94.4	7.89	78	4.86	78.7	0.5 U
MW-103	1/25/2023	W103230125-	115	0.002 U	4.74	0.031 T	248	9.78	173	0.56 T	189	40.3
MW-102	1/23/2023	W102230123-	53.5	0.002 U	4.77	1.36	144	7.13	107	0.52 T	114	4.8
MW-101	1/26/2023	W101230126-	226	0.0136	2.88	0.01 U	419	3.9	299	4.14	300	2.3
MW-94	1/17/2023	W94-230117-	111 S	0.002 U	17.2	0.638	285 S	6.68	191	2.62 S	180	0.5 U
MW-93	1/10/2023	W93-230110-	124	0.0539	2.69	0.024 T	311	36	203	0.5 U	212	0.83 U
MW-93	1/10/2023	W93-230110D	124	0.0534	2.7	0.024 T	311	35.8	213	0.5 U	205	0.5 U
MW-85	1/10/2023	W85-230110-	158	0.0035 T	9.2	0.105	378	31.2	235	0.5 U	237	0.52 U
MW-84	1/10/2023	W84-230110-	79.6	0.002 U	4.09	0.132	200	16.9	132	0.5 U	134	0.5 GU
MW-83	1/17/2023	W83-230117-	257 S	0.0032 T	65.7	1.83	709 S	12.9	483	5.63 S	509	1.1 U
MW-81	1/10/2023	W81-230110-	60.3	0.002 U	5.19	1.43	173	13	121	0.5 U	121	0.5 U
MW-80	1/18/2023	W80-230118-	125 S	0.0102	5.28	0.01 U	314 S	34.6	205 S	0.5 SU	203 S	2.4
MW-75	1/19/2023	W75-230119-	119 S	0.0091 T	13.8 S	0.01 U	390 S	63.7 S	270 S	0.5 SU	271 S	1 U
MW-74R	1/11/2023	W74R230111-	226	0.002 U	27.2	0.542	552	32.5	339	0.5 SU	328	1 U
MW-72	1/9/2023	W72-230109-	129	0.0174	8.57	0.014 T	323	25.9	207	0.5 U	219	11.8
MW-68	3/29/2023	W68-230329-	122	0.0179	3.5	0.01 U	266	14.6	161	0.57 T	157	1.1 T
MW-66	1/18/2023	W66-230118-	87.9 S	0.002 U	4.36	0.499	213 S	14.2	134 S	0.5 SU	133 S	0.5 U
MW-62	1/26/2023	W62-230126-	44.9	0.002 U	3.06	1.57	131	9.3	96.7	0.75 T	96.7	0.5 T
MW-59	1/17/2023	W59-230117-	79.9 S	0.0064 T	13.8	0.01 U	232 S	17.4	159	0.5 SU	161	1.9
MW-47	1/26/2023	W47-230126-	476	0.024	11.7	0.01 U	902	20.1	552	4.48	555	0.5 T
MW-30A	1/26/2023	W30A230126-	158	0.002 U	2.61	3.05	341	9.79	222	0.82 T	223	3.2
FIELD BLANK	1/18/2023	W80-230118F	1 SU	0.002 U	0.05 U	0.01 U	1 ST	0.1 U	10 SU	0.5 SU	10 SU	0.5 U

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Well	Date	Sample ID	Antimony Dissolved (ug/L)	Antimony Total (ug/L)	Arsenic Dissolved (ug/L)	Arsenic Total (ug/L)	Barium Dissolved (ug/L)	Barium Total (ug/L)	Beryllium Dissolved (ug/L)	Beryllium Total (ug/L)	Cadmium Dissolved (ug/L)	Cadmium Total (ug/L)
MW-115	1/12/2023	W115230112-	0.3 U	0.3 U	0.189	0.194	1.35	1.41	0.1 U	0.1 U	0.05 U	0.05 U
MW-114	1/12/2023	W114230112-	0.3 U	0.3 U	0.277	0.275	1.73	1.69	0.1 U	0.1 U	0.05 U	0.05 U
MW-113	1/12/2023	W113230112-	0.3 U	0.3 U	0.603	0.625	2.9	2.99	0.1 U	0.1 U	0.05 U	0.05 U
MW-112	1/25/2023	W112230125-	0.3 U	0.3 U	3.37	3.4	8.17	7.73	0.1 U	0.1 U	0.05 U	0.05 U
MW-111	1/23/2023	W111230123-	0.3 U	0.3 U	0.676	0.785	4.98	5.24	0.1 U	0.1 U	0.05 U	0.05 U
MW-110	1/19/2023	W110230119-	0.3 U	0.3 U	1.83	1.86	20.7	22.7	0.1 U	0.1 U	0.0977	0.0961
MW-109	1/23/2023	W109230123-	3.02 U	3.04 U	67.7	77.5	187	224	1.01 U	1.01 U	0.504 U	0.506 U
MW-109	1/23/2023	W109230123D	3.02 U	3.02 U	65.5	77.7	179	220	1.01 U	1.01 U	0.504 U	0.503 U
MW-107	1/25/2023	W107230125-	0.409	4.38E-01	0.838	0.957	4.86	4.79	0.1 U	0.1 U	0.122	0.121
MW-103	1/25/2023	W103230125-	0.3 U	0.3 U	8.71	9.35	8.08	16.5	0.1 U	0.1 U	0.05 U	0.05 U
MW-102	1/23/2023	W102230123-	0.3 U	0.3 U	0.249	0.37	3.45	6.15	0.1 U	0.1 U	0.05 U	0.05 U
MW-101	1/26/2023	W101230126-	0.3 U	0.3 U	7.87	9.05	18	17.4	0.1 U	0.1 U	0.05 U	0.05 U
MW-94	1/17/2023	W94-230117-	0.3 U	0.3 U	1.15E-01	0.126	2.2	2.21	0.1 U	0.1 U	0.05 U	0.05 U
MW-93	1/10/2023	W93-230110-	0.3 U	0.3 U	1.48E+00	1.59	7.13	7.56	0.1 U	0.1 U	0.05 U	0.05 U
MW-93	1/10/2023	W93-230110D	0.3 U	0.3 U	1.48	1.62	7.27	7.59	0.1 U	0.1 U	0.05 U	0.05 U
MW-85	1/10/2023	W85-230110-	0.3 U	0.3 U	0.75	0.729	7.54	7.35	0.1 U	0.1 U	0.05 U	0.05 U
MW-84	1/10/2023	W84-230110-	0.3 U	0.3 U	0.335	0.328	4.86	4.88	0.1 U	0.1 U	0.05 U	0.05 U
MW-83	1/17/2023	W83-230117-	0.3 U	0.3 U	0.36	0.371	12.4	12.4	0.1 U	0.1 U	0.05 U	0.05 U
MW-81	1/10/2023	W81-230110-	0.3 U	0.3 U	0.549	0.545	3.57	3.63	0.1 U	0.1 U	0.05 U	0.05 U
MW-80	1/18/2023	W80-230118-	0.3 U	0.3 U	3.18	3.4	15.3	15.3	0.1 U	0.1 U	0.05 U	0.05 U
MW-75	1/19/2023	W75-230119-	0.3 U	0.3 U	0.429	0.423	13.2	14.1	0.1 U	0.1 U	0.05 U	0.05 U
MW-74R	1/11/2023	W74R230111-	0.3 U	0.3 U	0.395	0.462	12.8	13.5	0.1 U	0.1 U	0.05 U	0.05 U
MW-72	1/9/2023	W72-230109-	0.3 U	0.3 U	0.0648	0.184	11.6	13.6	0.1 U	0.1 U	0.05 U	0.05 U
MW-68	3/29/2023	W68-230329-	0.3 U	0.3 U	4.69	5.7	10.5	11.1	0.1 U	0.1 U	0.05 U	0.05 U
MW-66	1/18/2023	W66-230118-	0.3 U	0.3 U	0.711	0.741	3.93	4.23	0.1 U	0.1 U	0.05 U	0.05 U
MW-62	1/26/2023	W62-230126-	0.3 U	0.3 U	0.178	0.249	1.94	2.67	0.1 U	0.1 U	0.05 U	0.05 U
MW-59	1/17/2023	W59-230117-	0.3 U	0.3 U	0.438	0.463	4.42	4.7	0.1 U	0.1 U	0.05 U	0.05 U
MW-47	1/26/2023	W47-230126-	0.3 U	0.3 U	0.765	0.804	30.7	29	0.1 U	0.1 U	0.05 U	0.05 U
MW-30A	1/26/2023	W30A230126-	0.3 U	0.3 U	0.517	0.638	5.88	6.33	0.1 U	0.1 U	0.05 U	0.05 U
FIELD BLANK	1/18/2023	W80-230118F	0.3 U	0.3 U	0.05 U	0.05 U	0.5 U	0.5 U	0.1 U	0.1 U	0.05 U	0.05 U

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Well	Date	Sample ID	Calcium Dissolved (ug/L)	Calcium Total (ug/L)	Chromium Dissolved (ug/L)	Chromium Total (ug/L)	Cobalt Dissolved (ug/L)	Cobalt Total (ug/L)	Copper Dissolved (ug/L)	Copper Total (ug/L)	Iron Dissolved (ug/L)	Iron Total (ug/L)	Lead Dissolved (ug/L)	Lead Total (ug/L)
MW-115	1/12/2023	W115230112-	35400	35700	0.2 U	0.239	0.05 U	5.49E-02	0.275	0.295	10 U	10 U	0.1 U	0.1 U
MW-114	1/12/2023	W114230112-	29500	30300	0.2 U	0.244	0.102	0.171	0.2 U	0.207	10 U	10 U	0.1 U	0.1 U
MW-113	1/12/2023	W113230112-	39700	40500	0.2 U	0.2 U	0.05 U	0.05 U	0.2 U	0.2 U	1450	1510	0.1 U	0.1 U
MW-112	1/25/2023	W112230125-	32400	31000	0.306	0.348	0.05 U	0.05 U	0.2 U	0.2 U	10 U	10 U	0.1 U	0.1 U
MW-111	1/23/2023	W111230123-	8800	8550	1.94	2.08E+00	0.05 U	0.05 U	0.2 U	0.26	10 U	95.1	0.1 U	0.1 U
MW-110	1/19/2023	W110230119-	78300	75100	0.2 U	0.2 U	1.01	0.957	0.778	0.85	21.6	38	0.1 U	0.1 U
MW-109	1/23/2023	W109230123-	52200	50300	248	2.44E+02	1.72	2.51	20.5	70.6	20700	24000	1.98	5.59
MW-109	1/23/2023	W109230123D	51500	50800	244	2.45E+02	1.7	2.47	17.3	68.3	18900	23800	1.53	5.47
MW-107	1/25/2023	W107230125-	9290	8740	0.897	9.00E-01	0.549	0.612	17.6	18.7	94.3	145	0.1 U	0.1 U
MW-103	1/25/2023	W103230125-	22700	23500	0.2 U	1.26E+00	0.05 U	0.473	0.423	2.44	10 U	508	0.1 U	0.645
MW-102	1/23/2023	W102230123-	12800	13000	0.263	1.16	0.05 U	0.253	0.44	1.26	10 U	496	0.1 U	0.221
MW-101	1/26/2023	W101230126-	48200	48000	0.206	0.411	0.275	0.308	0.2 U	0.2 U	601	735	0.1 U	0.1 U
MW-94	1/17/2023	W94-230117-	29300	30600	0.2 U	0.2 U	0.119	0.128	1.44	1.5	10 U	10 U	0.1 U	0.1 U
MW-93	1/10/2023	W93-230110-	31800	32000	0.2 U	0.2 U	0.0633	0.0768	0.221	0.447	10 U	20.1	0.1 U	0.1 U
MW-93	1/10/2023	W93-230110D	31800	32700	0.2 U	0.2 U	6.25E-02	0.0786	0.243	0.454	10 U	20.9	0.1 U	0.1 U
MW-85	1/10/2023	W85-230110-	37800	37000	0.2 U	0.2 U	0.05 U	0.05 U	0.308	0.2 U	10 U	10 U	0.1 U	0.1 U
MW-84	1/10/2023	W84-230110-	16400	16300	0.2 U	0.2 U	0.05 U	0.05 U	0.2 U	0.2 U	10 U	10 U	0.1 U	0.1 U
MW-83	1/17/2023	W83-230117-	82900	82200	0.407	3.96E-01	0.268	0.28	3.07	3.1	10 U	10 U	0.1 U	0.1 U
MW-81	1/10/2023	W81-230110-	16000	15900	0.2 U	0.2 U	0.05 U	0.05 U	0.323	0.323	10 U	18.6	0.1 U	0.1 U
MW-80	1/18/2023	W80-230118-	33600	34600	0.2 U	0.2 U	0.05 U	0.05 U	0.2 U	0.2 U	2380	2460	0.1 U	0.1 U
MW-75	1/19/2023	W75-230119-	35000	34900	0.2 U	0.2 U	0.05 U	0.05 U	0.2 U	0.2 U	2870	2830	0.1 U	0.1 U
MW-74R	1/11/2023	W74R230111-	50200	51600	0.203	0.213	0.05 U	0.05 U	0.243	0.26	10 U	41.8	0.1 U	0.1 U
MW-72	1/9/2023	W72-230109-	31800	31300	0.2 U	0.2 U	0.05 U	0.05 U	0.2 U	0.265	2570	5830	0.1 U	0.1 U
MW-68	3/29/2023	W68-230329-	25300	26600	0.2 U	0.2 U	0.185	0.184	0.2 U	0.255	555	637	0.1 U	0.1 U
MW-66	1/18/2023	W66-230118-	17400	17600	0.2 U	0.2 U	0.05 U	0.05 U	0.2 U	0.2 U	10 U	15.6	0.1 U	0.1 U
MW-62	1/26/2023	W62-230126-	13400	12900	0.273	0.634	0.0527	0.143	0.282	0.658	10 U	232	0.1 U	0.129
MW-59	1/17/2023	W59-230117-	20900	21500	0.2 U	0.214	0.05 U	0.05 U	0.2 U	0.2 U	5020	5260	0.1 U	0.1 U
MW-47	1/26/2023	W47-230126-	114000	108000	0.2 U	0.2 U	0.28	0.292	0.2 U	0.2 U	312	328	0.1 U	0.1 U
MW-30A	1/26/2023	W30A230126-	34500	32800	0.828	1.07	0.05 U	0.148	0.573	2.58	10 U	270	0.1 U	0.744
FIELD BLANK	1/18/2023	W80-230118F	50 U	50 U	0.2 U	0.2 U	0.05 U	0.05 U	0.2 U	0.2 U	10 U	10 U	0.1 U	0.1 U

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Well	Date	Sample ID	Magnesium Dissolved (ug/L)	Magnesium Total (ug/L)	Manganese Dissolved (ug/L)	Manganese Total (ug/L)	Mercury Dissolved (ug/L)	Mercury Total (ug/L)	Nickel Dissolved (ug/L)	Nickel Total (ug/L)	Potassium Dissolved (ug/L)	Potassium Total (ug/L)
MW-115	1/12/2023	W115230112-	15500	15700	2.39	2.71	0.05 U	0.05 DU	0.431	0.482	2090	2120
MW-114	1/12/2023	W114230112-	15100	15100	0.26	0.758	0.05 U	0.05 DU	0.38	0.362	2240	2270
MW-113	1/12/2023	W113230112-	21900	22700	401	464	0.05 U	0.05 DU	0.336	0.319	2090	2160
MW-112	1/25/2023	W112230125-	15600	14700	54	66.5	0.05 DU	0.05 DU	0.281	0.319	3230	3180
MW-111	1/23/2023	W111230123-	2600	2590	1.6	2.49	0.05 DU	0.05 DU	1.6	1.67	343	370
MW-110	1/19/2023	W110230119-	42200	37800	2040	2120	0.05 U	0.05 DU	7.22	6.77	3330	3470
MW-109	1/23/2023	W109230123-	24700	23900	3840	3760	0.504 DU	0.506 DU	22.4	26.3	3110	3160
MW-109	1/23/2023	W109230123D	25000	23500	3740	3720	0.504 DU	0.503 DU	22.8	26.3	3070	3120
MW-107	1/25/2023	W107230125-	2830	2710	545	562	0.05 DU	0.05 DU	4.3	4.48	1410	1360
MW-103	1/25/2023	W103230125-	10200	10000	0.663	334	0.05 U	0.05 DU	0.22 D	1.69	2560	2840
MW-102	1/23/2023	W102230123-	4820	4850	0.282	6.61	0.05 U	0.05 DU	0.517 D	0.874	918	1040
MW-101	1/26/2023	W101230126-	27900	27800	915	955	0.05 DU	0.05 DU	3.3	3.64	2640	2660
MW-94	1/17/2023	W94-230117-	13700	14200	0.883	1.17	0.05 U	0.05 DU	0.713	0.671	2510	2630
MW-93	1/10/2023	W93-230110-	17200	16900	143	176	0.05 U	0.05 DU	0.23	0.27	1500	1520
MW-93	1/10/2023	W93-230110D	16600	17400	147	181	0.05 U	0.05 DU	0.27	0.276	1510	1570
MW-85	1/10/2023	W85-230110-	24400	22900	0.12	0.1 U	0.05 U	0.05 DU	0.241	0.23	1780	1740
MW-84	1/10/2023	W84-230110-	12800	12400	0.661	4.21	0.05 U	0.05 DU	0.386	0.39	1180	1170
MW-83	1/17/2023	W83-230117-	35200	35300	9.81	12.2	0.05 U	0.05 DU	6.26	6.25	4090	4110
MW-81	1/10/2023	W81-230110-	8590	8700	0.368	1.32	0.05 U	0.05 DU	0.216	0.238	898	911
MW-80	1/18/2023	W80-230118-	18300	18300	334	380	0.05 U	0.05 DU	0.142	0.1 U	1730	1800
MW-75	1/19/2023	W75-230119-	25800	23500	217	244	0.05 U	0.05 DU	0.139	0.1 U	2050	2160
MW-74R	1/11/2023	W74R230111-	38100	40000	0.1 U	1.81	0.05 U	0.05 DU	1.03	1.07	2160	2250
MW-72	1/9/2023	W72-230109-	19900	18600	316	339	0.05 U	0.05 DU	0.161	0.12	1950	1910
MW-68	3/29/2023	W68-230329-	14200	14600	286	298	0.05 U	0.05 U	0.454	0.439	1570	1790
MW-66	1/18/2023	W66-230118-	13900	14500	0.1 U	0.766	0.05 U	0.05 DU	0.225	0.207	1150	1190
MW-62	1/26/2023	W62-230126-	3240	3110	0.516	5.78	0.05 DU	0.05 DU	0.472	0.738	763	771
MW-59	1/17/2023	W59-230117-	12900	13600	113	136	0.05 U	0.05 DU	0.178	0.183	1230	1300
MW-47	1/26/2023	W47-230126-	54700	52600	928	873	0.05 DU	0.05 DU	0.993	1.11	5080	5030
MW-30A	1/26/2023	W30A230126-	18600	17800	0.394	4.22	0.05 DU	0.05 DU	1.04	1.35	1910	1830
FIELD BLANK	1/18/2023	W80-230118F	50 U	50 U	0.1 U	0.1 U	0.05 U	0.05 DU	0.1 U	0.1 U	100 U	100 U

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Well	Date	Sample ID	Selenium Dissolved (ug/L)	Selenium Total (ug/L)	Silver Dissolved (ug/L)	Silver Total (ug/L)	Sodium Dissolved (ug/L)	Sodium Total (ug/L)	Thallium Dissolved (ug/L)	Thallium Total (ug/L)	Vanadium Dissolved (ug/L)	Vanadium Total (ug/L)	Zinc Dissolved (ug/L)	Zinc Total (ug/L)
MW-115	1/12/2023	W115230112-	0.5 U	0.5 U	0.04 U	0.04 U	8470	7290	0.075 U	0.075 U	0.572	0.563	0.5 U	0.74
MW-114	1/12/2023	W114230112-	0.5 U	0.5 U	0.04 U	0.04 U	7350	6300	0.075 U	0.075 U	0.821	0.809	0.5 U	0.5 U
MW-113	1/12/2023	W113230112-	0.5 U	0.5 U	0.04 U	0.04 U	9990	9020	0.075 U	0.075 U	0.0843	0.075 U	0.5 U	2.43
MW-112	1/25/2023	W112230125-	0.5 U	0.5 U	0.04 U	0.04 U	30500	29700	0.075 U	0.075 U	1.16 D	1.18	0.5 U	1.55
MW-111	1/23/2023	W111230123-	0.5 U	0.5 U	0.04 U	0.04 U	6750	6840	0.075 U	0.075 U	1.2 D	1.4	0.5 U	0.608
MW-110	1/19/2023	W110230119-	0.5 U	0.5 U	0.04 U	0.04 U	35200	33100	0.075 U	0.075 U	1.16	1.22	0.5 U	1.65
MW-109	1/23/2023	W109230123-	5.04 U	5.06 U	0.403 U	0.405 U	1200000	1100000	0.756 U	0.759 U	755 D	738	5.04 U	9.25
MW-109	1/23/2023	W109230123D	5.04 U	5.03 U	0.403 U	0.403 U	1180000	1110000	0.756 U	0.755 U	757 D	744	5.42	9.39
MW-107	1/25/2023	W107230125-	0.5 U	0.5 U	0.04 U	0.04 U	4310	4440	0.075 U	0.075 U	0.988 D	1.17	1.12	0.954
MW-103	1/25/2023	W103230125-	0.5 U	0.5 U	0.04 U	0.04 U	14300	14500	0.075 U	0.075 U	1.83 D	2.82	1.09	4.06
MW-102	1/23/2023	W102230123-	0.5 U	0.5 U	0.04 U	0.04 U	9480	9590	0.075 U	0.075 U	1.16 D	2.03	0.54	1.53
MW-101	1/26/2023	W101230126-	0.5 U	0.5 U	0.04 U	0.04 U	16700	17800	0.075 U	0.075 U	0.545 D	0.531	0.572	0.69
MW-94	1/17/2023	W94-230117-	0.5 U	0.5 U	0.04 U	0.04 U	9940	8920	0.075 U	0.075 U	1.12	1.17E+00	0.5 U	0.5 U
MW-93	1/10/2023	W93-230110-	0.5 U	0.5 U	0.04 U	0.04 U	9820	8730	0.075 U	0.075 U	2.09	2.17E+00	4.94	5.76
MW-93	1/10/2023	W93-230110D	0.5 U	0.5 U	0.04 U	0.04 U	9660	9000	0.075 U	0.075 U	2.09	2.23	5.36	5.65
MW-85	1/10/2023	W85-230110-	0.878	0.803	0.04 U	0.04 U	10900	9750	0.075 U	0.075 U	0.95	0.917	0.5 U	0.5 U
MW-84	1/10/2023	W84-230110-	0.565	0.5 U	0.04 U	0.04 U	7590	6730	0.075 U	0.075 U	0.548	0.534	3.26	10.2
MW-83	1/17/2023	W83-230117-	0.5 U	0.5 U	0.04 U	0.04 U	16900	14900	0.075 U	0.075 U	0.877	0.901	0.5 U	0.851
MW-81	1/10/2023	W81-230110-	0.885	0.772	0.04 U	0.04 U	7320	6780	0.075 U	0.075 U	1.68	1.62	2.28	2.43
MW-80	1/18/2023	W80-230118-	0.5 U	0.5 U	0.04 U	0.04 U	8850	7780	0.075 U	0.075 U	0.075 U	0.0864	2.8	1.1
MW-75	1/19/2023	W75-230119-	0.5 U	0.5 U	0.04 U	0.04 U	10200	9800	0.075 U	0.075 U	0.075 U	0.0838	0.5 U	0.869
MW-74R	1/11/2023	W74R230111-	0.575	0.567	0.04 U	0.04 U	13200	12000	0.075 U	0.075 U	0.65	0.692	0.5 U	0.5 U
MW-72	1/9/2023	W72-230109-	0.5 U	0.5 U	0.04 U	0.04 U	8940	8170	0.075 U	0.075 U	0.075 U	0.076	0.574	3.84
MW-68	3/29/2023	W68-230329-	0.5 U	0.5 U	0.04 U	0.04 U	9210	9210	0.075 U	0.075 U	0.179	0.241	0.5 U	0.563
MW-66	1/18/2023	W66-230118-	0.929	0.899	0.04 U	0.04 U	8040	6970	0.075 U	0.075 U	0.73	0.76	0.5 U	0.83
MW-62	1/26/2023	W62-230126-	0.5 U	0.5 U	0.04 U	0.04 U	9230	9850	0.075 U	0.075 U	0.826 D	1.18	0.5 U	0.957
MW-59	1/17/2023	W59-230117-	0.5 U	0.5 U	0.04 U	0.04 U	7120	6420	0.075 U	0.075 U	0.075 U	0.075 U	0.5 U	0.793
MW-47	1/26/2023	W47-230126-	0.5 U	0.5 U	0.04 U	0.04 U	18100	17400	0.075 U	0.075 U	0.365 D	0.45	0.5 U	0.5 U
MW-30A	1/26/2023	W30A230126-	0.5 U	0.5 U	0.04 U	0.04 U	16000	15200	0.075 U	0.075 U	2.28 D	2.92	4.69	5.74
FIELD BLANK	1/18/2023	W80-230118F	0.5 U	0.5 U	0.04 U	0.04 U	100 U	100 U	0.075 U	0.075 U	0.075 U	0.075 U	0.5 U	0.5 U

Environmental Monitoring Data

Data Collected from January 01, 2023 to March 31, 2023

Cedar Hills Regional Landfill --- Groundwater Volatile Organic Compounds Data

Well	Date	Sample ID	1,1,1,2-TETRA- CHLOROETHA- NE	1,1,1-TRI- CHLORO- ETHANE	1,1,2,2- TETRA- CHLORO- ETHANE	1,1,2-TRI- CHLORO- ETHANE	1,1-DI- CHLORO- ETHANE	1,1-DI- CHLORO- ETHENE	1,1-DI- CHLORO- PROPENE	1,2,3-TRI- CHLORO- PROPANE	1,2-DI- BROMO-3- CHLORO- PROPANE	1,2-DI- BROMO- ETHANE	1,2-DI- CHLORO- BENZENE	1,2-DI- CHLORO- ETHANE
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-115	1/12/2023	W115230112-	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
MW-114	1/12/2023	W114230112-	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
MW-113	1/12/2023	W113230112-	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
MW-112	1/25/2023	W112230125-	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
MW-111	1/23/2023	W111230123-	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
MW-110	1/19/2023	W110230119-	0.25 U	0.1 U	0.1 U	0.1 U	0.266	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.718	0.23
MW-109	1/23/2023	W109230123-	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	1 U	1 U	1 U
MW-109	1/23/2023	W109230123D	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	1 U	1 U	1 U
MW-107	1/25/2023	W107230125-	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
MW-103	1/25/2023	W103230125-	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
MW-102	1/23/2023	W102230123-	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
MW-101	1/26/2023	W101230126-	0.25 U	0.1 U	0.1 U	0.1 U	0.119 JT	0.1 U		0.1 U	2.5 U	0.1 U	0.1 U	0.116 JT
MW-94	1/17/2023	W94-230117-	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
MW-93	1/10/2023	W93-230110-	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
MW-93	1/10/2023	W93-230110D	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
MW-85	1/10/2023	W85-230110-	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
MW-84	1/10/2023	W84-230110-	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
MW-83	1/17/2023	W83-230117-	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
MW-81	1/10/2023	W81-230110-	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
MW-80	1/18/2023	W80-230118-	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
MW-75	1/19/2023	W75-230119-	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
MW-74R	1/11/2023	W74R230111-	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
MW-72	1/9/2023	W72-230109-	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
MW-68	3/29/2023	W68-230329-	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
MW-66	1/18/2023	W66-230118-	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U	2.5 U	0.1 U	0.1 U	0.1 U

Environmental Monitoring Data
Data Collected from January 01, 2023 to March 31, 2023
Cedar Hills Regional Landfill --- Groundwater Volatile Organic Compounds Data

Well	Date	Sample ID	1,1,1,2-TETRA- CHLOROETHA- NE	1,1,1-TRI- CHLORO- ETHANE	1,1,2,2- TETRA- CHLORO- ETHANE	1,1,2-TRI- CHLORO- ETHANE	1,1-DI- CHLORO- ETHANE	1,1-DI- CHLORO- ETHENE	1,1-DI- CHLORO- PROPENE	1,2,3-TRI- CHLORO- PROPANE	1,2-DI- BROMO-3- CHLORO- PROPANE	1,2-DI- BROMO- ETHANE	1,2-DI- CHLORO- BENZENE	1,2-DI- CHLORO- ETHANE
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-62	1/26/2023	W62-230126-	0.25 U	0.1 U	0.1 U	0.1 U	0.225	0.1 U		0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
MW-59	1/17/2023	W59-230117-	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
MW-47	1/26/2023	W47-230126-	0.25 U	0.1 U	0.1 U	0.1 U	0.392	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
MW-30A	1/26/2023	W30A230126-	0.25 U	0.1 U	0.1 U	0.1 U	1.84	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
FIELD BLANK	1/18/2023	W80-230118F	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	1/4/2023	VTRP230109Z	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	1/4/2023	VTRP230110X	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	1/4/2023	VTRP230110Z	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	1/10/2023	VTRP230111Z2	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	1/10/2023	VTRP230112X	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	1/11/2023	VTRP230117X	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	1/12/2023	VTRP230118X	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	1/12/2023	VTRP230119X	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	1/17/2023	VTRP230118Z	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	1/18/2023	VTRP230119X2	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	1/19/2023	VTRP230123X	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	1/19/2023	VTRP230123Z	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	1/19/2023	VTRP230126Z	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	1/23/2023	VTRP230125Z	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	1/24/2023	VTRP230125Y	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	1/24/2023	VTRP230126X	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	1/25/2023	VTRP230126Y	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	1/25/2023	VTRP230126Z2	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	3/28/2023	VTRP230329Y	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U

Environmental Monitoring Data
Data Collected from January 01, 2023 to March 31, 2023
Cedar Hills Regional Landfill --- Groundwater Volatile Organic Compounds Data

Well	Date	Sample ID	1,2-DI- CHLORO- PROPANE	1,3-DI- CHLORO- BENZENE	1,3-DI- CHLORO- PROPANE	1,4-DI- CHLORO- BENZENE	2,2-DI- CHLORO- PROPANE	2- BUTANONE	2- HEXANONE	2-METHYL-1- PROPANOL	3-CHLORO- PROPENE	4-METHYL- 2-PENTA- NONE	ACETONE	ACETO- NITRILE
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-115	1/12/2023	W115230112-	0.1 U			0.1 U		1 U	0.5 U			2.5 U	2.5 U	
MW-114	1/12/2023	W114230112-	0.1 U			0.1 U		1 U	0.5 U			2.5 U	2.5 U	
MW-113	1/12/2023	W113230112-	0.1 U			0.1 U		1 U	0.5 U			2.5 U	2.5 U	
MW-112	1/25/2023	W112230125-	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U	0.5 U	10 DU	0.1 U	2.5 U	2.5 U	10 U
MW-111	1/23/2023	W111230123-	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U	0.5 U	10 DU	0.1 U	2.5 U	2.5 U	10 U
MW-110	1/19/2023	W110230119-	0.238	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U	0.5 U	5 DU	0.1 U	2.5 U	5 U	10 U
MW-109	1/23/2023	W109230123-	1 U	1 U	1 U	1 U	1 U	2.5 U	5 U	100 DU	1 U	25 U	25 U	100 U
MW-109	1/23/2023	W109230123D	1 U	1 U	1 U	1.01 JT	1 U	2.5 U	5 U	100 DU	1 U	25 U	25 U	100 U
MW-107	1/25/2023	W107230125-	0.1 U	0.1 U	0.1 U	0.138 JT	0.1 U	0.25 U	0.5 U	10 DU	0.1 U	2.5 U	2.5 U	10 U
MW-103	1/25/2023	W103230125-	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U	0.5 U	10 DU	0.1 U	2.5 U	2.5 U	10 U
MW-102	1/23/2023	W102230123-	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U	0.5 U	10 DU	0.1 U	2.5 U	2.5 U	10 U
MW-101	1/26/2023	W101230126-	0.1 U			0.1 U		1 U	0.5 U			2.5 U	2.5 U	
MW-94	1/17/2023	W94-230117-	0.1 U			0.1 U		1 U	0.5 U			2.5 U	2.5 U	
MW-93	1/10/2023	W93-230110-	0.1 U			0.1 U		1 U	0.5 U			2.5 U	2.5 U	
MW-93	1/10/2023	W93-230110D	0.1 U			0.1 U		1 U	0.5 U			2.5 U	2.5 U	
MW-85	1/10/2023	W85-230110-	0.1 U			0.1 U		1 U	0.5 U			2.5 U	2.5 U	
MW-84	1/10/2023	W84-230110-	0.1 U			0.1 U		1 U	0.5 U			2.5 U	2.5 U	
MW-83	1/17/2023	W83-230117-	0.1 U			0.1 U		1 GU	0.5 U			2.5 U	2.5 U	
MW-81	1/10/2023	W81-230110-	0.1 U			0.1 U		1 U	0.5 U			2.5 U	2.5 U	
MW-80	1/18/2023	W80-230118-	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U	0.5 U	5 DU	0.1 U	2.5 U	5 U	10 U
MW-75	1/19/2023	W75-230119-	0.1 U			0.1 U		1 U	0.5 U			2.5 U	2.5 U	
MW-74R	1/11/2023	W74R230111-	0.1 U			0.1 U		1 U	0.5 U			2.5 U	2.5 U	
MW-72	1/9/2023	W72-230109-	0.1 U			0.1 U		1 U	0.5 U			2.5 U	2.5 U	
MW-68	3/29/2023	W68-230329-	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	0.5 U	10 DU	0.1 U	2.5 U	2.5 U	5 U
MW-66	1/18/2023	W66-230118-	0.1 U			0.1 U		1 U	0.5 U			2.5 U	2.5 U	

Environmental Monitoring Data
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Cedar Hills Regional Landfill --- Groundwater Volatile Organic Compounds Data

Well	Date	Sample ID	1,2-DI- CHLORO- PROPANE	1,3-DI- CHLORO- BENZENE	1,3-DI- CHLORO- PROPANE	1,4-DI- CHLORO- BENZENE	2,2-DI- CHLORO- PROPANE	2- BUTANONE	2- HEXANONE	2-METHYL-1- PROPANOL	3-CHLORO- PROPENE	4-METHYL- 2-PENTA- NONE	ACETONE	ACETO- NITRILE
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-62	1/26/2023	W62-230126-	0.1 U			0.1 U		1 U	0.5 U			2.5 U	2.5 U	
MW-59	1/17/2023	W59-230117-	0.1 U			0.1 U		1 U	0.5 U			2.5 U	2.5 U	
MW-47	1/26/2023	W47-230126-	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U	0.5 U	10 DU	0.1 U	2.5 U	2.5 U	10 U
MW-30A	1/26/2023	W30A230126-	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U	0.5 U	10 DU	0.1 U	2.5 U	2.5 U	10 U
FIELD BLANK	1/18/2023	W80-230118F	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 GU	0.5 U	5 DU	0.1 U	2.5 U	5 U	10 U
VOA TRIP BLANK	1/4/2023	VTRP230109Z	0.1 U			0.1 U		1 U	0.5 U			2.5 U	2.5 U	
VOA TRIP BLANK	1/4/2023	VTRP230110X	0.1 U			0.1 U		1 U	0.5 U			2.5 U	2.5 U	
VOA TRIP BLANK	1/4/2023	VTRP230110Z	0.1 U			0.1 U		1 U	0.5 U			2.5 U	2.5 U	
VOA TRIP BLANK	1/10/2023	VTRP230111Z2	0.1 U			0.1 U		1 U	0.5 U			2.5 U	2.5 U	
VOA TRIP BLANK	1/10/2023	VTRP230112X	0.1 U			0.1 U		1 U	0.5 U			2.5 U	2.5 U	
VOA TRIP BLANK	1/11/2023	VTRP230117X	0.1 U			0.1 U		1 U	0.5 U			2.5 U	2.5 U	
VOA TRIP BLANK	1/12/2023	VTRP230118X	0.1 U			0.1 U		1 U	0.5 U			2.5 U	2.5 U	
VOA TRIP BLANK	1/12/2023	VTRP230119X	0.1 U			0.1 U		1 U	0.5 U			2.5 U	2.5 U	
VOA TRIP BLANK	1/17/2023	VTRP230118Z	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U	0.5 U	5 DU	0.1 U	2.5 U	5 U	10 U
VOA TRIP BLANK	1/18/2023	VTRP230119X2	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U	0.5 U	5 DU	0.1 U	2.5 U	5 U	10 U
VOA TRIP BLANK	1/19/2023	VTRP230123X	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U	0.5 U	5 DU	0.1 U	2.5 U	5 U	10 U
VOA TRIP BLANK	1/19/2023	VTRP230123Z	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U	0.5 U	5 DU	0.1 U	2.5 U	5 U	10 U
VOA TRIP BLANK	1/19/2023	VTRP230126Z	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U	0.5 U	5 DU	0.1 U	2.5 U	5 U	10 U
VOA TRIP BLANK	1/23/2023	VTRP230125Z	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U	0.5 U	5 DU	0.1 U	2.5 U	5 U	10 U
VOA TRIP BLANK	1/24/2023	VTRP230125Y	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U	0.5 U	5 DU	0.1 U	2.5 U	5 U	10 U
VOA TRIP BLANK	1/24/2023	VTRP230126X	0.1 U			0.1 U		1 U	0.5 U			2.5 U	2.5 U	
VOA TRIP BLANK	1/25/2023	VTRP230126Y	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U	0.5 U	5 DU	0.1 U	2.5 U	5 U	10 U
VOA TRIP BLANK	1/25/2023	VTRP230126Z2	0.1 U			0.1 U		1 U	0.5 U			2.5 U	2.5 U	
VOA TRIP BLANK	3/28/2023	VTRP230329Y	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	0.5 U	10 DU	0.1 U	2.5 U	2.5 U	5 U

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Well	Date	Sample ID	ACROLEIN	ACRYLO- NITRILE	BENZENE	BROMO- CHLORO- METHANE	BROMO- DI- CHLORO- METHANE	BROMO- FORM	BROMO- METHAN E	CARBON DI- SULFIDE	CARBON TETRA- CHLORIDE	CHLORO- BENZENE	CHLORO- DI-BROMO- METHANE	CHLORO- ETHANE	CHLORO- FORM
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-115	1/12/2023	W115230112-		0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
MW-114	1/12/2023	W114230112-		0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
MW-113	1/12/2023	W113230112-		0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
MW-112	1/25/2023	W112230125-	2.5 U	0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
MW-111	1/23/2023	W111230123-	2.5 U	0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
MW-110	1/19/2023	W110230119-	2.5 U	0.035 DU	0.367	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.756	0.5 U	0.1 U	0.1 U
MW-109	1/23/2023	W109230123-	25 U	0.35 DU	1.02 JT	1 U	2.5 U	5 U	1 U	1 U	2.5 U	1 U	5 U	1 U	1 U
MW-109	1/23/2023	W109230123D	25 U	0.35 DU	1.05 JT	1 U	2.5 U	5 U	1 U	1 U	2.5 U	1 U	5 U	1 U	1 U
MW-107	1/25/2023	W107230125-	2.5 U	0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
MW-103	1/25/2023	W103230125-	2.5 U	0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
MW-102	1/23/2023	W102230123-	2.5 U	0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
MW-101	1/26/2023	W101230126-		0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.17 JT	0.1 U
MW-94	1/17/2023	W94-230117-		0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
MW-93	1/10/2023	W93-230110-		0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
MW-93	1/10/2023	W93-230110D		0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
MW-85	1/10/2023	W85-230110-		0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
MW-84	1/10/2023	W84-230110-		0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
MW-83	1/17/2023	W83-230117-		0.035 DGU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
MW-81	1/10/2023	W81-230110-		0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
MW-80	1/18/2023	W80-230118-	2.5 U	0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
MW-75	1/19/2023	W75-230119-		0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
MW-74R	1/11/2023	W74R230111-		0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
MW-72	1/9/2023	W72-230109-		0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
MW-68	3/29/2023	W68-230329-	2.5 U	0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
MW-66	1/18/2023	W66-230118-		0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U

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Well	Date	Sample ID	ACROLEIN	ACRYLO- NITRILE	BENZENE	BROMO- CHLORO- METHANE	BROMO- DI- CHLORO- METHANE	BROMO- FORM	BROMO- METHAN E	CARBON DI- SULFIDE	CARBON TETRA- CHLORIDE	CHLORO- BENZENE	CHLORO- DI-BROMO- METHANE	CHLORO- ETHANE	CHLORO- FORM
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-62	1/26/2023	W62-230126-		0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
MW-59	1/17/2023	W59-230117-		0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
MW-47	1/26/2023	W47-230126-	2.5 U	0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
MW-30A	1/26/2023	W30A230126-	2.5 U	0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
FIELD BLANK	1/18/2023	W80-230118F	2.5 U	0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
VOA TRIP BLANK	1/4/2023	VTRP230109Z		0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
VOA TRIP BLANK	1/4/2023	VTRP230110X		0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
VOA TRIP BLANK	1/4/2023	VTRP230110Z		0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
VOA TRIP BLANK	1/10/2023	VTRP230111Z2		0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
VOA TRIP BLANK	1/10/2023	VTRP230112X		0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
VOA TRIP BLANK	1/11/2023	VTRP230117X		0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
VOA TRIP BLANK	1/12/2023	VTRP230118X		0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
VOA TRIP BLANK	1/12/2023	VTRP230119X		0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
VOA TRIP BLANK	1/17/2023	VTRP230118Z	2.5 U	0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
VOA TRIP BLANK	1/18/2023	VTRP230119X2	2.5 U	0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
VOA TRIP BLANK	1/19/2023	VTRP230123X	2.5 U	0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
VOA TRIP BLANK	1/19/2023	VTRP230123Z	2.5 U	0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
VOA TRIP BLANK	1/19/2023	VTRP230126Z	2.5 U	0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
VOA TRIP BLANK	1/23/2023	VTRP230125Z	2.5 U	0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
VOA TRIP BLANK	1/24/2023	VTRP230125Y	2.5 U	0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
VOA TRIP BLANK	1/24/2023	VTRP230126X		0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
VOA TRIP BLANK	1/25/2023	VTRP230126Y	2.5 U	0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
VOA TRIP BLANK	1/25/2023	VTRP230126Z2		0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U
VOA TRIP BLANK	3/28/2023	VTRP230329Y	2.5 U	0.035 DU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U

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Well	Date	Sample ID	CHLORO- METHANE	CHLORO- PRENE	CIS-1,2-DI- CHLORO- ETHENE	CIS-1,3-DI- CHLORO- PROPENE	DI-BROMO- METHANE	DI-CHLORO- DI-FLUORO- METHANE	ETHYL- BENZENE	M & P XYLENE	METHYL IODIDE	METHYL METHA- CRYLATE	METHYL- ACRYLO- NITRILE	METHYL- ENE CHLORID E
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-115	1/12/2023	W115230112-	0.25 U		0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U			2.5 U
MW-114	1/12/2023	W114230112-	0.25 U		0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U			2.5 U
MW-113	1/12/2023	W113230112-	0.25 U		0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U			2.5 U
MW-112	1/25/2023	W112230125-	0.25 U	0.1 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U	0.1 U	2.5 U
MW-111	1/23/2023	W111230123-	0.25 U	0.1 U	0.204	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U	0.1 U	2.5 U
MW-110	1/19/2023	W110230119-	0.25 U	0.1 U	4.52	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U	0.1 U	2.5 U
MW-109	1/23/2023	W109230123-	2.5 U	1 U	1 U	2.5 U	1 U	1 U	1 U	1 U	1 U	2.5 U	1 U	25 U
MW-109	1/23/2023	W109230123D	2.5 U	1 U	1 U	2.5 U	1 U	1 U	1 U	1 U	1 U	2.5 U	1 U	25 U
MW-107	1/25/2023	W107230125-	0.25 U	0.1 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U	0.1 U	2.5 U
MW-103	1/25/2023	W103230125-	0.25 U	0.1 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U	0.1 U	2.5 U
MW-102	1/23/2023	W102230123-	0.25 U	0.1 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U	0.1 U	2.5 U
MW-101	1/26/2023	W101230126-	0.25 U		0.206	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U			2.5 U
MW-94	1/17/2023	W94-230117-	0.25 U		0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U			2.5 U
MW-93	1/10/2023	W93-230110-	0.25 U		0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U			2.5 U
MW-93	1/10/2023	W93-230110D	0.25 U		0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U			2.5 U
MW-85	1/10/2023	W85-230110-	0.25 U		0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U			2.5 U
MW-84	1/10/2023	W84-230110-	0.25 U		0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U			2.5 U
MW-83	1/17/2023	W83-230117-	0.25 U		0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U			2.5 U
MW-81	1/10/2023	W81-230110-	0.25 U		0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U			2.5 U
MW-80	1/18/2023	W80-230118-	0.25 U	0.1 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U	0.1 U	2.5 U
MW-75	1/19/2023	W75-230119-	0.25 U		0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U			2.5 U
MW-74R	1/11/2023	W74R230111-	0.25 U		0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U			2.5 U
MW-72	1/9/2023	W72-230109-	0.25 U		0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U			2.5 U
MW-68	3/29/2023	W68-230329-	0.25 U	0.1 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U	0.1 U	2.5 U
MW-66	1/18/2023	W66-230118-	0.25 U		0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U			2.5 U

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Cedar Hills Regional Landfill --- Groundwater Volatile Organic Compounds Data

Well	Date	Sample ID	CHLORO- METHANE	CHLORO- PRENE	CIS-1,2-DI- CHLORO- ETHENE	CIS-1,3-DI- CHLORO- PROPENE	DI-BROMO- METHANE	DI-CHLORO- DI-FLUORO- METHANE	ETHYL- BENZENE	M & P XYLENE	METHYL IODIDE	METHYL METHA- CRYLATE	METHYL- ACRYLO- NITRILE	METHYL- ENE CHLORID E
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-62	1/26/2023	W62-230126-	0.25 U		0.415	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U			2.5 U
MW-59	1/17/2023	W59-230117-	0.25 U		1.26	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U			2.5 U
MW-47	1/26/2023	W47-230126-	0.25 U	0.1 U	0.968	0.25 U	0.1 U	2.61	0.1 U	0.1 U	0.1 U	0.25 U	0.1 U	2.5 U
MW-30A	1/26/2023	W30A230126-	0.25 U	0.1 U	2.3	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U	0.1 U	2.5 U
FIELD BLANK	1/18/2023	W80-230118F	0.25 U	0.1 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U	0.1 U	2.5 U
VOA TRIP BLANK	1/4/2023	VTRP230109Z	0.25 U		0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U			2.5 U
VOA TRIP BLANK	1/4/2023	VTRP230110X	0.25 U		0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U			2.5 U
VOA TRIP BLANK	1/4/2023	VTRP230110Z	0.25 U		0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U			2.5 U
VOA TRIP BLANK	1/10/2023	VTRP230111Z2	0.25 U		0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U			2.5 U
VOA TRIP BLANK	1/10/2023	VTRP230112X	0.25 U		0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U			2.5 U
VOA TRIP BLANK	1/11/2023	VTRP230117X	0.25 U		0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U			2.5 U
VOA TRIP BLANK	1/12/2023	VTRP230118X	0.25 U		0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U			2.5 U
VOA TRIP BLANK	1/12/2023	VTRP230119X	0.25 U		0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U			2.5 U
VOA TRIP BLANK	1/17/2023	VTRP230118Z	0.25 U	0.1 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U	0.1 U	2.5 U
VOA TRIP BLANK	1/18/2023	VTRP230119X2	0.25 U	0.1 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U	0.1 U	2.5 U
VOA TRIP BLANK	1/19/2023	VTRP230123X	0.25 U	0.1 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U	0.1 U	2.5 U
VOA TRIP BLANK	1/19/2023	VTRP230123Z	0.25 U	0.1 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U	0.1 U	2.5 U
VOA TRIP BLANK	1/19/2023	VTRP230126Z	0.25 U	0.1 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U	0.1 U	2.5 U
VOA TRIP BLANK	1/23/2023	VTRP230125Z	0.25 U	0.1 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U	0.1 U	2.5 U
VOA TRIP BLANK	1/24/2023	VTRP230125Y	0.25 U	0.1 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U	0.1 U	2.5 U
VOA TRIP BLANK	1/24/2023	VTRP230126X	0.25 U		0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U			2.5 U
VOA TRIP BLANK	1/25/2023	VTRP230126Y	0.25 U	0.1 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U	0.1 U	2.5 U
VOA TRIP BLANK	1/25/2023	VTRP230126Z2	0.25 U		0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U			2.5 U
VOA TRIP BLANK	3/28/2023	VTRP230329Y	0.25 U	0.1 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U	0.1 U	2.5 U

Environmental Monitoring Data

Data Collected from January 01, 2023 to March 31, 2023

Cedar Hills Regional Landfill --- Groundwater Volatile Organic Compounds Data

Well	Date	Sample ID	O-XYLENE	PROPIO-NITRILE	STYRENE	TETRA-CHLORO-ETHENE	TOLUENE	TRANS-1,2-DI-CHLORO-ETHENE	TRANS-1,3-DI-CHLORO-PROPENE	TRANS-1,4-DI-CHLORO-2-BUTENE	TRI-CHLORO-ETHENE	TRI-CHLORO-FLUORO-METHANE	VINYL ACETATE	VINYL CHLORIDE
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-115	1/12/2023	W115230112-	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U	4.77	0.1 U	0.1 U	0.01 DU
MW-114	1/12/2023	W114230112-	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U	9.12	0.1 U	0.1 U	0.01 DU
MW-113	1/12/2023	W113230112-	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 DU
MW-112	1/25/2023	W112230125-	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 DU
MW-111	1/23/2023	W111230123-	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	0.5 U	0.103 JT	0.1 U	0.1 U	0.01 DU
MW-110	1/19/2023	W110230119-	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U	0.175 JT	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.102 D
MW-109	1/23/2023	W109230123-	1 U	5 U	1 U	1 U	714	1 U	5 U	5 U	1 U	1 U	1 U	0.1 DU
MW-109	1/23/2023	W109230123D	1 U	5 U	1 U	1 U	698	1 U	5 U	5 U	1 U	1 U	1 U	0.01 DU
MW-107	1/25/2023	W107230125-	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 DU
MW-103	1/25/2023	W103230125-	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 DU
MW-102	1/23/2023	W102230123-	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 DU
MW-101	1/26/2023	W101230126-	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.281 D
MW-94	1/17/2023	W94-230117-	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U	1.87	0.1 U	0.1 U	0.01 DU
MW-93	1/10/2023	W93-230110-	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 DU
MW-93	1/10/2023	W93-230110D	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 DU
MW-85	1/10/2023	W85-230110-	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 DU
MW-84	1/10/2023	W84-230110-	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 DU
MW-83	1/17/2023	W83-230117-	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U	1.98	0.1 U	0.1 U	0.01 DU
MW-81	1/10/2023	W81-230110-	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 DU
MW-80	1/18/2023	W80-230118-	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 DU
MW-75	1/19/2023	W75-230119-	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 DU
MW-74R	1/11/2023	W74R230111-	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 DU
MW-72	1/9/2023	W72-230109-	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 DU
MW-68	3/29/2023	W68-230329-	0.1 U	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 DU
MW-66	1/18/2023	W66-230118-	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 DU

Environmental Monitoring Data

Data Collected from January 01, 2023 to March 31, 2023

Cedar Hills Regional Landfill --- Groundwater Volatile Organic Compounds Data

Well	Date	Sample ID	O-XYLENE ug/L	PROPIO-NITRILE ug/L	STYRENE ug/L	TETRA-CHLORO-ETHENE ug/L	TOLUENE ug/L	TRANS-1,2-DI-CHLORO-ETHENE ug/L	TRANS-1,3-DI-CHLORO-PROPENE ug/L	TRANS-1,4-DI-CHLORO-2-BUTENE ug/L	TRI-CHLORO-ETHENE ug/L	TRI-CHLORO-FLUORO-METHANE ug/L	VINYL ACETATE ug/L	VINYL CHLORIDE ug/L
MW-62	1/26/2023	W62-230126-	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 DU
MW-59	1/17/2023	W59-230117-	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 DU
MW-47	1/26/2023	W47-230126-	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	3.15 D
MW-30A	1/26/2023	W30A230126-	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	0.5 U	0.821	0.1 U	0.1 U	0.01 DU
FIELD BLANK	1/18/2023	W80-230118F	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 DU
VOA TRIP BLANK	1/4/2023	VTRP230109Z	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 DU
VOA TRIP BLANK	1/4/2023	VTRP230110X	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 DU
VOA TRIP BLANK	1/4/2023	VTRP230110Z	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 DU
VOA TRIP BLANK	1/10/2023	VTRP230111Z2	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 DU
VOA TRIP BLANK	1/10/2023	VTRP230112X	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 DU
VOA TRIP BLANK	1/11/2023	VTRP230117X	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 DU
VOA TRIP BLANK	1/12/2023	VTRP230118X	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 DU
VOA TRIP BLANK	1/12/2023	VTRP230119X	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 DU
VOA TRIP BLANK	1/17/2023	VTRP230118Z	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 DU
VOA TRIP BLANK	1/18/2023	VTRP230119X2	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 DU
VOA TRIP BLANK	1/19/2023	VTRP230123X	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 DU
VOA TRIP BLANK	1/19/2023	VTRP230123Z	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 DU
VOA TRIP BLANK	1/19/2023	VTRP230126Z	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 DU
VOA TRIP BLANK	1/23/2023	VTRP230125Z	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 DU
VOA TRIP BLANK	1/24/2023	VTRP230125Y	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 DU
VOA TRIP BLANK	1/24/2023	VTRP230126X	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 DU
VOA TRIP BLANK	1/25/2023	VTRP230126Y	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 DU
VOA TRIP BLANK	1/25/2023	VTRP230126Z2	0.1 U		0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 DU
VOA TRIP BLANK	3/28/2023	VTRP230329Y	0.1 U	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 DU

Storm and Surface Water Field and Analytical Data

Washington Department of Ecology

Electronic Submission Cover Letter



**WQWebDMR - Permit# WAR000756 - DMR Submission Id: 1875886 - 5/15/2023
11:54:13 AM**

Company Name	Signer Name	System Name
King County Solid Waste Division	Jennifer Keune	WQWebPortal

Attachments:

Document Name Or Description	Document Name
Submitted Copy of Record for King County Solid Waste Division	Copy of Record KingCountySolidWasteDivision Monday May 15 2023

Attestation Agreed to at Signing:

I certify I personally signed and submitted to the Department of Ecology an Electronic Signature Agreement. I understand that use of my electronic signature account/password to submit this information is equal to my written signature. I have read and followed all the rules of use in my Electronic Signature Agreement. I believe no one but me has had access to my password and other account information.

I further certify: I had the opportunity to review the content or meaning of the submittal before signing it; and to the best of my knowledge and belief, the information submitted is true, accurate, and complete. I intend to submit this information as part of the implementation, oversight, and enforcement of a federal environmental program. I am aware there are significant penalties for submitting false information, including possible fines and imprisonment.

For Ecology Use Only



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+WJK9gtK3l/tjl6nFf/Pc3ENw=



Permit Number: WAR000756

Permittee: CEDAR HILLS REGIONAL LANDFILL

Facility County: King

Receiving Waterbody: Unnamed stream

Monitoring Period: 01/01/2023 - 03/31/2023

Outfall: GS1 - Discharge to unnamed stream (wetland)

Version: 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Quarterly Grab	Oil & Grease Yes/No Quarterly Visual Observation	Copper Total Micrograms/L (ug/L) Quarterly Grab	Total BOD5 Total Milligrams/L (mg/L) Quarterly Grab	Solids (Residue) Total suspended (TSS) Milligrams/L (mg/L) Quarterly Grab	Ammonia Total Milligrams/L (mg/L) Quarterly Grab	Alpha-terpineol (3-Cyclohexene-1-methanol, alpha, alpha, trimethyl-) Micrograms/L (ug/L) Quarterly Grab	Benzoic Acid Micrograms/L (ug/L) Quarterly Grab	p-Cresol (4-methylphenol) Micrograms/L (ug/L) Quarterly Grab	Phenol Micrograms/L (ug/L) Quarterly Grab	Zinc Total Micrograms/L (ug/L) Quarterly Grab
		GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1
	Limit Set	ISGP Western WA - 2020 Permit	ISGP Western WA - 2020 Permit	ISGP Western WA - 2020 Permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit
2-F	1/13/23	A	No	A	<2	0.7	0.0731	<0.472	<9.43	<0.472	<0.472	J 2.3
Minimum												
Average		A		A								
		BM: <= 25		BM: <= 14								
Maximum												
Month 1 Average					<2	0.7	0.0731	<0.472	<9.43	<0.472	<0.472	J 2.3
					<= 37	<= 27	<= 4.9	<= 16	<= 71	<= 14	<= 15	<= 110
Month 2 Average					<2	0.7	0.0731	<0.472	<9.43	<0.472	<0.472	J 2.3
					<= 37	<= 27	<= 4.9	<= 16	<= 71	<= 14	<= 15	<= 110
Month 3 Average					<2	0.7	0.0731	<0.472	<9.43	<0.472	<0.472	J 2.3
					<= 37	<= 27	<= 4.9	<= 16	<= 71	<= 14	<= 15	<= 110

Reporting Codes Used: A - Consistent Attainment Of Benchmark, B - Below Detection Limit/No Detection, J - Estimated Value/Below Quantitation Limit



		pH Standard Units Quarterly Grab
Week	Monitoring Point	
		GS1
Limit Set		ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit
2-F	1/13/23	6.73
Minimum		6.73
		>= 6.0 (RO)
Average		
Maximum		6.73
		<= 9.0 (RO)
Month 1 Average		
Month 2 Average		
Month 3 Average		



Permit Number: WAR000756

Permittee: CEDAR HILLS REGIONAL LANDFILL

Facility County: King

Receiving Waterbody: Unnamed stream

Monitoring Period: 01/01/2023 - 03/31/2023

Outfall: N4 - Discharge to unnamed stream (McDonald Cr)

Version: 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Quarterly Grab	Oil & Grease Yes/No Quarterly Visual Observation	Copper Total Micrograms/L (ug/L) Quarterly Grab	Total BOD5 Total Milligrams/L (mg/L) Quarterly Grab	Solids (Residue) Total suspended (TSS) Milligrams/L (mg/L) Quarterly Grab	Ammonia Total Milligrams/L (mg/L) Quarterly Grab	Alpha-terpineol (3-Cyclohexene-1-methanol, alpha, alpha, trimethyl-) Micrograms/L (ug/L) Quarterly Grab	Benzoic Acid Micrograms/L (ug/L) Quarterly Grab	p-Cresol (4-methylphenol) Micrograms/L (ug/L) Quarterly Grab	Phenol Micrograms/L (ug/L) Quarterly Grab	Zinc Total Micrograms/L (ug/L) Quarterly Grab
		N4	N4	N4	N4	N4	N4	N4	N4	N4	N4	N4
		ISGP Western WA - 2020 Permit	ISGP Western WA - 2020 Permit	ISGP Western WA - 2020 Permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit
2-F	1/13/23	A	No	A	2.22	2.2	0.368	<0.485	<9.71	<0.485	<0.485	25.6
Minimum												
Average		A		A								
		BM: <= 25		BM: <= 14								
Maximum												
Month 1 Average					2.22	2.2	0.368	<0.485	<9.71	<0.485	<0.485	25.6
					<= 37	<= 27	<= 4.9	<= 16	<= 71	<= 14	<= 15	<= 110
Month 2 Average					2.22	2.2	0.368	<0.485	<9.71	<0.485	<0.485	25.6
					<= 37	<= 27	<= 4.9	<= 16	<= 71	<= 14	<= 15	<= 110
Month 3 Average					2.22	2.2	0.368	<0.485	<9.71	<0.485	<0.485	25.6
					<= 37	<= 27	<= 4.9	<= 16	<= 71	<= 14	<= 15	<= 110

Reporting Codes Used: A - Consistent Attainment Of Benchmark, B - Below Detection Limit/No Detection, J - Estimated Value/Below Quantitation Limit



		pH Standard Units Quarterly Grab	
Week	Monitoring Point		N4
Limit Set		ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit	
2-F	1/13/23	6.94	
Minimum		6.94	
		>= 6.0 (RO)	
Average			
Maximum		6.94	
		<= 9.0 (RO)	
Month 1 Average			
Month 2 Average			
Month 3 Average			



Permit Number: WAR000756

Permittee: CEDAR HILLS REGIONAL LANDFILL

Facility County: King

Receiving Waterbody: Unnamed stream

Monitoring Period: 01/01/2023 - 03/31/2023

Outfall: SL3 - Discharge to unnamed stream (ditch)

Version: 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Quarterly Grab	Oil & Grease Yes/No Quarterly Visual Observation	Copper Total Micrograms/L (ug/L) Quarterly Grab	Total BOD5 Total Milligrams/L (mg/L) Quarterly Grab	Solids (Residue) Total suspended (TSS) Milligrams/L (mg/L) Quarterly Grab	Ammonia Total Milligrams/L (mg/L) Quarterly Grab	Alpha-terpineol (3-Cyclohexene-1-methanol, alpha, alpha, trimethyl-) Micrograms/L (ug/L) Quarterly Grab	Benzoic Acid Micrograms/L (ug/L) Quarterly Grab	p-Cresol (4-methylphenol) Micrograms/L (ug/L) Quarterly Grab	Phenol Micrograms/L (ug/L) Quarterly Grab	Zinc Total Micrograms/L (ug/L) Quarterly Grab
		SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3
		ISGP Western WA - 2020 Permit	ISGP Western WA - 2020 Permit	ISGP Western WA - 2020 Permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit
2-F	1/13/23	A	No	A	<2	J 0.6	0.0064	<0.485	<9.71	<0.485	<0.485	3.05
Minimum												
Average		A		A								
		BM: <= 25		BM: <= 14								
Maximum												
Month 1 Average					<2	0.6	0.0064	<0.485	<9.71	<0.485	<0.485	3.05
					<= 37	<= 27	<= 4.9	<= 16	<= 71	<= 14	<= 15	<= 110
Month 2 Average					<2	J 0.6	0.0064	<0.485	<9.71	<0.485	<0.485	3.05
					<= 37	<= 27	<= 4.9	<= 16	<= 71	<= 14	<= 15	<= 110
Month 3 Average					<2	J 0.6	0.0064	<0.485	<9.71	<0.485	<0.485	3.05
					<= 37	<= 27	<= 4.9	<= 16	<= 71	<= 14	<= 15	<= 110

Reporting Codes Used: A - Consistent Attainment Of Benchmark, B - Below Detection Limit/No Detection, J - Estimated Value/Below Quantitation Limit

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Jennifer Keune

5/15/2023 11:54:12 AM

Signature

Date



		pH Standard Units Quarterly Grab
Week	Monitoring Point	SL3
Limit Set		ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit
2-F	1/13/23	6.79
Minimum		6.79
		>= 6.0 (RO)
Average		
Maximum		6.79
		<= 9.0 (RO)
Month 1 Average		
Month 2 Average		
Month 3 Average		

Environmental Monitoring Data
Data Collected from January 01, 2023 to March 31, 2023
Cedar Hills Regional Landfill --- Surface Water Data

Location	Date	Sample ID	Parameter	Unit	Result
SW-E1	1/18/2023	SE1-230118Q	1,1,1,2-Tetrachloroethane	ug/l	17161
SW-E1	1/18/2023	SE1-230118Q	1,1,1-Trichloroethane	ug/l	< 0.25
SW-E1	1/18/2023	SE1-230118Q	1,1,2,2-Tetrachloroethane	ug/l	< 0.1
SW-E1	1/18/2023	SE1-230118Q	1,1,2-Trichloroethane	ug/l	< 0.1
SW-E1	1/18/2023	SE1-230118Q	1,1-Dichloroethane	ug/l	< 0.1
SW-E1	1/18/2023	SE1-230118Q	1,1-Dichloroethene	ug/l	< 0.1
SW-E1	1/18/2023	SE1-230118Q	1,2,3-Trichloropropane	ug/l	< 0.1
SW-E1	1/18/2023	SE1-230118Q	1,2-Dibromo-3-Chloropropane	ug/l	< 0.1
SW-E1	1/18/2023	SE1-230118Q	1,2-Dibromoethane	ug/l	< 2.5
SW-E1	1/18/2023	SE1-230118Q	1,2-Dichlorobenzene	ug/l	< 0.1
SW-E1	1/18/2023	SE1-230118Q	1,2-Dichloroethane	ug/l	< 0.1
SW-E1	1/18/2023	SE1-230118Q	1,2-Dichloropropane	ug/l	< 0.1
SW-E1	1/18/2023	SE1-230118Q	1,4-Dichlorobenzene	ug/l	< 0.1
SW-E1	1/18/2023	SE1-230118Q	2-Butanone	ug/l	< 0.1
SW-E1	1/18/2023	SE1-230118Q	2-Hexanone	ug/l	< 1
SW-E1	1/18/2023	SE1-230118Q	4-Methyl-2-Pentanone	ug/l	< 0.5
SW-E1	1/18/2023	SE1-230118Q	Acetone	ug/l	< 2.5
SW-E1	1/18/2023	SE1-230118Q	Acrylonitrile	ug/l	< 2.5
SW-E1	1/18/2023	SE1-230118Q	Benzene	ug/l	< 0.035
SW-E1	1/18/2023	SE1-230118Q	Bromochloromethane	mg/l	11.5
SW-E1	1/18/2023	SE1-230118Q	Bromodichloromethane	ug/l	0.0027
SW-E1	1/18/2023	SE1-230118Q	Bromoform	mg/l	< 0.0003
SW-E1	1/18/2023	SE1-230118Q	Bromomethane	mg/l	< 0.0003
SW-E1	1/18/2023	SE1-230118Q	Carbon Disulfide	mg/l	0.000181
SW-E1	1/18/2023	SE1-230118Q	Carbon Tetrachloride	mg/l	0.000175
SW-E1	1/18/2023	SE1-230118Q	Chlorobenzene	mg/l	0.00285
SW-E1	1/18/2023	SE1-230118Q	Chlorodibromomethane	mg/l	0.0031
SW-E1	1/18/2023	SE1-230118Q	Chloroethane	mg/l	< 0.1
SW-E1	1/18/2023	SE1-230118Q	Chloroform	ug/l	< 0.0001
SW-E1	1/18/2023	SE1-230118Q	Chloromethane	ug/l	< 0.0001
SW-E1	1/18/2023	SE1-230118Q	cis-1,2-Dichloroethene	mg/l	< 0.1
SW-E1	1/18/2023	SE1-230118Q	cis-1,3-Dichloropropene	mg/l	< 0.25
SW-E1	1/18/2023	SE1-230118Q	Dibromomethane	mg/l	10.2
SW-E1	1/18/2023	SE1-230118Q	Dichlorodifluoromethane	ug/l	< 0.5
SW-E1	1/18/2023	SE1-230118Q	Ethylbenzene	ug/l	< 0.1
SW-E1	1/18/2023	SE1-230118Q	M & P Xylene	ug/l	< 0.00005
SW-E1	1/18/2023	SE1-230118Q	Methyl Iodide	ug/l	< 0.00005
SW-E1	1/18/2023	SE1-230118Q	Methylene Chloride	mg/l	4.41
SW-E1	1/18/2023	SE1-230118Q	O-Xylene	mg/l	3.99
SW-E1	1/18/2023	SE1-230118Q	Styrene	mg/l	< 0.1
SW-E1	1/18/2023	SE1-230118Q	Tetrachloroethene	mg/l	< 0.25
SW-E1	1/18/2023	SE1-230118Q	Toluene	ug/l	2.07
SW-E1	1/18/2023	SE1-230118Q	Trans-1,2-Dichloroethene	ug/l	< 0.1
SW-E1	1/18/2023	SE1-230118Q	Trans-1,3-Dichloropropene	mg/l	< 0.5
SW-E1	1/18/2023	SE1-230118Q	Trans-1,4-Dichloro-2-Butene	ug/l	< 0.1
SW-E1	1/18/2023	SE1-230118Q	Trichloroethene	ug/l	< 0.1
SW-E1	1/18/2023	SE1-230118Q	Trichlorofluoromethane	ug/l	< 0.25
SW-E1	1/18/2023	SE1-230118Q	Vinyl Acetate	ug/l	0.00242
SW-E1	1/18/2023	SE1-230118Q	Vinyl Chloride	ug/l	0.000461
SW-E1	1/18/2023	SE1-230118Q	Chromium, Total	mg/l	< 0.1
SW-E1	1/18/2023	SE1-230118Q	Chromium, Dissolved	mg/l	< 0.25
SW-E1	1/18/2023	SE1-230118Q	cis-1,2-dichloroethene	ug/l	0.0000638
SW-E1	1/18/2023	SE1-230118Q	cis-1,3-dichloropropene	ug/l	< 0.00005
SW-E1	1/18/2023	SE1-230118Q	Cobalt, Total	mg/l	0.000802
SW-E1	1/18/2023	SE1-230118Q	Cobalt, Dissolved	mg/l	0.000656
SW-E1	1/18/2023	SE1-230118Q	Copper, Total	mg/l	9.38
SW-E1	1/18/2023	SE1-230118Q	Copper, Dissolved	mg/l	10.2

Environmental Monitoring Data
Data Collected from January 01, 2023 to March 31, 2023
Cedar Hills Regional Landfill --- Surface Water Data

Location	Date	Sample ID	Parameter	Unit	Result
SW-E1	1/18/2023	SE1-230118Q	Dibromomethane	ug/l	< 0.1
SW-E1	1/18/2023	SE1-230118Q	Dichlorodifluoromethane	ug/l	< 0.1
SW-E1	1/18/2023	SE1-230118Q	Dissolved Oxygen, Field	mg/l	8.86
SW-E1	1/18/2023	SE1-230118Q	Ethylbenzene	ug/l	< 0.1
SW-E1	1/18/2023	SE1-230118Q	Iron, Total	mg/l	0.0931
SW-E1	1/18/2023	SE1-230118Q	Iron, Dissolved	mg/l	0.0676
SW-E1	1/18/2023	SE1-230118Q	Lead, Total	mg/l	< 0.0001
SW-E1	1/18/2023	SE1-230118Q	Lead, Dissolved	mg/l	< 0.0001
SW-E1	1/18/2023	SE1-230118Q	M & P Xylene	ug/l	< 0.1
SW-E1	1/18/2023	SE1-230118Q	Magnesium, Total	mg/l	0.953
SW-E1	1/18/2023	SE1-230118Q	Magnesium, Dissolved	mg/l	0.861
SW-E1	1/18/2023	SE1-230118Q	Manganese, Total	mg/l	0.0028
SW-E1	1/18/2023	SE1-230118Q	Manganese, Dissolved	mg/l	0.00313
SW-E1	1/18/2023	SE1-230118Q	Mercury, Total	mg/l	< 0.00005
SW-E1	1/18/2023	SE1-230118Q	Mercury, Dissolved	mg/l	< 0.00005
SW-E1	1/18/2023	SE1-230118Q	Methyl Iodide	ug/l	< 0.1
SW-E1	1/18/2023	SE1-230118Q	Methylene Chloride	ug/l	< 2.5
SW-E1	1/18/2023	SE1-230118Q	Nickel, Total	mg/l	0.00176
SW-E1	1/18/2023	SE1-230118Q	Nickel, Dissolved	mg/l	0.000469
SW-E1	1/18/2023	SE1-230118Q	Nitrate	mg/l	0.171
SW-E1	1/18/2023	SE1-230118Q	O-Xylene	ug/l	< 0
SW-E1	1/18/2023	SE1-230118Q	pH, Field	pH units	< 0.1
SW-E1	1/18/2023	SE1-230118Q	Phenol	ug/l	6.25
SW-E1	1/18/2023	SE1-230118Q	Potassium, Total	mg/l	0.515
SW-E1	1/18/2023	SE1-230118Q	Potassium, Dissolved	mg/l	0.46
SW-E1	1/18/2023	SE1-230118Q	Selenium, Total	mg/l	< 0.0005
SW-E1	1/18/2023	SE1-230118Q	Selenium, Dissolved	mg/l	< 0.0005
SW-E1	1/18/2023	SE1-230118Q	Silver, Total	mg/l	< 0.00004
SW-E1	1/18/2023	SE1-230118Q	Silver, Dissolved	mg/l	< 0.00004
SW-E1	1/18/2023	SE1-230118Q	Sodium, Total	mg/l	2.48
SW-E1	1/18/2023	SE1-230118Q	Sodium, Dissolved	mg/l	2.18
SW-E1	1/18/2023	SE1-230118Q	Specific Conductance, Field	umhos/cm	34.1
SW-E1	1/18/2023	SE1-230118Q	Specific Conductance	umhos/cm	38.9
SW-E1	1/18/2023	SE1-230118Q	Styrene	ug/l	< 0.1
SW-E1	1/18/2023	SE1-230118Q	Sulfate	mg/l	2.25
SW-E1	1/18/2023	SE1-230118Q	Temperature, Field	deg c	6.533
SW-E1	1/18/2023	SE1-230118Q	Tetrachloroethene	ug/l	< 0.1
SW-E1	1/18/2023	SE1-230118Q	Thallium, Total	mg/l	< 0.000075
SW-E1	1/18/2023	SE1-230118Q	Thallium, Dissolved	mg/l	< 0.000075
SW-E1	1/18/2023	SE1-230118Q	Toluene	ug/l	< 0.1
SW-E1	1/18/2023	SE1-230118Q	Total Dissolved Solids	mg/l	45
SW-E1	1/18/2023	SE1-230118Q	Total Organic Carbon	mg/l	3.63
SW-E1	1/18/2023	SE1-230118Q	Total Solids	mg/l	40
SW-E1	1/18/2023	SE1-230118Q	Total Suspended Solids	mg/l	0.6
SW-E1	1/18/2023	SE1-230118Q	Trans-1,2-Dichloroethene	ug/l	< 0.1
SW-E1	1/18/2023	SE1-230118Q	Trans-1,3-Dichloropropene	ug/l	< 0.5
SW-E1	1/18/2023	SE1-230118Q	Trans-1,4-Dichloro-2-Butene	ug/l	< 5
SW-E1	1/18/2023	SE1-230118Q	Trichloroethene	ug/l	< 0.1
SW-E1	1/18/2023	SE1-230118Q	Trichlorofluoroethane	ug/l	< 0.1
SW-E1	1/18/2023	SE1-230118Q	Turbidity, Field	ntu	1.39
SW-E1	1/18/2023	SE1-230118Q	Vanadium, Total	mg/l	0.000514
SW-E1	1/18/2023	SE1-230118Q	Vanadium, Dissolved	mg/l	0.000526
SW-E1	1/18/2023	SE1-230118Q	Vinyl Acetate	ug/l	< 0.1
SW-E1	1/18/2023	SE1-230118Q	Vinyl Chloride	ug/l	< 0.01
SW-E1	1/18/2023	SE1-230118Q	Zinc, Total	mg/l	0.00805
SW-E1	1/18/2023	SE1-230118Q	Zinc, Dissolved	mg/l	0.00252

Leachate Field and Analytical Data

Environmental Monitoring Data
Data Collected from January 01, 2023 to March 31, 2023
Cedar Hills Regional Landfill --- Leachate Field Parameters

Location	Date	Sample ID	pH	Specific Conductance	Temperature
			(Field) (std. Units)	(Field) (umho/cm)	(Field) (° C)
LS-A567	1/12/2023	L567230112I	7.71	15097	27.6
LS-A567	2/2/2023	L567230202I	7.69	15662	30.5
LS-A567	3/8/2023	L567230308I	7.76	16478	31.2
LS-A81	1/12/2023	LA81230112I	7.78	11008	10.7
LS-CSW	1/12/2023	LCSW230112I	7.64	121.7	9.4
LS-CSW	3/8/2023	LCSW230308D	6.87	506	6.9
LS-CSW	3/8/2023	LCSW230308I	6.87	506	6.9
LS-LEPS	1/4/2023	LEPS230104P	8.15	4083	8.8
LS-LEPS	1/11/2023	LEPS230111M	8.27	5368	10.7
LS-LEPS	1/11/2023	LEPS230111P	8.27	5368	10.7
LS-LEPS	1/18/2023	LEPS230118P	8.31	4742	
LS-LEPS	1/23/2023	LEPS230123P	8.26	4655	9.9
LS-LEPS	2/1/2023	LEPS230201M	8.46	4916	9.4
LS-LEPS	2/1/2023	LEPS230201P	8.46	4916	9.4
LS-LEPS	2/7/2023	LEPS230207P	8.4	5082	9.8
LS-LEPS	2/16/2023	LEPS230216P	8.54	5117	
LS-LEPS	2/22/2023	LEPS230222P	8.37	5078	10.3
LS-LEPS	2/28/2023	LEPS230228P	8.37	5842	10.1
LS-LEPS	3/9/2023	LEPS230309M	8.3	5456	8.7
LS-LEPS	3/9/2023	LEPS230309P	8.3	5456	8.7
LS-LEPS	3/14/2023	LEPS230314P	8.3	5242	10.2
LS-LEPS	3/21/2023	LEPS230321P	8.22	5664	12.2
LS-LEPS	3/28/2023	LEPS230328P	8.34	6068	11.8
LS-MH46N	1/11/2023	L46N230111M	7.14	8097	23.8
LS-MH46N	2/1/2023	L46N230201M	7.04	6698	25.8
LS-MH46N	3/9/2023	L46N230309M	7.18	6657	12.5
LS-PS1A	1/12/2023	LP1A230112I	7.06	568	10.5
LS-PS1A	2/2/2023	LP1A230202D	6.91	1535	12.1
LS-PS1A	2/2/2023	LP1A230202I	6.91	1535	12.1
LS-PS1A	3/8/2023	LP1A230308I	7.07	743	9.9
LS-PS2A	1/11/2023	LP2A230111D	5.83	81.7	9
LS-PS2A	1/11/2023	LP2A230111M	5.83	81.7	9
LS-PS2A	2/1/2023	LP2A230201M	5.99	90	8.2
LS-PS2A	3/9/2023	LP2A230309M	6.36	116.1	7.8
LS-V1A	1/11/2023	LV1A230111M	8.15	6009	15.1
LS-V1A	2/1/2023	LV1A230201M	8.23	3559	13.2
LS-V1A	3/9/2023	LV1A230309M	7.93	12234	13.2

Environmental Monitoring Data

Data Collected from January 01, 2023 to March 31, 2023

Cedar Hills Regional Landfill --- Leachate Conventional Analytical Data

Location	Date	Sample ID	Alkalinity, Bicarbonate mg/l	Alkalinity, Carbonate mg/l	Alkalinity, Total (As Caco3) mg/l	Ammonia As N mg/l	Biological Oxygen Demand - 5 Day mg/l	Chemical Oxygen Demand mg/l	Chloride mg/l	Coliforms, Fecal cfu/100ml	Coliforms, Total cfu/100ml	Cyanide mg/l
LS-A567	1/12/2023	L567230112I	1 U	6290	1290	317	2730	1730 S				0.69 U
LS-A567	2/2/2023	L567230202I	1 U	6810	1390	476	3230 S	1950				3.7 T
LS-A567	3/8/2023	L567230308I	1 U	6630	1320	636	3120	1920				5.1 U
LS-A81	1/12/2023	LA81230112I	1 U	4550	903	7800	11100	947 S				33.3
LS-CSW	1/12/2023	LCSW230112I	1 U	53.2	0.06	2.63	23.9	5.39 S				19.5
LS-CSW	3/8/2023	LCSW230308D	1 U	96.2	1.42 H	282	491	39.2				22 T
LS-CSW	3/8/2023	LCSW230308I	1 U	95.9	1.41 H	283	494	39.2				18.1
LS-LEPS	1/4/2023	LEPS230104P										
LS-LEPS	1/11/2023	LEPS230111M		2280	339	627	1590	467 S	11000	51000	0.008 SU	
LS-LEPS	1/11/2023	LEPS230111P										
LS-LEPS	1/18/2023	LEPS230118P										
LS-LEPS	1/23/2023	LEPS230123P										
LS-LEPS	2/1/2023	LEPS230201M		2210	396	268	1000	469	8000 C	28000	0.02 U	
LS-LEPS	2/1/2023	LEPS230201P										
LS-LEPS	2/7/2023	LEPS230207P										
LS-LEPS	2/16/2023	LEPS230216P										
LS-LEPS	2/22/2023	LEPS230222P										
LS-LEPS	2/28/2023	LEPS230228P										
LS-LEPS	3/9/2023	LEPS230309M		2360	436	272	1240	508	45000	190000 C	0.002 SU	
LS-LEPS	3/9/2023	LEPS230309P										
LS-LEPS	3/14/2023	LEPS230314P										
LS-LEPS	3/21/2023	LEPS230321P										
LS-LEPS	3/28/2023	LEPS230328P										
LS-MH46N	1/11/2023	L46N230111M		2550	439	52.5	1390	1310 S	1 U	23000	0.008 SU	
LS-MH46N	2/1/2023	L46N230201M		2250	442	43.1	1130	1090	1 U	130	0.02 SU	
LS-MH46N	3/9/2023	L46N230309M		2070	407	37.4	1040	1000	1 U	800 C	0.0072 ST	
LS-PS1A	1/12/2023	LP1A230112I	1 U	159	24.8	15.5	74.1	55.8 S				0.5 T
LS-PS1A	2/2/2023	LP1A230202D	1 U	551	109	47.4	231	169				1.7 T
LS-PS1A	2/2/2023	LP1A230202I	1 U	549	104	47.8	230	169				1.6 T
LS-PS1A	3/8/2023	LP1A230308I	1 U	245	46.7	16.4	85.7	69.8				2.2 U
LS-PS2A	1/11/2023	LP2A230111D		19.1	0.26	2 U	14 T	2.39 S	1 U	80	0.002 U	
LS-PS2A	1/11/2023	LP2A230111M		19.2	0.26	2 U	19 T	2.38 S	1 U	80	0.002 U	
LS-PS2A	2/1/2023	LP2A230201M		24	0.24	2 U	17 T	2.63	1 U	8	0.002 U	
LS-PS2A	3/9/2023	LP2A230309M		37	2.89	2 U	19 T	2.46	1 U	5 C	0.002 U	
LS-V1A	1/11/2023	LV1A230111M		2430	494	1230	2280	536 S	40000	290000	0.008 SU	
LS-V1A	2/1/2023	LV1A230201M		1610	342	939	1730	371	24000	220000	0.008 SU	
LS-V1A	3/9/2023	LV1A230309M		1670	369	908	1850	392	81000	380000 C	0.008 U	

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data

Data Collected from January 01, 2023 to March 31, 2023

Cedar Hills Regional Landfill --- Leachate Conventional Analytical Data

Location	Date	Sample ID	Fixed Suspended Solids mg/l	Fluoride mg/l	Hardness mg/l	Nitrate + Nitrite As N mg/l	Phosphorus , Soluble Reactive mg/l	Specific Conductance umhos/cm	Sulfate mg/l	Sulfide mg/l	Total Dissolved Solids mg/l	Total Fats, Oils & Grease mg/l
LS-A567	1/12/2023	L567230112I	2.19 S	369	0.1 U			15500	28.2 S	3.44	7290	
LS-A567	2/2/2023	L567230202I	10 U	335	0.12 T			17200	43	5.66	8000	
LS-A567	3/8/2023	L567230308I	50 U	385	0.25 HU			16800	39.5	4.59	7880	
LS-A81	1/12/2023	LA81230112I	100 SU	2140	0.02 U			11300	90.6 S	1.09	8890	
LS-CSW	1/12/2023	LCSW230112I	0.057 ST	61.1	0.157			148	12.3 S	0.01 U	107	
LS-CSW	3/8/2023	LCSW230308D	100 U	193	0.01 U			534	45.2	0.028 T	526	
LS-CSW	3/8/2023	LCSW230308I	100 U	198	0.01 U			535	45.3	0.025 T	506	
LS-LEPS	1/4/2023	LEPS230104P					1.33					
LS-LEPS	1/11/2023	LEPS230111M	10 SU		0.05 U	0.0224		5620	35.4 S	0.14 T		5.6 T
LS-LEPS	1/11/2023	LEPS230111P					1.85					
LS-LEPS	1/18/2023	LEPS230118P					2.5					
LS-LEPS	1/23/2023	LEPS230123P					2.57					
LS-LEPS	2/1/2023	LEPS230201M	0.64 T		0.11 T	0.0288		5460	26.6	0.15 T		2.5 T
LS-LEPS	2/1/2023	LEPS230201P					2.44					
LS-LEPS	2/7/2023	LEPS230207P					1.67					
LS-LEPS	2/16/2023	LEPS230216P					1.96					
LS-LEPS	2/22/2023	LEPS230222P					2.29					
LS-LEPS	2/28/2023	LEPS230228P					2.29					
LS-LEPS	3/9/2023	LEPS230309M	0.74 T		0.05 U	0.05 U		5790	13.4	0.16 T		1.9 U
LS-LEPS	3/9/2023	LEPS230309P					2.49					
LS-LEPS	3/14/2023	LEPS230314P					2.82					
LS-LEPS	3/21/2023	LEPS230321P					3.07					
LS-LEPS	3/28/2023	LEPS230328P					3.39					
LS-MH46N	1/11/2023	L46N230111M	1.9 ST		0.05 U	2.98	3.71	8610	0.97 ST	1.48		5.4 T
LS-MH46N	2/1/2023	L46N230201M	1.7 T		0.05 U	2.72	3.24	7520	2.6 T	0.516		4 T
LS-MH46N	3/9/2023	L46N230309M	1.6 T		0.05 U	2.63	3.24	6970	1 U	1.27		2.6 T
LS-PS1A	1/12/2023	LP1A230112I	0.15 ST	63	2.35			555	11.4 S	0.027 T	260	
LS-PS1A	2/2/2023	LP1A230202D	0.45 T	119	1.69			1690	15.3	0.035 T	673	
LS-PS1A	2/2/2023	LP1A230202I	0.45 T	117	1.67			1700	15.3	0.032 T	680	
LS-PS1A	3/8/2023	LP1A230308I	0.16 T	65.6	1.67			773	10.1	0.0433	311	
LS-PS2A	1/11/2023	LP2A230111D	0.0711 S		1.89	0.0147	0.993 U	87.9	8.61 S	0.01 U		3.9 T
LS-PS2A	1/11/2023	LP2A230111M	0.0697 S		1.89	0.0149	0.992 U	88.5	8.59 S	0.01 U		2.1 T
LS-PS2A	2/1/2023	LP2A230201M	0.0743		1.92	0.0164	0.1 U	95.5	8.48	0.01 U		2.1 T
LS-PS2A	3/9/2023	LP2A230309M	0.11 T		1.61	0.05 U	0.1 U	120	8.2	0.01 U		2 U
LS-V1A	1/11/2023	LV1A230111M	2 SU		0.784	1.4 T	3.56	6270	48.7 S	0.086 T		5.6 T
LS-V1A	2/1/2023	LV1A230201M	5 U		0.668	1.37	2.46	4480	28.9	0.05 U		4 T
LS-V1A	3/9/2023	LV1A230309M	10 U		0.833	0.79 T	2.4	4640	30.5	0.044 T		1.9 U

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data

Data Collected from January 01, 2023 to March 31, 2023

Cedar Hills Regional Landfill --- Leachate Conventional Analytical Data

Location	Date	Sample ID	Total Kjeldahl Nitrogen mg/l	Total Organic Carbon mg/l	Total Solids mg/l	Total Suspended Solids mg/l	Total Volatile Solids mg/l	Volatile Suspended Solids mg/l
LS-A567	1/12/2023	L567230112I	1290	895 S	7480	4.43	2570	4.15
LS-A567	2/2/2023	L567230202I	1400 S	1010 S	8020	19.5	2110	15.9
LS-A567	3/8/2023	L567230308I	1420	1160	8260	10 T	2790	10 T
LS-A81	1/12/2023	LA81230112I	844	3830 S	9860	64	5960	30.7
LS-CSW	1/12/2023	LCSW230112I	0.705	8.17 S	127	25.8	57.3	6.23
LS-CSW	3/8/2023	LCSW230308D	9.24	170	595	58.2	307	36.4
LS-CSW	3/8/2023	LCSW230308I	9.13	169	601	61.6	307	43.5
LS-LEPS	1/4/2023	LEPS230104P						
LS-LEPS	1/11/2023	LEPS230111M	458	474 S		310	1260	285
LS-LEPS	1/11/2023	LEPS230111P						
LS-LEPS	1/18/2023	LEPS230118P						
LS-LEPS	1/23/2023	LEPS230123P						
LS-LEPS	2/1/2023	LEPS230201M	435	206		345	830	305
LS-LEPS	2/1/2023	LEPS230201P						
LS-LEPS	2/7/2023	LEPS230207P						
LS-LEPS	2/16/2023	LEPS230216P						
LS-LEPS	2/22/2023	LEPS230222P						
LS-LEPS	2/28/2023	LEPS230228P						
LS-LEPS	3/9/2023	LEPS230309M	489	279		233 H	1040	220 H
LS-LEPS	3/9/2023	LEPS230309P						
LS-LEPS	3/14/2023	LEPS230314P						
LS-LEPS	3/21/2023	LEPS230321P						
LS-LEPS	3/28/2023	LEPS230328P						
LS-MH46N	1/11/2023	L46N230111M	536	442 S		0.61 U	790	0.61 U
LS-MH46N	2/1/2023	L46N230201M	470	340		0.6 T	885	0.5 T
LS-MH46N	3/9/2023	L46N230309M	426	350		0.53 U	950	0.53 U
LS-PS1A	1/12/2023	LP1A230112I	27.6	28 S	260	2.1	156	1.6
LS-PS1A	2/2/2023	LP1A230202D	106	72.2	709	9.09	191	7.42
LS-PS1A	2/2/2023	LP1A230202I	104	69.9	782	9.54	233	7.9
LS-PS1A	3/8/2023	LP1A230308I	46.3	32.6	312	5.2 T	109	4.3 T
LS-PS2A	1/11/2023	LP2A230111D	0.835	7.06 S		1	37.3	0.6 T
LS-PS2A	1/11/2023	LP2A230111M	0.856	7.02 S		1.1	38.7	0.7 T
LS-PS2A	2/1/2023	LP2A230201M	0.81	6.87		1.2 T	30	1 U
LS-PS2A	3/9/2023	LP2A230309M	3.64	7.92		0.76 T	56	0.76 U
LS-V1A	1/11/2023	LV1A230111M	534	770 S		69.1	2160	39.7
LS-V1A	2/1/2023	LV1A230201M	373	567		97.7	1030	40.9
LS-V1A	3/9/2023	LV1A230309M	372	684		57.7	1390	35 T

Environmental Monitoring Data
Data Collected from January 01, 2023 to March 31, 2023
Cedar Hills Regional Landfill --- Leachate Metal Analytical Data

Location	Date	Sample ID	Aluminum	Aluminum	Antimony	Antimony	Arsenic	Arsenic	Barium	Barium	Beryllium
			Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
			ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
LS-A567	1/12/2023	L567230112I	0.293	0.283	0.0166	0.0164	0.289	0.294	0.35	0.338	0.00101 U
LS-A567	2/2/2023	L567230202I	0.269	0.276	0.0187	0.0123	0.329	0.303	0.371	0.351	0.000987 U
LS-A567	3/8/2023	L567230308I	0.264	0.511	0.0126	0.0141	0.276	0.28	0.346	0.374	0.00102 U
LS-A81	1/12/2023	LA81230112I	0.116	0.641	0.0105	0.0124	0.0244	0.0343	0.212	0.353	0.001 U
LS-CSW	1/12/2023	LCSW230112I	0.0499 U	0.821	0.00299 U	0.00302 U	0.00103	0.00128	0.00907	0.0139	0.000998 U
LS-CSW	3/8/2023	LCSW230308D	0.0503	1.5	0.00143	0.0015	0.00219	0.00326	0.0429	0.064	0.0001 U
LS-CSW	3/8/2023	LCSW230308I	0.0706	1.46	0.00144	0.00144	0.00234	0.00333	0.0467	0.063	0.0001 U
LS-LEPS	1/4/2023	LEPS230104P		0.475		0.00728		0.0543		0.086	
LS-LEPS	1/11/2023	LEPS230111M	0.115		0.00964		0.0587		0.0881		0.00101 U
LS-LEPS	1/11/2023	LEPS230111P		0.521		0.00899		0.0699		0.0995	
LS-LEPS	1/18/2023	LEPS230118P		0.701		0.0085		0.0667		0.0869	
LS-LEPS	1/23/2023	LEPS230123P		0.551		0.00831		0.0598		0.0783	
LS-LEPS	2/1/2023	LEPS230201M	0.108		0.00917		0.0633		0.0697		0.00102 U
LS-LEPS	2/1/2023	LEPS230201P		0.658		0.00871		0.0648		0.0858	
LS-LEPS	2/7/2023	LEPS230207P		0.385		0.00879		0.0771		0.0868	
LS-LEPS	2/16/2023	LEPS230216P		0.585		0.00908		0.0756 D		0.087	
LS-LEPS	2/22/2023	LEPS230222P		0.724		0.00884		0.0666		0.0734	
LS-LEPS	2/28/2023	LEPS230228P		0.282		0.00919		0.0697		0.0892	
LS-LEPS	3/9/2023	LEPS230309M	0.132		0.00935		0.0647		0.0816		0.00103 U
LS-LEPS	3/9/2023	LEPS230309P		0.432		0.00876		0.0692		0.0819	
LS-LEPS	3/14/2023	LEPS230314P		0.401		0.00942		0.0669		0.0873	
LS-LEPS	3/21/2023	LEPS230321P		0.39		0.00969		0.07		0.0891	
LS-LEPS	3/28/2023	LEPS230328P		0.479		0.0109		0.0826		0.0955	
LS-MH46N	1/11/2023	L46N230111M		0.0506 U		0.00304 U		0.0836		0.317	
LS-MH46N	2/1/2023	L46N230201M		0.0509 U		0.00305 U		0.0773		0.253	
LS-MH46N	3/9/2023	L46N230309M		0.0502 U		0.00301 U		0.0781		0.236	
LS-PS1A	1/12/2023	LP1A230112I	0.0497 U	0.0653	0.00298 U	0.00299 U	0.00544	0.00613	0.0208	0.0206	0.000994 U
LS-PS1A	2/2/2023	LP1A230202D	0.05 U	0.0601	0.00658	0.00642	0.0245	0.0255	0.0546	0.0561	0.001 U
LS-PS1A	2/2/2023	LP1A230202I	0.0503 U	0.0616	0.00659	0.00665	0.0254	0.0257	0.057	0.0549	0.00101 U
LS-PS1A	3/8/2023	LP1A230308I	0.019	0.0494	0.0044	0.00432	0.0137	0.0145	0.0248	0.0249	0.0001 U
LS-PS2A	1/11/2023	LP2A230111D		0.0781		0.00298 U		0.000943		0.00497 U	
LS-PS2A	1/11/2023	LP2A230111M		0.0724		0.00298 U		0.000845		0.00496 U	
LS-PS2A	2/1/2023	LP2A230201M		0.0668		0.000723		0.000976		0.00395	
LS-PS2A	3/9/2023	LP2A230309M		0.0587		0.0011		0.00177		0.00452	
LS-V1A	1/11/2023	LV1A230111M	0.175	1.59	0.0124	0.0129	0.0797	0.0878	0.081	0.111	0.00101 U
LS-V1A	2/1/2023	LV1A230201M	0.178	2.71	0.0112	0.0119	0.095	0.0947	0.0744	0.0945	0.00101 U
98 LS-V1A	3/9/2023	LV1A230309M	0.149	1.17	0.0103	0.0106	0.0771	0.0805	0.0878	0.0956	0.00101 U

Environmental Monitoring Data
Data Collected from January 01, 2023 to March 31, 2023
Cedar Hills Regional Landfill --- Leachate Metal Analytical Data

Location	Date	Sample ID	Beryllium	Cadmium	Cadmium	Calcium	Calcium	Chromium	Chromium	Cobalt	Cobalt
			Total ug/l	Dissolved ug/l	Total ug/l	Dissolved ug/l	Total ug/l	Dissolved ug/l	Total ug/l	Dissolved ug/l	Total ug/l
LS-A567	1/12/2023	L567230112I	0.00101 U	0.000503 U	0.000505 U	57.1	55.7	0.128	0.128	0.048	0.0475
LS-A567	2/2/2023	L567230202I	0.000989 U	0.000494 U	0.000494 U	49.5	46.9	0.137	0.131	0.052	0.0511
LS-A567	3/8/2023	L567230308I	0.00101 U	0.000511 U	0.000506 U	49.1	54.8	0.134	0.136	0.0485	0.0506
LS-A81	1/12/2023	LA81230112I	0.00101 U	0.0005 U	0.000505 U	668	647	0.0772	0.0993	0.0155	0.0199
LS-CSW	1/12/2023	LCSW230112I	0.00101 U	0.000499 U	0.000504 U	19.6	18.3	0.002 U	0.00202 U	0.000686	0.00117
LS-CSW	3/8/2023	LCSW230308D	0.0001 U	5E-05 U	0.000107	60.6	59.3	0.00448	0.00728	0.00767	0.00887
LS-CSW	3/8/2023	LCSW230308I	0.0001 U	5E-05 U	0.000109	60.9	61	0.00409	0.00693	0.00793	0.00888
LS-LEPS	1/4/2023	LEPS230104P	0.001 U		0.000501 U		93.3		0.0406		0.0101
LS-LEPS	1/11/2023	LEPS230111M		0.000505 U		101		0.0537		0.0124	
LS-LEPS	1/11/2023	LEPS230111P	0.000998 U		0.000499 U		98.8		0.055		0.013
LS-LEPS	1/18/2023	LEPS230118P	0.001 U		0.0005 U		91.2		0.0501		0.0122
LS-LEPS	1/23/2023	LEPS230123P	0.001 U		0.000502 U		82.8		0.0464		0.0109
LS-LEPS	2/1/2023	LEPS230201M		0.00051 U		75.2		0.0514		0.0119	
LS-LEPS	2/1/2023	LEPS230201P	0.00101 U		0.000505 U		79.9		0.0524		0.0126
LS-LEPS	2/7/2023	LEPS230207P	0.00101 U		0.000507 U		75.9		0.051		0.0136
LS-LEPS	2/16/2023	LEPS230216P	0.00104 U		0.000519 U		69.4		0.0522		0.0136
LS-LEPS	2/22/2023	LEPS230222P	0.00102 U		0.00051 U		69.6		0.0516		0.0132
LS-LEPS	2/28/2023	LEPS230228P	0.001 U		0.0005 U		75		0.0566		0.0134
LS-LEPS	3/9/2023	LEPS230309M		0.000513 U		69.9		0.0548		0.0122	
LS-LEPS	3/9/2023	LEPS230309P	0.00102 U		0.000508 U		69.5		0.053		0.0134
LS-LEPS	3/14/2023	LEPS230314P	0.001 U		0.000501 U		74.8		0.0535		0.0134
LS-LEPS	3/21/2023	LEPS230321P	0.00102 U		0.000509 U		76		0.0563		0.0142
LS-LEPS	3/28/2023	LEPS230328P	0.000995 U		0.000497 U		71		0.0612		0.0159
LS-MH46N	1/11/2023	L46N230111M	0.00101 U		0.000506 U		73.4		0.0736		0.0267
LS-MH46N	2/1/2023	L46N230201M	0.00102 U		0.000509 U		61.4		0.064		0.0235
LS-MH46N	3/9/2023	L46N230309M	0.001 U		0.000502 U		59.5		0.0563		0.0199
LS-PS1A	1/12/2023	LP1A230112I	0.000996 U	0.000497 U	0.000498 U	16.7	15.7	0.00341	0.00346	0.00134	0.0014
LS-PS1A	2/2/2023	LP1A230202D	0.00101 U	0.0005 U	0.000507 U	29	29	0.00834	0.0088	0.0042	0.00471
LS-PS1A	2/2/2023	LP1A230202I	0.001 U	0.000503 U	0.000502 U	29.4	28.3	0.00855	0.00874	0.00429	0.00464
LS-PS1A	3/8/2023	LP1A230308I	0.0001 U	5E-05 U	5E-05 U	16.4	16.3	0.00352	0.00358	0.00184	0.00194
LS-PS2A	1/11/2023	LP2A230111D	0.000993 U		0.000497 U		8.54		0.00199 U		0.000497 U
LS-PS2A	1/11/2023	LP2A230111M	0.000992 U		0.000496 U		8.28		0.00198 U		0.000496 U
LS-PS2A	2/1/2023	LP2A230201M	0.0001 U		5E-05 U		9.6		0.00157		0.000207
LS-PS2A	3/9/2023	LP2A230309M	0.0001 U		5.75E-05		9.65		0.00135		0.000208
LS-V1A	1/11/2023	LV1A230111M	0.00101 U	0.000505 U	0.000505 U	92	90.1	0.0601	0.0623	0.0139	0.0157
LS-V1A	2/1/2023	LV1A230201M	0.00101 U	0.000505 U	0.000507 U	46.1	49.2	0.038	0.0431	0.0104	0.0127
LS-V1A	3/9/2023	LV1A230309M	0.00101 U	0.000506 U	0.000506 U	52.1	52.5	0.0388	0.0405	0.0115	0.0133

Environmental Monitoring Data
Data Collected from January 01, 2023 to March 31, 2023
Cedar Hills Regional Landfill --- Leachate Metal Analytical Data

Location	Date	Sample ID	Copper Dissolved ug/l	Copper Total ug/l	Iron Dissolved ug/l	Iron Total ug/l	Lead Dissolved ug/l	Lead Total ug/l	Magnesium Dissolved ug/l	Magnesium Total ug/l	Manganese Dissolved ug/l	Manganese Total ug/l
LS-A567	1/12/2023	L567230112I	0.003	0.0141	1.94	2.25	0.00101 U	0.00106	56.5	55.9	0.392	0.375
LS-A567	2/2/2023	L567230202I	0.00315	0.0181	2.08	2.68	0.000987 U	0.00114	55.7	53	0.316	0.3
LS-A567	3/8/2023	L567230308I	0.00384	0.0305	2.03	11.8	0.00102 U	0.00232	60.5	60.3	0.306	0.385
LS-A81	1/12/2023	LA81230112I	0.002 U	0.00495	7.13	21.2	0.001 U	0.00122	124	127	3.42	3.21
LS-CSW	1/12/2023	LCSW230112I	0.00355	0.00668	0.185	1.31	0.000998 U	0.00101 U	3.32	3.71	0.511	0.538
LS-CSW	3/8/2023	LCSW230308D	0.00167	0.00828	1.79	4.94	0.00016	0.00118	10.2	10.9	1.84	1.95 D
LS-CSW	3/8/2023	LCSW230308I	0.00197	0.00818	2.06	4.87	0.000253	0.00115	10.4	11	1.87	1.96 D
LS-LEPS	1/4/2023	LEPS230104P		0.00776		4		0.001 U		32.4		0.867
LS-LEPS	1/11/2023	LEPS230111M	0.00204		3.28		0.00101 U		43.3		0.828	
LS-LEPS	1/11/2023	LEPS230111P		0.00754		4.57		0.000998 U		40.7		0.899
LS-LEPS	1/18/2023	LEPS230118P		0.00667		4.4		0.001 U		38.3		0.745
LS-LEPS	1/23/2023	LEPS230123P		0.00628		3.77		0.001 U		37.1		0.667
LS-LEPS	2/1/2023	LEPS230201M	0.00233		2.57		0.00102 U		39.1		0.33	
LS-LEPS	2/1/2023	LEPS230201P		0.00597		3.65		0.00101 U		39.1		0.777
LS-LEPS	2/7/2023	LEPS230207P		0.00508		3.44		0.00101 U		40.9		0.769
LS-LEPS	2/16/2023	LEPS230216P		0.00627		3.45		0.00104 U		38.8		0.654
LS-LEPS	2/22/2023	LEPS230222P		0.00549		3.35		0.00102 U		37.8		0.61
LS-LEPS	2/28/2023	LEPS230228P		0.00348		2.93		0.001 U		40.8		0.625
LS-LEPS	3/9/2023	LEPS230309M	0.00205 U		2.55		0.00103 U		40.7		0.602	
LS-LEPS	3/9/2023	LEPS230309P		0.00441		2.99		0.00102 U		39		0.656
LS-LEPS	3/14/2023	LEPS230314P		0.00485		3.93		0.001 U		37.3		0.862
LS-LEPS	3/21/2023	LEPS230321P		0.00473		4.12		0.00102 U		41.2		0.822
LS-LEPS	3/28/2023	LEPS230328P		0.00497		3.85		0.000995 U		43.3		0.747
LS-MH46N	1/11/2023	L46N230111M		0.00203 U		1.94		0.00101 U		41.2		0.43
LS-MH46N	2/1/2023	L46N230201M		0.00204 U		1.96		0.00102 U		35.8		0.425
LS-MH46N	3/9/2023	L46N230309M		0.00201 U		1.88		0.001 U		33.8		0.462
LS-PS1A	1/12/2023	LP1A230112I	0.0101	0.0112	0.201	0.47	0.000994 U	0.000996 U	5.87	5.78	0.0773	0.0803
LS-PS1A	2/2/2023	LP1A230202D	0.00396	0.00767	0.705	1.29	0.001 U	0.00101 U	11.2	11.2	0.207	0.214
LS-PS1A	2/2/2023	LP1A230202I	0.00417	0.00758	0.72	1.31	0.00101 U	0.001 U	11.5	11.2	0.21	0.217
LS-PS1A	3/8/2023	LP1A230308I	0.00532	0.0075	0.359	0.683	0.0001 U	0.0001 U	6.11	6.05	0.149	0.147
LS-PS2A	1/11/2023	LP2A230111D		0.0199		0.461		0.000993 U		3.21		0.0187
LS-PS2A	1/11/2023	LP2A230111M		0.0201		0.434		0.000992 U		3.19		0.0191
LS-PS2A	2/1/2023	LP2A230201M		0.0196		0.54		0.0001 U		3.61		0.0233
LS-PS2A	3/9/2023	LP2A230309M		0.0166		0.338		0.0001 U		3.7		0.0272
LS-V1A	1/11/2023	LV1A230111M	0.0029	0.00932	3.99	7.77	0.00101 U	0.00136	44.3	44	0.894	0.958
LS-V1A	2/1/2023	LV1A230201M	0.00345	0.0112	1.88	5.06	0.00101 U	0.00174	27.8	28	0.519	0.649
LS-V1A	3/9/2023	LV1A230309M	0.00289	0.00868	2.02	3.66	0.00101 U	0.00107	28.1	28.4	0.811	0.86

Environmental Monitoring Data
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Cedar Hills Regional Landfill --- Leachate Metal Analytical Data

Location	Date	Sample ID	Mercury	Mercury	Nickel	Nickel	Potassium	Potassium	Selenium	Selenium	Silver	Silver
			Dissolved ug/l	Total ug/l	Dissolved ug/l	Total ug/l	Dissolved ug/l	Total ug/l	Dissolved ug/l	Total ug/l	Dissolved ug/l	Total ug/l
LS-A567	1/12/2023	L567230112I	0.0001 U	0.0001 U	0.171	0.174	498	493	0.00503 U	0.00505 U	0.000402 U	0.000404 U
LS-A567	2/2/2023	L567230202I	0.0001 U	0.0001 U	0.169	0.171	558	537	0.00494 U	0.00494 U	0.000395 U	0.000395 U
LS-A567	3/8/2023	L567230308I	0.0001 U	0.0001 U	0.165	0.179	546	537	0.00511 U	0.00506 U	0.000409 U	0.000405 U
LS-A81	1/12/2023	LA81230112I	0.0001 U	0.0001 U	0.144	0.158	403	388	0.005 U	0.00505 U	0.0004 U	0.000404 U
LS-CSW	1/12/2023	LCSW230112I	0.0001 U	0.0001 U	0.00156	0.00299	2.46	2.36	0.00499 U	0.00504 U	0.000399 U	0.000403 U
LS-CSW	3/8/2023	LCSW230308D	0.0001 U	0.0001 U	0.0106	0.0131	11.6	11.9	0.0005 U	0.000551	4E-05 U	4E-05 U
LS-CSW	3/8/2023	LCSW230308I	0.0001 U	0.0001 U	0.0106	0.0128	11.7	12.3	0.0005 U	0.000622	4E-05 U	4E-05 U
LS-LEPS	1/4/2023	LEPS230104P		0.0001 U		0.0454		134		0.00501 U		0.000401 U
LS-LEPS	1/11/2023	LEPS230111M	0.0001 U		0.0566		200		0.00505 U		0.000404 U	
LS-LEPS	1/11/2023	LEPS230111P		0.0001 U		0.0574 D		179		0.00499 U		0.000399 U
LS-LEPS	1/18/2023	LEPS230118P		0.0001 U		0.0544		176		0.005 U		0.0004 U
LS-LEPS	1/23/2023	LEPS230123P		0.0001 U		0.0493		162		0.00502 U		0.000402 U
LS-LEPS	2/1/2023	LEPS230201M	0.0001 U		0.0549		187		0.0051 U		0.000408 U	
LS-LEPS	2/1/2023	LEPS230201P		0.0001 U		0.0548		178		0.00505 U		0.000404 U
LS-LEPS	2/7/2023	LEPS230207P		0.0001 U		0.0596		190		0.00507 U		0.000406 U
LS-LEPS	2/16/2023	LEPS230216P		0.0001 U		0.0565		186		0.00519 U		0.000415 U
LS-LEPS	2/22/2023	LEPS230222P		0.0001 U		0.0528		173		0.0051 U		0.000408 U
LS-LEPS	2/28/2023	LEPS230228P		0.0001 U		0.0572		187		0.005 U		0.0004 U
LS-LEPS	3/9/2023	LEPS230309M	0.0001 U		0.055		194		0.00513 U		0.00041 U	
LS-LEPS	3/9/2023	LEPS230309P		0.0001 U		0.0568		185		0.00508 U		0.000406 U
LS-LEPS	3/14/2023	LEPS230314P		0.0001 U		0.0542		177		0.00501 U		0.000401 U
LS-LEPS	3/21/2023	LEPS230321P		0.0001 U		0.057		187		0.00509 U		0.000407 U
LS-LEPS	3/28/2023	LEPS230328P		0.0001 U		0.0639		207		0.00497 U		0.000398 U
LS-MH46N	1/11/2023	L46N230111M		0.0001 U		0.109		279		0.00506 U		0.000405 U
LS-MH46N	2/1/2023	L46N230201M		0.0001 U		0.0891		238		0.00509 U		0.000407 U
LS-MH46N	3/9/2023	L46N230309M		0.0001 U		0.0835		233		0.00502 U		0.000402 U
LS-PS1A	1/12/2023	LP1A230112I	0.0001 U	0.0001 U	0.00702	0.00824	14.4	12.8	0.00497 U	0.00498 U	0.000397 U	0.000398 U
LS-PS1A	2/2/2023	LP1A230202D	0.0001 U	0.0001 U	0.0169	0.0177	43.1	42	0.005 U	0.00507 U	0.0004 U	0.000405 U
LS-PS1A	2/2/2023	LP1A230202I	0.0001 U	0.0001 U	0.0174	0.0176	43	42	0.00503 U	0.00502 U	0.000403 U	0.000401 U
LS-PS1A	3/8/2023	LP1A230308I	0.0001 U	0.0001 U	0.00854	0.00883	16.8	16.4	0.0005 U	0.0005 U	4E-05 U	4E-05 U
LS-PS2A	1/11/2023	LP2A230111D		0.0001 U		0.00543		1.28		0.00497 U		0.000397 U
LS-PS2A	1/11/2023	LP2A230111M		0.0001 U		0.00551		1.23		0.00496 U		0.000397 U
LS-PS2A	2/1/2023	LP2A230201M		0.0001 U		0.00545		1.35		0.0005 U		4E-05 U
LS-PS2A	3/9/2023	LP2A230309M		0.0001 U		0.0054		1.41		0.0005 U		4E-05 U
LS-V1A	1/11/2023	LV1A230111M	0.0001 U	0.0001 U	0.059	0.0649	212	200	0.00505 U	0.00505 U	0.000404 U	0.000404 U
LS-V1A	2/1/2023	LV1A230201M	0.0001 U	0.0001 U	0.0354	0.0412	138	133	0.00505 U	0.00507 U	0.000404 U	0.000406 U
LS-V1A	3/9/2023	LV1A230309M	0.0001 U	0.0001 U	0.0393	0.0438	142	139	0.00506 U	0.00506 U	0.000405 U	0.000405 U

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Location	Date	Sample ID	Sodium	Sodium	Thallium	Thallium	Tin	Tin	Vanadium	Vanadium	Zinc	Zinc
			Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total
			ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
LS-A567	1/12/2023	L567230112I	1850	1790	0.000754 U	0.000757 U	0.0238	0.0246	0.113 D	0.114	0.0262	0.0504
LS-A567	2/2/2023	L567230202I	1970	1850	0.000741 U	0.000741 U	0.0283	0.0214	0.112	0.117	0.0171	0.0389
LS-A567	3/8/2023	L567230308I	1890	1880	0.000766 U	0.000759 U	0.0272	0.0279	0.107	0.116	0.0215	0.111
LS-A81	1/12/2023	LA81230112I	1080	982	0.00075 U	0.000757 U	0.005 U	0.00869	0.022 D	0.0266	0.0689	0.841
LS-CSW	1/12/2023	LCSW230112I	5.94	5.54	0.000749 U	0.000756 U	0.00499 U	0.00504 U	0.000932 D	0.00233	0.00499 U	0.00781
LS-CSW	3/8/2023	LCSW230308D	33.1	34.1	7.5E-05 U	7.5E-05 U	0.0005 U	0.00069	0.000936	0.00533	0.162	0.283
LS-CSW	3/8/2023	LCSW230308I	34	33.8	7.5E-05 U	7.5E-05 U	0.0005 U	0.000654	0.00122	0.00524	0.189	0.28
LS-LEPS	1/4/2023	LEPS230104P		381		0.000751 U		0.00501 U		0.0152		0.136
LS-LEPS	1/11/2023	LEPS230111M	544		0.000758 U		0.00554		0.0183 D		0.0444	
LS-LEPS	1/11/2023	LEPS230111P		493		0.000749 U		0.00499 U		0.0196		0.171
LS-LEPS	1/18/2023	LEPS230118P		463		0.00075 DU		0.005 U		0.0186		0.14
LS-LEPS	1/23/2023	LEPS230123P		426		0.000753 U		0.00502 U		0.0164		0.107
LS-LEPS	2/1/2023	LEPS230201M	507		0.000764 U		0.00568		0.0172		0.0474	
LS-LEPS	2/1/2023	LEPS230201P		496		0.000757 U		0.00518		0.0187		0.109
LS-LEPS	2/7/2023	LEPS230207P		519		0.000761 U		0.00507 U		0.0198		0.117
LS-LEPS	2/16/2023	LEPS230216P		504		0.000779 U		0.00519 U		0.0196 D		0.11
LS-LEPS	2/22/2023	LEPS230222P		481		0.000765 U		0.0051 U		0.0191		0.0897
LS-LEPS	2/28/2023	LEPS230228P		511		0.00075 U		0.00584		0.0199		0.0896
LS-LEPS	3/9/2023	LEPS230309M	522		0.00077 U		0.00556		0.0194		0.0309	
LS-LEPS	3/9/2023	LEPS230309P		495		0.000762 U		0.00508 U		0.0193		0.092
LS-LEPS	3/14/2023	LEPS230314P		458		0.000752 U		0.00501 U		0.0188		0.102 D
LS-LEPS	3/21/2023	LEPS230321P		508		0.000764 U		0.00563		0.0196		0.109
LS-LEPS	3/28/2023	LEPS230328P		574		0.000746 U		0.0055		0.0215 D		0.113
LS-MH46N	1/11/2023	L46N230111M		987		0.00076 U		0.00506 U		0.0899		0.00506 U
LS-MH46N	2/1/2023	L46N230201M		822		0.000764 U		0.00509 U		0.0748		0.00509 U
LS-MH46N	3/9/2023	L46N230309M		771		0.000753 U		0.00502 U		0.067		0.00502 U
LS-PS1A	1/12/2023	LP1A230112I	52.3	49.7	0.000745 U	0.000747 U	0.00497 U	0.00498 U	0.00418 D	0.00371	0.0143	0.014
LS-PS1A	2/2/2023	LP1A230202D	153	151	0.00075 U	0.00076 U	0.005 U	0.00507 U	0.00921	0.0115	0.0182	0.0197
LS-PS1A	2/2/2023	LP1A230202I	157	153	0.000755 U	0.000752 U	0.00503 U	0.00502 U	0.00953	0.0118	0.0201	0.0205
LS-PS1A	3/8/2023	LP1A230308I	61.5	62.2	7.5E-05 U	7.5E-05 U	0.0005 U	0.0005 U	0.00403	0.00427	0.0133	0.0148
LS-PS2A	1/11/2023	LP2A230111D		2.49		0.000745 U		0.00497 U		0.00153		0.0148
LS-PS2A	1/11/2023	LP2A230111M		2.35		0.000744 U		0.00496 U		0.00152		0.0157
LS-PS2A	2/1/2023	LP2A230201M		2.84		7.5E-05 U		0.0005 U		0.00191		0.0128
LS-PS2A	3/9/2023	LP2A230309M		2.98		7.5E-05 U		0.0005 U		0.00122		0.0116
LS-V1A	1/11/2023	LV1A230111M	586	542	0.000758 U	0.000758 U	0.0064	0.00709	0.0196 D	0.0224	0.0499	0.158
LS-V1A	2/1/2023	LV1A230201M	408	384	0.000758 U	0.000761 U	0.00537	0.00603	0.0151	0.02	0.0284	0.0719
LS-V1A	3/9/2023	LV1A230309M	407	416	0.000759 U	0.000759 U	0.00548	0.00543	0.0154	0.018	0.076	0.127

Environmental Monitoring Data
Data Collected from January 01, 2023 to March 31, 2023
Cedar Hills Regional Landfill ---Leachate VOAs Analytical Data

Location	Date	Sample ID	1,1,1,2-Tetra- chloroethane (ug/L)	1,1,1-Tri- chloroethane (ug/L)	1,1,2,2-Tetra- chloroethane (ug/L)	1,1,2-Tri- chloroethane (ug/L)	1,1-Dichloro- ethane (ug/L)	1,1-Dichloro- ethene (ug/L)	1,1-Dichloro- propene (ug/L)	1,2,3-Trichloro- propane (ug/L)
LS-LEPS	1/11/2023	LEPS230111M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-LEPS	2/1/2023	LEPS230201M	2.5 HU	1 HU	1 HU	1 HU	1 HU	1 HU	1 HU	1 HU
LS-LEPS	3/9/2023	LEPS230309M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-MH46N	1/11/2023	L46N230111M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-MH46N	2/1/2023	L46N230201M	2.5 HU	1 HU	1 HU	1 HU	1 GHU	1 HU	1 HU	1 HU
LS-MH46N	3/9/2023	L46N230309M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-PS2A	1/11/2023	LP2A230111D	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-PS2A	1/11/2023	LP2A230111M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-PS2A	2/1/2023	LP2A230201M	2.5 HU	1 HU	1 HU	1 HU	1 HU	1 HU	1 HU	1 HU
LS-PS2A	3/9/2023	LP2A230309M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-V1A	1/11/2023	LV1A230111M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-V1A	2/1/2023	LV1A230201M	2.5 HU	1 HU	1 HU	1 HU	1 HU	1 HU	1 HU	1 HU
LS-V1A	3/9/2023	LV1A230309M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data
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Cedar Hills Regional Landfill ---Leachate VOAs Analytical Data

Location	Date	Sample ID	1,2-Dibromo-3-Chloropropane (ug/L)	1,2-Dibromo-ethane (ug/L)	1,2-Dichloro-benzene (ug/L)	1,2-Dichloro-ethane (ug/L)	1,2-Dichloro-propane (ug/L)	1,3-Dichloro-benzene (ug/L)	1,3-Dichloro-propane (ug/L)	1,4-Dichloro-benzene (ug/L)
LS-LEPS	1/11/2023	LEPS230111M	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-LEPS	2/1/2023	LEPS230201M	25 HU	1 HU	1 HU	1 HU	1 HU	1 HU	1 HU	1 HU
LS-LEPS	3/9/2023	LEPS230309M	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-MH46N	1/11/2023	L46N230111M	25 U	1 U	2.1	1 U	1 U	1 U	1 U	9.59
LS-MH46N	2/1/2023	L46N230201M	25 HU	1 HU	1.92 HJT	1 HU	1 HU	1 HU	1 HU	7.85 H
LS-MH46N	3/9/2023	L46N230309M	25 U	1 U	2.26	1 U	1 U	1 U	1 U	9.64
LS-PS2A	1/11/2023	LP2A230111D	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-PS2A	1/11/2023	LP2A230111M	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-PS2A	2/1/2023	LP2A230201M	25 HU	1 HU	1 HU	1 HU	1 HU	1 HU	1 HU	1 HU
LS-PS2A	3/9/2023	LP2A230309M	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-V1A	1/11/2023	LV1A230111M	25 U	1 U	1 U	1.38 JT	1 U	1 U	1 U	1 U
LS-V1A	2/1/2023	LV1A230201M	25 HU	1 HU	1 HU	1 HU	1 HU	1 HU	1 HU	1 HU
LS-V1A	3/9/2023	LV1A230309M	25 U	1 U	1 U	1.97 JT	1 U	1 U	1 U	1 U

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data
Data Collected from January 01, 2023 to March 31, 2023
Cedar Hills Regional Landfill ---Leachate VOAs Analytical Data

Location	Date	Sample ID	2,2-Dichloro- propane (ug/L)	2-Butanone (ug/L)	2-Hexanone (ug/L)	2-Methyl-1- Propanol (ug/L)	3-Chloro- propene (ug/L)	4-Methyl-2- Pentanone (ug/L)	Acetone (ug/L)	Acetonitrile (ug/L)	Acrolein (ug/L)
LS-LEPS	1/11/2023	LEPS230111M	1 U	960	5 U	50 DU	1 U	25 U	2750 D	50 U	25 U
LS-LEPS	2/1/2023	LEPS230201M	1 HU	2.5 HU	5 HU	87 DHJLT	1 HU	25 HU	125 H	50 HU	25 HU
LS-LEPS	3/9/2023	LEPS230309M	1 U	2.5 U	5 U	92.4 DJT	1 U	25 U	238	50 R	25 U
LS-MH46N	1/11/2023	L46N230111M	1 U	2.5 U	5 U	50 DU	1 U	25 U	25 U	50 U	25 U
LS-MH46N	2/1/2023	L46N230201M	1 HU	2.5 GHU	5 HU	115 DHJL	1 GHU	25 HU	25 GHU	50 HU	25 HU
LS-MH46N	3/9/2023	L46N230309M	1 U	2.5 U	5 U	113 DL	1 U	25 U	25 U	50 R	25 U
LS-PS2A	1/11/2023	LP2A230111D	1 U	2.5 U	5 U	50 DU	1 U	25 U	25 U	50 U	25 U
LS-PS2A	1/11/2023	LP2A230111M	1 U	2.5 U	5 U	50 DU	1 U	25 U	25 U	50 U	25 U
LS-PS2A	2/1/2023	LP2A230201M	1 HU	2.5 HU	5 HU	50 DHU	1 HU	25 HU	27.3 HJT	50 HU	25 HU
LS-PS2A	3/9/2023	LP2A230309M	1 U	2.5 U	5 U	50 DU	1 U	25 U	25 U	50 R	25 U
LS-V1A	1/11/2023	LV1A230111M	1 U	3100 D	5.28 JT	94.6 DJT	1 U	25 U	3620 D	50 U	25 U
LS-V1A	2/1/2023	LV1A230201M	1 HU	1640 DH	5 HU	106 DHL	1 HU	25 HU	2370 DH	50 HU	25 HU
LS-V1A	3/9/2023	LV1A230309M	1 U	1870 D	10 U	181 DL	1 U	25 U	2720 D	50 R	25 U

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data
Data Collected from January 01, 2023 to March 31, 2023
Cedar Hills Regional Landfill ---Leachate VOAs Analytical Data

Location	Date	Sample ID	Acrylonitrile (ug/L)	Benzene (ug/L)	Bromochloro- methane (ug/L)	Bromodichloro- methane (ug/L)	Bromoform (ug/L)	Bromo- methane (ug/L)	Carbon Disulfide (ug/L)	Carbon Tetrachloride (ug/L)	Chloro- benzene (ug/L)	Chlorodi- bromomethane (ug/L)
LS-LEPS	1/11/2023	LEPS230111M	0.35 DU	1 U	1 U	2.5 U	5 U	1 U	1 U	2.5 U	1 U	5 U
LS-LEPS	2/1/2023	LEPS230201M	0.35 DHU	1 HU	1 HU	2.5 HU	5 HU	1 HU	1 HU	2.5 HU	1 HU	5 HU
LS-LEPS	3/9/2023	LEPS230309M	0.35 DU	1 U	1 U	2.5 U	5 U	1 U	1 U	2.5 U	1 U	5 U
LS-MH46N	1/11/2023	L46N230111M	0.35 DU	3.35	1 U	2.5 U	5 U	1 U	1 U	2.5 U	1.75 JT	5 U
LS-MH46N	2/1/2023	L46N230201M	0.35 DGHU	3.01 H	1 HU	2.5 HU	5 HU	1 HU	1 GHU	2.5 HU	1.62 HJT	5 HU
LS-MH46N	3/9/2023	L46N230309M	0.35 DU	3.82	1 U	2.5 U	5 U	1 U	1 U	2.5 U	2.05	5 U
LS-PS2A	1/11/2023	LP2A230111D	0.35 DU	1 U	1 U	2.5 U	5 U	1 U	1 U	2.5 U	1 U	5 U
LS-PS2A	1/11/2023	LP2A230111M	0.35 DU	1 U	1 U	2.5 U	5 U	1 U	1 U	2.5 U	1 U	5 U
LS-PS2A	2/1/2023	LP2A230201M	0.35 DHU	1 HU	1 HU	2.5 HU	5 HU	1 HU	1.12 HJT	2.5 HU	1 HU	5 HU
LS-PS2A	3/9/2023	LP2A230309M	0.35 DU	1 U	1 U	2.5 U	5 U	1 U	1 U	2.5 U	1 U	5 U
LS-V1A	1/11/2023	LV1A230111M	0.35 DU	1 U	1 U	2.5 U	5 U	1 U	1 U	2.5 U	1 U	5 U
LS-V1A	2/1/2023	LV1A230201M	0.35 DHU	1 HU	1 HU	2.5 HU	5 HU	1 HU	1 HU	2.5 HU	1 HU	5 HU
LS-V1A	3/9/2023	LV1A230309M	0.35 DU	1 U	1 U	2.5 U	5 U	1 U	1 U	2.5 U	1 U	5 U

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data
Data Collected from January 01, 2023 to March 31, 2023
Cedar Hills Regional Landfill ---Leachate VOAs Analytical Data

Location	Date	Sample ID	Chloro-ethane (ug/L)	Chloroform (ug/L)	Chloro-methane (ug/L)	Chloro-prene (ug/L)	Cis-1,2-Di-chloroethene (ug/L)	Cis-1,3-Di-chloropropene (ug/L)	Dibromo-methane (ug/L)	Dichloro-difluoromethane (ug/L)	Ethyl-benzene (ug/L)	M & P Xylene (ug/L)
LS-LEPS	1/11/2023	LEPS230111M	1 U	1 U	2.5 U	1 U	1 U	2.5 U	1 U	1 U	1 U	1 U
LS-LEPS	2/1/2023	LEPS230201M	1 HU	1 HU	2.5 HU	1 HU	1 HU	2.5 HU	1 HU	1 HU	1 HU	1 HU
LS-LEPS	3/9/2023	LEPS230309M	1 U	1 U	2.5 U	1 U	1 U	2.5 U	1 U	1 U	1 U	1 U
LS-MH46N	1/11/2023	L46N230111M	1 U	1 U	2.5 U	1 U	3.18	2.5 U	1 U	1 U	43.9	47.1
LS-MH46N	2/1/2023	L46N230201M	1 HU	1 HU	2.5 HU	1 HU	3.28 GH	2.5 HU	1 HU	1 HU	36 H	41.5 H
LS-MH46N	3/9/2023	L46N230309M	1 U	1 U	2.5 U	1 U	2.73	2.5 U	1 U	1 U	44.6	49.3
LS-PS2A	1/11/2023	LP2A230111D	1 U	1 U	2.5 U	1 U	1 U	2.5 U	1 U	1 U	1 U	1 U
LS-PS2A	1/11/2023	LP2A230111M	1 U	1 U	2.5 U	1 U	1 U	2.5 U	1 U	1 U	1 U	1 U
LS-PS2A	2/1/2023	LP2A230201M	1 HU	1 HU	2.5 HU	1 HU	1 HU	2.5 HU	1 HU	1 HU	1 HU	1 HU
LS-PS2A	3/9/2023	LP2A230309M	1 U	1 U	2.5 U	1 U	1 U	2.5 U	1 U	1 U	1 U	1 U
LS-V1A	1/11/2023	LV1A230111M	1 U	1 U	2.5 U	1 U	1 U	2.5 U	1 U	1 U	2.49	5.56
LS-V1A	2/1/2023	LV1A230201M	1 HU	1 HU	2.5 HU	1 HU	1 HU	2.5 HU	1 HU	1 HU	1.24 HJT	2.71 H
LS-V1A	3/9/2023	LV1A230309M	1 U	1 U	2.5 U	1 U	1 U	2.5 U	1 U	1 U	1.57 JT	3.49

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data
Data Collected from January 01, 2023 to March 31, 2023
Cedar Hills Regional Landfill ---Leachate VOAs Analytical Data

Location	Date	Sample ID	Methyl Iodide (ug/L)	Methyl Methacrylate (ug/L)	Methyl- acrylonitrile (ug/L)	Methylene Chloride (ug/L)	O-Xylene (ug/L)	Propio- nitrile (ug/L)	Styrene (ug/L)	Tetrachloro- ethene (ug/L)	Toluene (ug/L)	Trans-1,2- Dichloroethene (ug/L)
LS-LEPS	1/11/2023	LEPS230111M	1 U	2.5 U	1 U	25 U	1 U	5 U	1 U	1 U	1.2 JT	1 U
LS-LEPS	2/1/2023	LEPS230201M	1 HU	2.5 HU	1 HU	25 HU	1 HU	5 HU	1 HU	1 HU	1 HU	1 HU
LS-LEPS	3/9/2023	LEPS230309M	1 U	2.5 U	1 U	25 U	1 U	5 U	1 U	1 U	1.34 JT	1 U
LS-MH46N	1/11/2023	L46N230111M	1 U	2.5 U	1 U	25 U	3	5 U	1.15 JT	1 U	3.96	1 U
LS-MH46N	2/1/2023	L46N230201M	1 HU	2.5 HU	1 HU	25 HU	2.37 H	5 GHU	1.04 HJT	1 HU	3.2 H	1 GHU
LS-MH46N	3/9/2023	L46N230309M	1 U	2.5 U	1 U	25 U	2.21	5 U	1.1 JT	1 U	3.7	1 U
LS-PS2A	1/11/2023	LP2A230111D	1 U	2.5 U	1 U	25 U	1 U	5 U	1 U	1 U	1 U	1 U
LS-PS2A	1/11/2023	LP2A230111M	1 U	2.5 U	1 U	25 U	1 U	5 U	1 U	1 U	1 U	1 U
LS-PS2A	2/1/2023	LP2A230201M	1 HU	2.5 HU	1 HU	25 HU	1 HU	5 HU	1 HU	1 HU	1 HU	1 HU
LS-PS2A	3/9/2023	LP2A230309M	1 U	2.5 U	1 U	25 U	1 U	5 U	1 U	1 U	1 U	1 U
LS-V1A	1/11/2023	LV1A230111M	1 U	2.5 U	1 U	25 U	2.93	5 U	1 U	1 U	13.3	1 U
LS-V1A	2/1/2023	LV1A230201M	1 HU	2.5 HU	1 HU	25 HU	1.34 HJT	5 HU	1 HU	1 HU	5.64 H	1 HU
LS-V1A	3/9/2023	LV1A230309M	1 U	2.5 U	1 U	25 U	1.73 JT	5 U	1 U	1 U	7.45	1 U

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data
Data Collected from January 01, 2023 to March 31, 2023
Cedar Hills Regional Landfill ---Leachate VOAs Analytical Data

Location	Date	Sample ID	Trans-1,3-Di- chloropropene (ug/L)	Trans-1,4-Di- chloro-2-Butene (ug/L)	Trichloro- ethene (ug/L)	Trichloro- fluoromethane (ug/L)	Vinyl Acetate (ug/L)	Vinyl Chloride (ug/L)
LS-LEPS	1/11/2023	LEPS230111M	5 U	5 U	1 U	1 U	1 U	0.1 DU
LS-LEPS	2/1/2023	LEPS230201M	5 HU	5 HU	1 HU	1 HU	1 HU	0.209 DH
LS-LEPS	3/9/2023	LEPS230309M	5 U	10 U	1 U	1 U	1 U	0.1 DU
LS-MH46N	1/11/2023	L46N230111M	5 U	5 U	1 U	1 U	1 U	5.18 D
LS-MH46N	2/1/2023	L46N230201M	5 HU	5 HU	1 HU	1 HU	1 HU	4.12 DH
LS-MH46N	3/9/2023	L46N230309M	5 U	10 U	1 U	1 U	1 U	4.99 D
LS-PS2A	1/11/2023	LP2A230111D	5 U	5 U	1 U	1 U	1 U	0.1 DU
LS-PS2A	1/11/2023	LP2A230111M	5 U	5 U	1 U	1 U	1 U	0.1 DU
LS-PS2A	2/1/2023	LP2A230201M	5 HU	5 HU	1 HU	1 HU	1 HU	0.1 DHU
LS-PS2A	3/9/2023	LP2A230309M	5 U	10 U	1 U	1 U	1 U	0.1 DU
LS-V1A	1/11/2023	LV1A230111M	5 U	5 U	1 U	1 U	1 U	0.1 DU
LS-V1A	2/1/2023	LV1A230201M	5 HU	5 HU	1 HU	1 HU	1 HU	0.1 DHU
LS-V1A	3/9/2023	LV1A230309M	5 U	10 U	1 U	1 U	1 U	0.1 DU

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data
 Data Collected from January 01, 2023 to March 31, 2023
 Cedar Hills Landfill ---Leachate PCB Analytical Data

Location	Date	Sample ID	2,4,5-T	2,4,5-Tp	2,4-D	4,4'ddd	4,4'dde	4,4'ddt	Aldrin	Alpha Bhc	Alpha	Aroclor	Aroclor	Aroclor
			93-76-5	93-72-1	94-75-7	72-54-8	72-55-9	50-29-3	309-00-2	319-84-6	Chlordane	1016	1221	1232
			ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
LS-LEPS	44937.04167	LEPS230111M	0.5 U	0.8 U	1 U	0.1 HU	0.1 HU	0.1 HU	0.1 HU	0.1 HU	0.1 HU	0.025 U	0.025 U	0.025 U
LS-LEPS	2/1/2023	LEPS230201M	0.5 U	0.5 U	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.025 U	0.025 U	0.025 U
LS-LEPS	3/9/2023	LEPS230309M	0.5 U	1.5 U	1 U	0.1 GU	0.1 GU	0.1 GU	0.1 GU	0.1 U	0.1 GU	0.1 U	0.1 U	0.1 U
LS-MH46N	1/11/2023	L46N230111M	0.5 U	0.581	5.47	0.04 HU	0.04 HU	0.04 HU	0.04 HU	0.04 HU	0.04 HU	0.025 U	0.0542	0.025 U
LS-MH46N	2/1/2023	L46N230201M	0.5 U	0.5 U	2.9	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.025 U	0.0696 J	0.025 U
LS-MH46N	3/9/2023	L46N230309M	0.5 U	0.503	3.25	0.1 GU	0.1 GU	0.1 GU	0.1 GU	0.1 U	0.1 GU	0.025 U	0.0749 J	0.025 U
LS-PS2A	1/11/2023	LP2A230111D	0.5 U	0.5 U	1 U	0.01 HU	0.01 HU	0.01 HU	0.01 HU	0.01 HU	0.01 HU	0.025 U	0.025 U	0.025 U
LS-PS2A	1/11/2023	LP2A230111M	0.5 U	0.5 U	1 U	0.01 HU	0.01 HU	0.01 HU	0.01 HU	0.01 HU	0.01 HU	0.025 U	0.025 U	0.025 U
LS-PS2A	2/1/2023	LP2A230201M	0.5 U	0.5 U	1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.025 U	0.025 U	0.025 U
LS-PS2A	44994.42361	LP2A230309M	0.5 U	0.5 U	1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.025 U	0.025 U	0.025 U
LS-V1A	44937.29167	LV1A230111M	0.5 U	0.8 U	1.38	0.1 HU	0.1 HU	0.1 HU	0.1 HU	0.1 HU	0.1 HU	0.025 U	0.1 U	0.025 U
LS-V1A	44958.30208	LV1A230201M	0.5 U	0.5 U	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.025 U	0.025 U	0.025 U
LS-V1A	44994.39583	LV1A230309M	0.5 U	2.4 U	1.79	0.1 GU	0.1 GU	0.1 GU	0.1 GU	0.1 U	0.1 GU	0.025 U	0.025 U	0.025 U

Environmental Monitoring Data
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 Cedar Hills Landfill ---Leachate PCB Analytical Data

Location	Date	Sample ID	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Beta Bhc	Delta Bhc	Dieldrin	Dinoseb	Endosulfan I	Endosulfan II	Endosulfan Sulfate
			53469-21-9 ug/l	12672-29-6 ug/l	11097-69-1 ug/l	11096-82-5 ug/l	319-85-7 ug/l	319-86-8 ug/l	60-57-1 ug/l	88-85-7 ug/l	959-98-8 ug/l	33213-65-9 ug/l	1031-07-8 ug/l
LS-LEPS	44937.04167	LEPS230111M	0.0399	0.025 U	0.025 U	0.025 U	0.1 HU	0.1 HU	0.1 HU	0.5 U	0.1 HU	0.1 HU	0.1 HU
LS-LEPS	2/1/2023	LEPS230201M	0.0406	0.025 U	0.025 U	0.025 U	0.1 U	0.1 U	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U
LS-LEPS	3/9/2023	LEPS230309M	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 GU	0.5 U	0.1 U	0.1 U	0.1 U
LS-MH46N	1/11/2023	L46N230111M	0.0864	0.025 U	0.025 U	0.025 U	0.04 HU	0.04 HU	0.04 HU	1 U	0.04 HU	0.04 HU	0.04 HU
LS-MH46N	2/1/2023	L46N230201M	0.12	0.025 U	0.025 U	0.025 U	0.1 U	0.1 U	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U
LS-MH46N	3/9/2023	L46N230309M	0.111	0.025 U	0.025 U	0.025 U	0.1 U	0.1 U	0.1 GU	0.5 U	0.1 U	0.1 U	0.1 U
LS-PS2A	1/11/2023	LP2A230111D	0.025 U	0.025 U	0.025 U	0.025 U	0.01 HU	0.01 HU	0.01 HU	0.5 U	0.01 HU	0.01 HU	0.01 HU
LS-PS2A	1/11/2023	LP2A230111M	0.025 U	0.025 U	0.025 U	0.025 U	0.01 HU	0.01 HU	0.01 HU	0.5 U	0.01 HU	0.01 HU	0.01 HU
LS-PS2A	2/1/2023	LP2A230201M	0.025 U	0.025 U	0.025 U	0.025 U	0.01 U	0.01 U	0.01 U	0.5 U	0.01 U	0.01 U	0.01 U
LS-PS2A	44994.42361	LP2A230309M	0.025 U	0.025 U	0.025 U	0.025 U	0.01 U	0.01 U	0.01 U	0.5 U	0.01 U	0.01 U	0.01 U
LS-V1A	44937.29167	LV1A230111M	0.093	0.025 U	0.025 U	0.025 U	0.1 HU	0.1 HU	0.1 HU	0.5 U	0.1 HU	0.1 HU	0.1 HU
LS-V1A	44958.30208	LV1A230201M	0.06	0.025 U	0.025 U	0.025 U	0.1 U	0.1 U	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U
LS-V1A	44994.39583	LV1A230309M	0.0636	0.025 U	0.025 U	0.025 U	0.1 U	0.1 U	0.1 GU	0.5 U	0.1 U	0.1 U	0.1 U

Environmental Monitoring Data
Data Collected from January 01, 2023 to March 31, 2023
Cedar Hills Landfill ---Leachate PCB Analytical Data

Location	Date	Sample ID	Endrin 72-20-8 ug/l	Endrin Aldehyde 7421-93-4 ug/l	Heptachlor 76-44-8 ug/l	Heptachlor Epoxide 1024-57-3 ug/l	Isodrin 465-73-6 ug/l	Lindane (Gamma) 58-89-9 ug/l	Metho- xychlor 72-43-5 ug/l	Total Aroclors T_AROCLOR ug/l	Toxaphene 8001-35-2 ug/l	Trans- Chlordane 5103-74-2 ug/l
LS-LEPS	44937.04167	LEPS230111M	0.1 HU	0.1 GHU	0.1 HU	0.1 HU	0.1 HU	0.1 HU	0.5 HU	0.0399	10 HU	0.1 GHU
LS-LEPS	2/1/2023	LEPS230201M	0.1 U	0.1 GU	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	0.0406	10 U	0.1 U
LS-LEPS	3/9/2023	LEPS230309M	0.1 GU	0.1 GU	0.1 GU	0.1 GU	0.1 GU	0.1 U	0.125 DGU	0.1 U	10 U	0.1 GU
LS-MH46N	1/11/2023	L46N230111M	0.04 HU	0.04 GHU	0.04 HU	0.04 HU	0.04 HU	0.04 HU	0.2 HU	0.1406	4 HU	0.04 GHU
LS-MH46N	2/1/2023	L46N230201M	0.1 U	0.1 GU	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	0.1896	10 U	0.1 U
LS-MH46N	3/9/2023	L46N230309M	0.1 GU	0.1 GU	0.1 GU	0.1 GU	0.1 GU	0.1 U	0.125 DGU	0.1859	10 U	0.1 GU
LS-PS2A	1/11/2023	LP2A230111D	0.01 HU	0.01 HU	0.01 HU	0.01 HU	0.01 HU	0.01 HU	0.05 HU	0.025 U	1 HU	0.01 HU
LS-PS2A	1/11/2023	LP2A230111M	0.01 HU	0.01 HU	0.01 HU	0.01 HU	0.01 HU	0.01 HU	0.05 HU	0.025 U	1 HU	0.01 HU
LS-PS2A	2/1/2023	LP2A230201M	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U	0.025 U	1 U	0.01 U
LS-PS2A	44994.42361	LP2A230309M	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U	0.025 U	1 U	0.01 U
LS-V1A	44937.29167	LV1A230111M	0.1 HU	0.1 GHU	0.1 HU	0.1 HU	0.1 HU	0.1 HU	0.5 HU	0.093	10 HU	0.1 GHU
LS-V1A	44958.30208	LV1A230201M	0.1 U	0.1 GU	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	0.06	10 U	0.1 U
LS-V1A	44994.39583	LV1A230309M	0.1 GU	0.1 GU	0.1 GU	0.1 GU	0.1 GU	0.1 U	0.125 DGU	0.0636	10 U	0.1 GU

Landfill Gas Probe Data

CEDAR HILLS REGIONAL LANDFILL

Landfill Gas Compliance Probes

January 2023 Monitoring Data

Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
ATC-1D	1/12/2023 11:12	0.0	0.4	9.9	0.0	-0.18	
ATC-1S	1/12/2023 11:10	0.0	1.0	20.6	0.0	0	
ATC-6D	1/12/2023 12:24	0.0	0.8	3.2	0.0	0.24	
ATC-6S	1/12/2023 12:23	0.0	0.2	19.9	0.0	-3.92	
ATC-8D	1/12/2023 12:11	0.0	0.5	18.9	0.0	4.23	
ATC-8S	1/12/2023 12:10	0.0	0.3	17.8	0.0	-1.69	
GP-25	1/12/2023 15:17	0.0	2.3	12.9	0.0	0.03	
GP-26	1/12/2023 15:20	0.0	0.8	17.3	0.0	0.05	
GP-27	1/12/2023 15:23	0.0	7.1	9.5	0.0	0.02	
GP-39	1/12/2023 9:57	0.0	0.5	18.4	0.0	0.04	
GP-40	1/12/2023 10:01	0.0	0.1	20.8	0.0	0.04	
GP-11A	1/12/2023 10:47	0.0	0.7	19.4	0.0	-0.02	
GP-11B	1/12/2023 10:48	0.0	0.1	20.9	0.0	-0.59	
GP-11C	1/12/2023 10:50	0.0	0.1	20.9	0.0	-0.57	
GP-11D	1/12/2023 10:51	0.0	0.3	20.3	0.0	-0.01	
GP-12A	1/12/2023 11:24	0.0	0.1	21.0	0.0	0.04	
GP-12B	1/12/2023 11:25	0.0	0.1	21.0	0.0	0	
GP-12C	1/12/2023 11:26	0.0	0.2	20.1	0.0	0.07	
GP-12D	1/12/2023 11:28	0.0	0.1	21.0	0.0	-0.53	
GP-13A	1/12/2023 11:17	0.0	0.1	21.0	0.0	-0.12	
GP-13B	1/12/2023 11:18	0.0	0.1	21.0	0.0	0.02	
GP-13C	1/12/2023 11:19	0.0	0.1	21.0	0.0	0.03	
GP-13D	1/12/2023 11:20	0.0	0.1	21.0	0.0	-1.74	
GP-14A	1/12/2023 11:04	0.0	0.1	21.0	0.0	-0.61	
GP-14B	1/12/2023 11:05	0.0	0.1	21.0	0.0	-0.71	
GP-15A	1/12/2023 11:55	0.0	2.8	11.3	0.0	0.08	
GP-15C	1/12/2023 11:56	0.0	0.8	16.7	0.0	-2.3	
GP-15D	1/12/2023 11:57	0.0	0.2	20.1	0.0	-1.58	
GP-16A	1/12/2023 12:14	0.0	0.2	20.1	0.0	0.07	
GP-16B	1/12/2023 12:15	0.0	0.3	17.8	0.0	-0.73	
GP-16C	1/12/2023 12:17	0.0	0.2	19.3	0.0	-1.73	
GP-17A	1/12/2023 14:31	0.0	0.2	18.7	0.0	1.77	
GP-17B	1/12/2023 14:33	0.0	0.8	13.7	0.0	0.09	
GP-17C	1/12/2023 14:34	0.0	0.1	18.8	0.0	-1.01	
GP-18A	1/12/2023 14:38	0.0	0.3	18.9	0.0	-0.03	
GP-18B	1/12/2023 14:39	0.0	0.4	13.2	0.0	0.17	
GP-18C	1/12/2023 14:40	0.0	0.2	18.9	0.0	-1.3	
GP-19A	1/12/2023 14:43	0.0	0.1	19.3	0.0	-0.46	
GP-19B	1/12/2023 14:44	0.0	0.7	14.7	0.0	-0.2	
GP-19C	1/12/2023 14:45	0.0	0.1	19.3	0.0	0.07	
GP-20A	1/12/2023 14:48	0.0	0.1	19.5	0.0	0.05	
GP-20B	1/12/2023 14:49	0.0	0.3	11.0	0.0	0.1	
GP-20C	1/12/2023 14:50	0.0	0.3	11.2	0.0	0.59	
GP-21A	1/12/2023 14:53	0.0	0.2	19.3	0.0	-1.01	
GP-21B	1/12/2023 14:54	0.0	0.2	9.8	0.0	0.03	
GP-21C	1/12/2023 14:55	0.0	1.1	14.6	0.0	0.36	
GP-22A	1/12/2023 14:59	0.0	0.4	19.3	0.0	0.04	
GP-22C	1/12/2023 15:00	0.0	1.0	4.5	0.0	0.07	
GP-23A	1/12/2023 15:05	0.0	0.1	19.6	0.0	-0.32	
GP-23B	1/12/2023 15:06	0.0	0.1	19.7	0.0	-1.96	
GP-23C	1/12/2023 15:08	0.0	0.1	19.7	0.0	0.09	

CEDAR HILLS REGIONAL LANDFILL

Landfill Gas Compliance Probes

January 2023 Monitoring Data

Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
GP-24A	1/12/2023 15:13	0.0	4.5	8.4	0.0	0.05	
GP-24B	1/12/2023 15:14	0.0	2.7	13.1	0.0	-0.06	
GP-29A	1/12/2023 15:27	0.0	3.4	14.6	0.0	0	
GP-29B	1/12/2023 15:28	0.0	0.5	19.3	0.0	0.09	
GP-30A	1/12/2023 8:49	0.0	1.2	19.6	0.0	0.04	
GP-30B	1/12/2023 8:52	0.0	0.5	20.0	0.0	-1.01	
GP-31A	1/12/2023 8:55	0.0	5.4	14.8	0.0	0.13	
GP-31B	1/12/2023 8:56	0.0	0.3	19.6	0.0	-0.56	
GP-31C	1/12/2023 8:57	0.0	1.5	17.3	0.0	-0.05	
GP-32A	1/12/2023 9:00	0.0	0.2	20.5	0.0	1.14	
GP-32B	1/12/2023 9:01	0.0	0.7	19.8	0.0	-0.11	
GP-32C	1/12/2023 9:03	0.0	0.8	19.7	0.0	-0.03	
GP-33A	1/12/2023 9:06	0.0	0.2	20.7	0.0	0.02	
GP-33B	1/12/2023 9:07	0.0	0.1	20.7	0.0	-0.64	
GP-33C	1/12/2023 9:08	0.0	0.1	20.8	0.0	-1.37	
GP-34A	1/12/2023 9:15	0.0	0.2	21.0	0.0	3.75	
GP-34B	1/12/2023 9:17	0.0	0.1	21.0	0.0	-0.23	
GP-34C	1/12/2023 9:18	0.0	0.1	21.0	0.0	-1.57	
GP-35A	1/12/2023 9:25	0.0	0.5	20.9	0.0	-1.2	
GP-35B	1/12/2023 9:26	0.0	0.3	13.0	0.0	0.79	
GP-35C	1/12/2023 9:27	0.0	0.1	21.0	0.0	0	
GP-36A	1/12/2023 9:31	0.0	0.4	5.7	0.0	0.02	
GP-36B	1/12/2023 9:33	0.0	0.3	16.2	0.0	-0.16	
GP-36C	1/12/2023 9:34	0.0	0.3	20.7	0.0	-1.79	
GP-37A	1/12/2023 9:48	0.0	0.2	20.1	0.0	0.4	
GP-37B	1/12/2023 9:49	0.0	0.2	20.9	0.0	-57.54	
GP-37C	1/12/2023 9:51	0.0	0.2	20.8	0.0	-1.97	
GP-41A	1/12/2023 10:05	0.0	0.1	21.0	0.0	0.02	
GP-41B	1/12/2023 10:06	0.0	0.2	20.8	0.0	0.05	
GP-41C	1/12/2023 10:07	0.0	0.1	21.0	0.0	-0.19	
GP-42A	1/12/2023 10:12	0.0	0.1	21.0	0.0	0.7	
GP-42B	1/12/2023 10:13	0.0	0.3	20.4	0.0	-0.84	
GP-43A	1/12/2023 10:18	0.0	0.2	20.4	0.0	-0.27	
GP-43B	1/12/2023 10:19	0.0	0.3	21.0	0.0	0.02	
GP-43C	1/12/2023 10:19	0.0	0.2	18.3	0.0	0.06	
GP-44A	1/12/2023 10:24	0.0	0.1	21	0.0	0	
GP-44B	1/12/2023 10:25	0.0	0.2	19.3	0.0	-0.61	
GP-44C	1/12/2023 10:26	0.0	0.1	21	0.0	0.06	
GP-45D	1/12/2023 10:56	0.0	0.1	20.8	0.0	0.31	
GP-45I	1/12/2023 10:54	0.0	0.1	20.8	0.0	-0.05	
GP-45S	1/12/2023 10:53	0.0	0.1	20.8	0.0	-0.74	

CEDAR HILLS REGIONAL LANDFILL

Landfill Gas Compliance Probes

February 2023 Monitoring Data

Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
ATC-1D	2/9/2023 10:38	0.0	0.1	20.7	0.0	-0.11	
ATC-1S	2/9/2023 10:37	0.0	0.0	0.0	0.0	0	NR H2O
ATC-6D	2/9/2023 11:42	0.0	0.7	4.3	0.0	-0.09	
ATC-6S	2/9/2023 11:41	0.0	0.1	20.6	0.0	-1.44	
ATC-8D	2/9/2023 11:33	0.0	1.3	17.7	0.0	0.41	
ATC-8S	2/9/2023 11:32	0.0	0.2	19.8	0.0	-0.07	
GP-25	2/9/2023 14:43	0.0	2.0	14.8	0.0	-0.03	
GP-26	2/9/2023 14:46	0.0	0.7	17.2	0.0	1.18	
GP-27	2/9/2023 14:49	0.0	7.0	9.9	0.0	-0.06	
GP-39	2/9/2023 9:57	0.0	0.6	18.3	0.0	-0.06	
GP-40	2/9/2023 10:00	0.0	0.0	20.8	0.0	-0.06	
GP-11A	2/9/2023 10:25	0.0	0.1	20.7	0.0	-0.05	
GP-11B	2/9/2023 10:26	0.0	0.0	20.8	0.0	0.8	
GP-11C	2/9/2023 10:27	0.0	0.0	20.8	0.0	0.93	
GP-11D	2/9/2023 10:27	0.0	0.1	20.8	0.0	0.07	
GP-12A	2/9/2023 10:44	0.0	0.0	20.8	0.0	-0.06	
GP-12B	2/9/2023 10:45	0.0	0.0	20.8	0.0	-0.06	
GP-12C	2/9/2023 10:46	0.0	0.1	20.0	0.0	-0.06	
GP-12D	2/9/2023 10:47	0.0	0.3	14.7	0.0	0.03	
GP-13A	2/9/2023 10:50	0.0	0.1	20.3	0.0	-0.07	
GP-13B	2/9/2023 10:51	0.0	0.1	20.8	0.0	-0.04	
GP-13C	2/9/2023 10:52	0.0	0.1	20.9	0.0	0.1	
GP-13D	2/9/2023 10:53	0.0	0.1	20.9	0.0	0.47	
GP-14A	2/9/2023 10:57	0.0	0.1	20.9	0.0	0.21	
GP-14B	2/9/2023 10:58	0.0	0.0	20.9	0.0	-0.07	
GP-15A	2/9/2023 11:20	0.0	0.1	20.1	0.0	-0.05	
GP-15C	2/9/2023 11:22	0.0	0.7	17.7	0.0	-0.06	
GP-15D	2/9/2023 11:23	0.0	0.1	20.0	0.0	-1.02	
GP-16A	2/9/2023 11:35	0.0	0.1	20.1	0.0	-0.06	
GP-16B	2/9/2023 11:36	0.0	0.1	20.5	0.0	0.58	
GP-16C	2/9/2023 11:37	0.0	0.1	20.6	0.0	0.6	
GP-17A	2/9/2023 13:34	0.0	0.0	0.0	0.0	0	NR H2O
GP-17B	2/9/2023 13:36	0.0	0.7	15.6	0.0	0.06	
GP-17C	2/9/2023 13:37	0.0	0.1	19.4	0.0	1.16	
GP-18A	2/9/2023 13:39	0.0	0.0	0.0	0.0	0	NR H2O
GP-18B	2/9/2023 13:41	0.0	0.3	13.8	0.0	-0.04	
GP-18C	2/9/2023 13:42	0.0	0.1	18.6	0.0	1.21	
GP-19A	2/9/2023 14:13	0.0	0.1	19.3	0.0	-0.04	
GP-19B	2/9/2023 14:14	0.0	0.6	15.5	0.0	-0.06	
GP-19C	2/9/2023 14:15	0.0	0.0	19.3	0.0	0.12	
GP-20A	2/9/2023 14:18	0.0	0.0	19.7	0.0	-0.04	
GP-20B	2/9/2023 14:19	0.0	0.2	18.1	0.0	-0.03	
GP-20C	2/9/2023 14:21	0.0	0.1	7.8	0.0	0.1	
GP-21A	2/9/2023 14:23	0.0	0.1	19.0	0.0	-0.07	
GP-21B	2/9/2023 14:25	0.0	0.1	10.3	0.0	0.08	
GP-21C	2/9/2023 14:26	0.0	0.0	0.0	0.0	0	NR H2O
GP-22A	2/9/2023 14:28	0.0	0.2	19.3	0.0	-6	
GP-22C	2/9/2023 14:30	0.0	0.8	5.2	0.0	0.52	
GP-23A	2/9/2023 14:34	0.0	0.0	19.5	0.0	0.22	
GP-23B	2/9/2023 14:35	0.0	0.1	20.0	0.0	-0.52	
GP-23C	2/9/2023 14:36	0.0	0.0	20.1	0.0	-0.07	

CEDAR HILLS REGIONAL LANDFILL

Landfill Gas Compliance Probes

February 2023 Monitoring Data

Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
GP-24A	2/9/2023 14:40	0.0	4.3	7.6	0.0	-0.07	
GP-24B	2/9/2023 14:41	0.0	2.5	13.4	0.0	0.09	
GP-29A	2/9/2023 14:53	0.0	6.1	10.4	0.0	-0.04	
GP-29B	2/9/2023 14:55	0.0	0.6	19.9	0.0	1.05	
GP-30A	2/9/2023 9:20	0.0	1.6	19.0	0.0	-0.05	
GP-30B	2/9/2023 9:22	0.0	1.1	19.3	0.0	0.66	
GP-31A	2/9/2023 9:25	0.0	0.0	0.0	0.0	0	NR H2O
GP-31B	2/9/2023 9:26	0.0	0.2	17.5	0.0	1.71	
GP-31C	2/9/2023 9:27	0.0	0.1	20.3	0.0	-0.06	
GP-32A	2/9/2023 9:29	0.0	1.2	20.0	0.0	-0.08	
GP-32B	2/9/2023 9:30	0.0	0.6	20.1	0.0	-0.05	
GP-32C	2/9/2023 9:31	0.0	0.6	20.2	0.0	-0.1	
GP-33A	2/9/2023 9:33	0.0	0.1	20.6	0.0	-0.03	
GP-33B	2/9/2023 9:34	0.0	0.0	20.8	0.0	-0.13	
GP-33C	2/9/2023 9:35	0.0	0.1	20.8	0.0	0.62	
GP-34A	2/9/2023 9:37	0.0	0.0	0.0	0.0	0	NR H2O
GP-34B	2/9/2023 9:39	0.0	0.1	20.9	0.0	0.01	
GP-34C	2/9/2023 9:40	0.0	0.1	21.0	0.0	0.28	
GP-35A	2/9/2023 9:42	0.0	0.5	20.8	0.0	0.41	
GP-35B	2/9/2023 9:43	0.0	0.0	20.8	0.0	-0.07	
GP-35C	2/9/2023 9:44	0.0	0.1	21.0	0.0	-0.14	
GP-36A	2/9/2023 9:47	0.0	0.3	3.6	0.0	2.96	
GP-36B	2/9/2023 9:48	0.0	0.0	0.0	0.0	0	NR H2O
GP-36C	2/9/2023 9:49	0.0	0.2	20.1	0.0	0.11	
GP-37A	2/9/2023 9:51	0.0	0.0	0.0	0.0	0	NR H2O
GP-37B	2/9/2023 9:52	0.0	0.0	0.0	0.0	0	NR Pressure
GP-37C	2/9/2023 9:53	0.0	0.5	3.3	0.0	0.63	
GP-41A	2/9/2023 10:02	0.0	0.1	21.0	0.0	-0.07	
GP-41B	2/9/2023 10:04	0.0	0.1	20.6	0.0	-0.06	
GP-41C	2/9/2023 10:05	0.0	0.0	20.7	0.0	-0.11	
GP-42A	2/9/2023 10:09	0.0	0.0	0.0	0.0	0.0	NR H2O
GP-42B	2/9/2023 10:11	0.0	0.3	20.0	0.0	0.78	
GP-43A	2/9/2023 10:13	0.0	0.0	0.0	0.0	0	NR Pressure
GP-43B	2/9/2023 10:14	0.0	0.1	20.5	0.0	-0.07	
GP-43C	2/9/2023 10:15	0.0	0.1	20.1	0.0	-0.06	
GP-44A	2/9/2023 10:18	0.0	0	20.8	0.0	-0.08	
GP-44B	2/9/2023 10:19	0.0	0.4	17.7	0.0	2.38	
GP-44C	2/9/2023 10:20	0.0	0.1	20.2	0.0	-0.02	
GP-45D	2/9/2023 10:31	0.0	0.1	20.7	0.0	0.8	
GP-45I	2/9/2023 10:30	0.0	0.1	20.3	0.0	0.04	
GP-45S	2/9/2023 10:28	0.0	0.1	20.8	0.0	-0.11	

CEDAR HILLS REGIONAL LANDFILL

Landfill Gas Compliance Probes

March 2023 Monitoring Data

Location ID	Date/Time	CH4	CO2	O2	Lower Explosive Limit	Static Pressure	Comments
		(% Vol)	(% Vol)	(% Vol)	(% LEL)	(in INWC)	
ATC-1D	3/15/2023 13:23	0.0	0.1	19.5	0.0	-0.26	
ATC-1S	3/15/2023 13:22	0.2	0.2	19.4	4.0	-14.07	
ATC-6D	3/15/2023 14:33	0.0	0.8	3.6	0.0	-0.12	
ATC-6S	3/15/2023 14:32	0.0	0.2	20.4	0.0	-1.9	
ATC-8D	3/15/2023 14:26	0.0	0.4	19.1	0.0	-0.1	
ATC-8S	3/15/2023 14:25	0.0	0.3	19.0	0.0	-2.83	
GP-25	3/15/2023 11:05	0.0	2.2	14.4	0.0	-0.35	
GP-26	3/15/2023 11:07	0.0	0.9	16.4	0.0	-0.47	
GP-27	3/15/2023 11:10	0.0	7.4	9.6	0.0	-0.22	
GP-39	3/15/2023 9:03	0.0	0.7	17.6	0.0	-0.24	
GP-40	3/15/2023 9:06	0.0	0.1	18.7	0.0	-0.2	
GP-11A	3/15/2023 11:28	0.0	0.1	20.3	0.0	-0.14	
GP-11B	3/15/2023 11:29	0.0	0.1	20.3	0.0	-2.22	
GP-11C	3/15/2023 11:30	0.0	0.1	20.4	0.0	-2.17	
GP-11D	3/15/2023 11:31	0.0	0.1	20.3	0.0	-0.18	
GP-12A	3/15/2023 13:34	0.0	0.1	20.3	0.0	-0.44	
GP-12B	3/15/2023 13:34	0.0	0.1	20.3	0.0	-1.41	
GP-12C	3/15/2023 13:35	0.0	0.2	18.1	0.0	-6.48	
GP-12D	3/15/2023 13:36	0.0	0.5	10.1	0.0	-5.24	
GP-13A	3/15/2023 13:27	0.0	0.1	19.9	0.0	0.01	
GP-13B	3/15/2023 13:28	0.0	0.1	19.9	0.0	-0.18	
GP-13C	3/15/2023 13:29	0.0	0.1	20.0	0.0	-0.24	
GP-13D	3/15/2023 13:30	0.0	0.1	20.1	0.0	-5.25	
GP-14A	3/15/2023 13:43	0.0	0.1	20.3	0.0	-2.16	
GP-14B	3/15/2023 13:44	0.0	0.1	20.5	0.0	-2.43	
GP-15A	3/15/2023 14:04	0.0	0.2	20.0	0.0	-0.16	
GP-15C	3/15/2023 14:05	0.0	0.6	17.5	0.0	-0.19	
GP-15D	3/15/2023 14:06	0.0	0.2	20.1	0.0	-0.91	
GP-16A	3/15/2023 14:28	0.0	0.1	20.3	0.0	-0.16	
GP-16B	3/15/2023 14:29	0.0	0.1	20.3	0.0	-2.41	
GP-16C	3/15/2023 14:30	0.0	0.1	20.4	0.0	-5.65	
GP-17A	3/15/2023 9:51	0.0	0.2	20.7	0.0	-3.55	
GP-17B	3/15/2023 9:52	0.0	0.8	16.7	0.0	-0.16	
GP-17C	3/15/2023 9:53	0.0	0.1	20.6	0.0	-4.54	
GP-18A	3/15/2023 10:03	0.0	0.2	20.5	0.0	-0.18	
GP-18B	3/15/2023 10:05	0.0	0.4	14.4	0.0	-0.18	
GP-18C	3/15/2023 10:07	0.0	0.1	20.3	0.0	-5.08	
GP-19A	3/15/2023 10:18	0.0	0.1	20.3	0.0	-0.18	
GP-19B	3/15/2023 10:19	0.0	0.7	15.5	0.0	-0.23	
GP-19C	3/15/2023 10:20	0.0	0.1	20.2	0.0	-0.48	
GP-20A	3/15/2023 10:23	0.0	0.1	20.2	0.0	-0.22	
GP-20B	3/15/2023 10:24	0.0	0.3	13.2	0.0	-0.2	
GP-20C	3/15/2023 10:24	0.0	0.3	14.8	0.0	-0.09	
GP-21A	3/15/2023 10:27	0.0	0.3	19.9	0.0	-0.25	
GP-21B	3/15/2023 10:28	0.0	0.2	11.2	0.0	-0.22	
GP-21C	3/15/2023 10:29	0.0	1.3	13.1	0.0	-7.09	
GP-22A	3/15/2023 10:44	0.0	0.3	18.5	0.0	-0.29	
GP-22C	3/15/2023 10:46	0.0	0.8	5.2	0.0	-4.49	
GP-23A	3/15/2023 10:53	0.0	0.1	19.7	0.0	-1.06	
GP-23B	3/15/2023 10:54	0.0	0.1	19.9	0.0	-2.54	
GP-23C	3/15/2023 10:55	0.0	0.1	20.1	0.0	-0.11	
GP-24A	3/15/2023 11:01	0.0	4.1	8.0	0.0	-0.21	

CEDAR HILLS REGIONAL LANDFILL

Landfill Gas Compliance Probes

March 2023 Monitoring Data

Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
GP-24B	3/15/2023 11:02	0.0	2.9	13.2	0.0	-0.17	
GP-29A	3/15/2023 11:13	0.0	2.6	15.6	0.0	-0.21	
GP-29B	3/15/2023 11:14	0.0	0.7	19.9	0.0	-0.22	
GP-30A	3/15/2023 7:46	0.0	1.8	17.5	0.0	-0.24	
GP-30B	3/15/2023 7:48	0.0	0.2	19.8	0.0	-3.01	
GP-31A	3/15/2023 7:51	0.0	0.2	19.8	0.0	-0.23	
GP-31B	3/15/2023 7:52	0.0	0.2	19.7	0.0	-2.41	
GP-31C	3/15/2023 7:53	0.0	0.1	19.9	0.0	-0.13	
GP-32A	3/15/2023 7:57	0.0	0.7	19.0	0.0	-0.23	
GP-32B	3/15/2023 7:58	0.0	0.3	20.0	0.0	-1.28	
GP-32C	3/15/2023 8:00	0.0	0.2	20.1	0.0	-2.18	
GP-33A	3/15/2023 8:13	0.0	0.2	20.4	0.0	-0.19	
GP-33B	3/15/2023 8:14	0.0	0.1	20.4	0.0	-0.11	
GP-33C	3/15/2023 8:15	0.0	0.1	20.4	0.0	-3.59	
GP-34A	3/15/2023 8:18	0.0	0.9	19.8	0.0	-0.28	
GP-34B	3/15/2023 8:19	0.0	0.1	20.4	0.0	-0.26	
GP-34C	3/15/2023 8:20	0.0	0.1	20.4	0.0	-3.57	
GP-35A	3/15/2023 8:28	0.0	0.6	20.1	0.0	-1.74	
GP-35B	3/15/2023 8:29	0.0	0.1	20.3	0.0	-0.22	
GP-35C	3/15/2023 8:30	0.0	0.1	20.5	0.0	-0.22	
GP-36A	3/15/2023 8:38	0.0	0.1	20.4	0.0	-0.57	
GP-36B	3/15/2023 8:39	0.0	0.2	20.3	0.0	-0.22	
GP-36C	3/15/2023 8:41	0.0	0.2	20.3	0.0	-3.79	
GP-37A	3/15/2023 8:50	0.0	0.2	20.3	0.0	-5.63	
GP-37B	3/15/2023 8:53	0.0	0.2	20.3	0.0	-1.71	
GP-37C	3/15/2023 8:54	0.0	0.2	19.8	0.0	-4.21	
GP-41A	3/15/2023 9:09	0.0	0.1	20.1	0.0	-0.25	
GP-41B	3/15/2023 9:10	0.0	0.1	19.9	0.0	-0.46	
GP-41C	3/15/2023 9:11	0.0	0.1	20.2	0.0	-0.03	
GP-42A	3/15/2023 9:16	0.0	0.1	20.2	0.0	-2.5	
GP-42B	3/15/2023 9:17	0.0	0.4	19.2	0.0	-2.83	
GP-43A	3/15/2023 9:24	0.0	0.3	19.6	0.0	-0.46	
GP-43B	3/15/2023 9:24	0.0	0.2	20.3	0.0	-0.21	
GP-43C	3/15/2023 9:25	0.0	0.2	18.8	0.0	-0.22	
GP-44A	3/15/2023 9:29	0.0	0.1	20.6	0.0	-0.2	
GP-44B	3/15/2023 9:30	0.0	0.2	20	0.0	-2.25	
GP-44C	3/15/2023 9:31	0.0	0.1	20.7	0.0	-0.18	
GP-45D	3/15/2023 11:26	0.0	0.1	20.4	0.0	-2.6	
GP-45I	3/15/2023 11:24	0.0	0.1	20.3	0.0	-0.28	
GP-45S	3/15/2023 11:23	0.0	0.2	20.3	0.0	-0.19	

CEDAR HILLS REGIONAL LANDFILL
Supplemental Non-Compliance Landfill Gas Monitoring Probes
First Quarter 2023 Monitoring Data

Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
ATC-3D	1/12/2023 11:51	0.0	3.6	11.0	0.0	-2.0	
ATC-3S	1/12/2023 11:50	0.0	1.9	19.8	0.0	0.1	
GP-52	1/12/2023 12:38	0.0	0.3	19.8	0	-0.53	
GP-53	1/12/2023 12:39	0.0	0.7	17.6	0	0.03	
GP-54	1/12/2023 12:41	0.0	0.1	19.9	0	-0.78	
GP-5A	1/12/2023 11:43	0.0	0.1	20.6	0	-2.01	
GP-47D	1/12/2023 12:47	0	0.8	15	0	1.31	
GP-47I	1/12/2023 12:46	62.7	21.3	0.7	1254	-1.18	
GP-47S	1/12/2023 12:45	0	0.1	20.1	0	-1.11	
GP-5BA	1/12/2023 11:37	0	0.3	19.8	0	0.07	
GP-5BB	1/12/2023 11:39	0	0.1	20.7	0	-1.87	
GP-5BC	1/12/2023 11:40	0	0.1	20.7	0	-2.01	
GP-5BD	1/12/2023 11:41	0	0.1	20.7	0	-2.03	
GP-63A	1/12/2023 12:02	0	0.3	20.1	0	0.08	
GP-63B	1/12/2023 12:03	0	0.1	20.2	0	0.1	
GP-63C	1/12/2023 12:05	0	0.1	20.3	0	-0.56	
GP-64A	1/12/2023 12:30	0	0.2	20	0	-0.04	
GP-64B	1/12/2023 12:28	0	2.2	16.5	0	0.12	
GP-64C	1/12/2023 12:29	0	0.2	19.9	0	-1.56	
GP-B4-1	1/13/2023 23:49	0.4	6.4	12.9	8	0.84	
GP-B4-2	1/13/2023 23:51	0	2.1	17.5	0	0.97	
GP-3	1/13/2023 23:55	0	2.3	18.8	0	-0.05	
GP-7	1/13/2023 23:07	0	0.1	21	0	0.87	
GP-8	1/13/2023 23:03	0	2.5	15.4	0	0.88	
GP-9	1/13/2023 22:31	0	3.1	11.5	0	-0.01	
GP-1A	1/13/2023 23:11	0	0.1	21	0	0.02	
GP-1B	1/13/2023 23:13	0	0.2	21	0	0.04	
GP-2A	1/13/2023 23:37	0	4.7	7.3	0	0.11	
GP-2B	1/13/2023 23:39	0	0.1	21	0	-0.02	
GP-4A	1/13/2023 23:44	0	0.1	21	0	-0.04	
GP-4B	1/13/2023 23:45	0	0.1	21	0	-0.02	
GP-55	1/13/2023 22:57	0	0.8	21	0	0.02	
GP-56	1/13/2023 22:59	0	0.6	21	0	0.02	
GP-57	1/13/2023 22:50	36.5	20.9	0.1	730	-0.05	
GP-58	1/13/2023 22:53	0	14.7	7.4	0	0.56	
GP-59	1/13/2023 22:44	0	2.9	10.8	0	0.02	
GP-60	1/13/2023 22:47	0	0.2	21	0	0.01	
GP-61	1/13/2023 22:24	0	1.7	19.6	0	0.01	
GP-62	1/13/2023 22:26	0	1.2	20.1	0	0	
GP-6A	1/13/2023 23:21	0	0.1	21	0	0.08	
GP-6B	1/13/2023 23:23	0	0.7	20.4	0	1.04	
GP-6C	1/13/2023 23:25	0	0.1	21	0	0.99	
GP-6D	1/13/2023 23:27	0	0.1	21	0	1.02	
GP-6E	1/13/2023 23:28	0	0.1	21	0	1.13	
GP-6F	1/13/2023 23:30	0	0.1	21	0	1.03	
GP-6G	1/13/2023 23:32	0	1.2	14.9	0	0.97	
GP-6H	1/13/2023 23:33	0	0.2	21	0	0.92	
GP-46D	1/14/2023 0:04	0	0.3	21	0	0.49	
GP-46I	1/14/2023 0:02	0	0.1	21	0	-0.06	

CEDAR HILLS REGIONAL LANDFILL
Supplemental Non-Compliance Landfill Gas Monitoring Probes
First Quarter 2023 Monitoring Data

Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
GP-46S	1/14/2023 0:01	0	0.2	17.1	0	-0.1	
GP-48D	1/14/2023 0:12	1.3	0.6	20.8	26	0.34	
GP-48I	1/14/2023 0:11	0	0.3	21	0	-0.02	
GP-48S	1/14/2023 0:09	0	1.3	13.9	0	0.03	
ATC-3D	2/9/2023 11:17	0	1.7	16.1	0	-0.12	
ATC-3S	2/9/2023 11:16	0	0	0	0	0	NR H2O
GP-52	2/9/2023 12:05	0.0	0.1	20.4	0	-1.15	
GP-53	2/9/2023 12:06	0.0	0.2	19.9	0	0.64	
GP-54	2/9/2023 12:07	0.0	0.1	19.9	0	-0.17	
GP-5A	2/9/2023 11:07	0.0	0.5	12.5	0	-0.48	
GP-47D	2/9/2023 12:14	0	0.3	17.9	0	-0.2	
GP-47I	2/9/2023 12:13	65.7	22.7	0.3	1314	0.98	
GP-47S	2/9/2023 12:11	0	0.1	20.3	0	1.31	
GP-5BA	2/9/2023 11:09	0	0	0	0	0	NR H2O
GP-5BB	2/9/2023 11:10	0	0.1	20.6	0	-0.1	
GP-5BC	2/9/2023 11:11	0	0.1	20.9	0	-0.41	
GP-5BD	2/9/2023 11:12	0	0.1	20.9	0	-0.07	
GP-63A	2/9/2023 11:27	0	0.2	20.6	0	0.15	
GP-63B	2/9/2023 11:28	0	0.1	20.6	0	-0.11	
GP-63C	2/9/2023 11:29	0	0.1	20.6	0	0.38	
GP-64A	2/9/2023 11:45	0	0.1	18.8	0	-0.1	
GP-64B	2/9/2023 11:46	0	1.2	19.1	0	0.05	
GP-64C	2/9/2023 11:47	0	0.1	20.3	0	0.11	
ATC-3D	3/15/2023 14:00	0.0	2.6	13.5	0	-5.66	
ATC-3S	3/15/2023 13:59	0.0	1.8	19.5	0	-5.51	
GP-47I	3/15/2023 11:44	66.8	21.5	0.4	1336	-5.04	
GP-47S	3/15/2023 11:43	0.2	0.3	20	4	-4.95	
GP-5BA	3/15/2023 13:51	0	0.3	20.1	0	0.02	
GP-5BB	3/15/2023 13:53	0	0.2	20.5	0	-5.91	
GP-5BC	3/15/2023 13:54	0	0.2	20.5	0	-5.9	
GP-5BD	3/15/2023 13:55	0	0.1	20.5	0	-5.89	
GP-63A	3/15/2023 14:18	0	0.2	20.1	0	-0.11	
GP-63B	3/15/2023 14:20	0	0.1	20.2	0	-0.17	
GP-63C	3/15/2023 14:21	0	0.1	20.2	0	-2.99	
GP-64A	3/15/2023 14:12	0	0.2	20.1	0	-0.18	
GP-64B	3/15/2023 14:13	0	0.3	19.9	0	-0.27	
GP-64C	3/15/2023 14:15	0	0.1	20.1	0	-5.42	
GP-B4-1	3/30/2023 0:59	0	0.1	21	0	0.65	
GP-B4-2	3/30/2023 1:01	0	1.9	20	0	1.28	
GP-3	3/30/2023 1:08	0	5.3	16.5	0	0.04	
GP-7	3/30/2023 0:13	0	2.6	13	0	1.15	
GP-8	3/30/2023 0:10	0	1.5	15.7	0	1.12	
GP-9	3/29/2023 23:33	0	2.7	10.7	0	1.26	
GP-1A	3/30/2023 0:17	0	0.1	21	0	-0.04	
GP-1B	3/30/2023 0:18	0	0.1	21	0	-0.02	
GP-2A	3/30/2023 0:49	0	5.7	8.4	0	-0.08	
GP-2B	3/30/2023 0:50	0	0.1	21	0	-0.04	
GP-4A	3/30/2023 0:55	0	0.1	21	0	0.01	
GP-4B	3/30/2023 0:57	0	0.1	21	0	-0.02	

CEDAR HILLS REGIONAL LANDFILL
Supplemental Non-Compliance Landfill Gas Monitoring Probes
First Quarter 2023 Monitoring Data

Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
GP-55	3/30/2023 0:03	19.7	12.6	1.3	394	0.01	
GP-56	3/30/2023 0:05	0	0.2	21	0	-0.06	
GP-57	3/29/2023 23:55	51	24.4	0.5	1020	-5.91	
GP-58	3/29/2023 23:57	0	3.4	19	0	-0.01	
GP-59	3/29/2023 23:40	25.2	10.6	0.2	504	0.18	
GP-60	3/29/2023 23:43	0	0.1	21	0	0.02	
GP-61	3/29/2023 23:25	0	1.9	19.3	0	1.13	
GP-62	3/29/2023 23:27	0	1.1	20.3	0	-0.03	
GP-6A	3/30/2023 0:28	0	1.4	14.8	0	1.8	
GP-6B	3/30/2023 0:30	0	2.6	6.7	0	1.88	
GP-6C	3/30/2023 0:32	0	0.8	17.4	0	1.8	
GP-6D	3/30/2023 0:34	0	4	1.2	0	1.34	
GP-6E	3/30/2023 0:35	0	0.1	21	0	1.83	
GP-6F	3/30/2023 0:37	0	1.4	11.4	0	1.72	
GP-6G	3/30/2023 0:39	0	1.1	14.6	0	1.82	
GP-6H	3/30/2023 0:40	0	4	1	0	1.27	
GP-46D	3/30/2023 1:18	0	2.8	15.6	0	0.78	
GP-46I	3/30/2023 1:17	2.4	0.6	17.3	48	1.9	
GP-46S	3/30/2023 1:15	0	0.2	16.7	0	0.05	
GP-48D	3/30/2023 1:27	33.6	9.3	0.3	672	1.64	
GP-48I	3/30/2023 1:25	0	0.3	21	0	0.04	
GP-48S	3/30/2023 1:24	0	0.8	15.5	0	0.03	
GP-52	3/15/2023 9:39	0.0	0.1	20.7	0.0	-0.31	
GP-53	3/15/2023 9:40	0.0	0.4	19.7	0.0	-1.7	
GP-54	3/15/2023 9:42	0.0	0.1	20.7	0.0	-0.12	
GP-5A	3/15/2023 13:49	0.0	0.1	20.6	0.0	-5.89	

CEDAR HILLS REGIONAL LANDFILL
Supplemental Non-Compliance West Landfill Gas Monitoring Probes
First Quarter 2023 Monitoring Data

Probe ID	Date	Time	Barometric Pressure	CH4	CO2	O2	Static Pressure	Comments
			in Hg	(% Vol)	(% Vol)	(% Vol)	(in INWC)	
MGPW 1700	1/4/2023	12:00pm	29.72	0.0	0.1	20.9	-0.1	
MGPW 1700	1/24/2023	2:15pm	30.38	0.0	0.3	20.1	-0.08	
MGPW 1700	2/4/2023	10:23AM	29.92	0.0	0.5	19.3	-0.06	
MGPW 1700	2/18/2023	10:55AM	30.00	0.0	0.4	20.5	-0.26	
MGPW 1700	3/28/2023	1:30PM	29.73	0.0	0.3	19.6	0.20	
MGPW 1708	1/4/2023	11:45pm	29.72	0.0	0.1	20.1	0.52	
MGPW 1708	1/24/2023	2:05pm	30.38	0.0	0.2	19.8	-1.78	
MGPW 1708	2/4/2023	10:15AM	29.92	0.0	0.5	20.2	-0.41	
MGPW 1708	2/18/2023	10:34AM	30.00	0.0	0.2	21.0	-0.15	
MGPW 1708	3/28/2023	1:20PM	29.73	0.0	7.5	5.80	1.07	
MGPW 1710S	1/4/2023	11:40pm	29.72	0.0	0.1	20.9	0.51	
MGPW 1710S	1/24/2023	2:05	30.38	0.0	0.2	19.5	-0.96	
MGPW 1710S	2/4/2023	10:09AM	29.92	0.0	0.3	21.1	-0.63	
MGPW 1710S	2/18/2023	10:28AM	30.00	0.0	0.2	20.8	-0.42	
MGPW 1710S	3/28/2023	1:11PM	29.73	0.0	11.4	8.90	0.65	
MGPW 1710D	1/4/2023	11:35pm	29.72	0.0	0.1	20.2	0.33	
MGPW 1710D	1/24/2023	2:00pm	30.38	0.0	0.2	19.8	-1.69	
MGPW 1710D	2/4/2023	10:11AM	29.92	0.0	0.2	21.4	-0.24	
MGPW 1710D	2/18/2023	10:30AM	30.00	0.0	0.1	21.0	-0.33	
MGPW 1710D	3/28/2023	1:13AM	29.73	6.5	20.1	0.30	0.93	
MGPW 1714	1/4/2023	11:30pm	29.72	0.0	0.1	19.9	0.36	
MGPW 1714	1/24/2023	1:55pm	30.38	0.0	0.3	19.4	-1.64	
MGPW 1714	2/4/2023	10:05AM	29.92	0.0	0.3	21.0	-0.49	
MGPW 1714	2/18/2023	10:10AM	30.00	0.0	0.2	20.8	-0.38	
MGPW 1714	3/28/2023	1:06PM	29.7	0.0	9.8	9.30	0.80	

APPENDIX C

Meteorological Data

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/1/23 0:00	0.816	106.9	21.47	5.015	29.21	0
1/1/23 0:15	1.146	65.08	13.27	4.956	29.22	0
1/1/23 0:30	1.213	105.9	18.69	4.808	29.22	0
1/1/23 0:45	0.969	109.5	9.34	4.754	29.22	0
1/1/23 1:00	0.341	105.2	17.49	4.787	29.22	0
1/1/23 1:15	0.594	123.6	10.01	4.828	29.23	0
1/1/23 1:30	0.727	240.3	8.76	4.873	29.23	0
1/1/23 1:45	1.09	167.3	14.3	4.897	29.23	0
1/1/23 2:00	0.869	167.5	19.21	4.888	29.24	0
1/1/23 2:15	0.866	154	16.12	4.761	29.24	0
1/1/23 2:30	0.233	126.7	14.34	4.722	29.25	0
1/1/23 2:45	0.319	11.97	68.08	4.767	29.26	0
1/1/23 3:00	0.386	125.6	49.52	4.749	29.26	0
1/1/23 3:15	0.106	342.2	14.01	4.795	29.27	0
1/1/23 3:30	0.649	290.4	28.27	4.877	29.27	0
1/1/23 3:45	0.097	320.1	33.44	4.669	29.27	0
1/1/23 4:00	0.246	200.1	55.47	4.688	29.27	0.01
1/1/23 4:15	1.092	173.2	21.6	4.591	29.27	0.01
1/1/23 4:30	0.834	135.9	14.4	4.264	29.27	0
1/1/23 4:45	0.612	155.1	23.78	4.33	29.27	0
1/1/23 5:00	0.171	99.6	4.724	4.533	29.28	0
1/1/23 5:15	0.633	137.2	24.85	4.563	29.28	0
1/1/23 5:30	1.363	196.9	13.35	4.493	29.28	0
1/1/23 5:45	0.72	193.4	4.737	4.516	29.28	0
1/1/23 6:00	0.4	191	75.64	4.382	29.28	0
1/1/23 6:15	0.789	162.6	17.51	4.305	29.28	0
1/1/23 6:30	0.321	23.86	58.57	4.246	29.29	0
1/1/23 6:45	0.168	234	3.908	4.356	29.3	0
1/1/23 7:00	0.434	52.33	49.91	4.296	29.3	0
1/1/23 7:15	0.675	16.13	11.54	4.303	29.3	0
1/1/23 7:30	0.311	343.1	10.82	4.258	29.3	0
1/1/23 7:45	0.306	35.7	11.66	4.352	29.3	0
1/1/23 8:00	0.63	81.7	10.41	4.152	29.3	0
1/1/23 8:15	0.841	145.3	42.61	4.122	29.3	0
1/1/23 8:30	1.101	171.7	17.87	4.147	29.3	0
1/1/23 8:45	0.856	182.5	18.06	4.058	29.31	0
1/1/23 9:00	0.315	27.58	25.29	4.399	29.31	0
1/1/23 9:15	0.281	3.979	32.57	4.31	29.32	0
1/1/23 9:30	1.166	233.7	6.402	4.617	29.33	0
1/1/23 9:45	0.47	235.8	51.39	4.693	29.33	0
1/1/23 10:00	1.306	7.861	18.95	4.506	29.33	0
1/1/23 10:15	1.551	313.4	8.73	4.708	29.34	0
1/1/23 10:30	1.206	304.6	22.28	4.909	29.34	0
1/1/23 10:45	2.211	307.4	8.16	5.088	29.34	0
1/1/23 11:00	2.217	302.8	8.07	5.095	29.33	0
1/1/23 11:15	1.369	335.1	20.77	5.163	29.33	0
1/1/23 11:30	0.524	350.5	30.03	5.122	29.32	0
1/1/23 11:45	0.517	71.57	21.27	5.428	29.31	0
1/1/23 12:00	1.179	107.8	35.36	5.431	29.3	0
1/1/23 12:15	1.701	140.4	14.16	5.558	29.29	0
1/1/23 12:30	1.867	129.6	14.87	6.02	29.27	0
1/1/23 12:45	1.295	106.2	28.23	6.693	29.27	0
1/1/23 13:00	1.452	223.6	24.51	6.627	29.26	0
1/1/23 13:15	1.329	173.6	38.23	6.3	29.26	0
1/1/23 13:30	0.351	97.5	34.4	6.592	29.25	0
1/1/23 13:45	2.435	291.2	11.26	7.18	29.26	0
1/1/23 14:00	4.015	297.1	10.9	6.582	29.26	0
1/1/23 14:15	2.679	312	16.26	6.64	29.27	0
1/1/23 14:30	2.335	295.2	11.3	6.95	29.27	0
1/1/23 14:45	1.48	330.2	39.04	7.25	29.27	0
1/1/23 15:00	1.668	3.462	21.6	6.409	29.27	0
1/1/23 15:15	1.419	323.1	11.44	6.338	29.27	0
1/1/23 15:30	1.622	353.1	21.95	6.544	29.27	0
1/1/23 15:45	0.813	17.08	17.95	6.317	29.26	0
1/1/23 16:00	0.671	13.92	22.49	6.072	29.25	0
1/1/23 16:15	0.903	317.2	13.2	6.015	29.25	0
1/1/23 16:30	1.052	314.4	7.302	6.017	29.25	0
1/1/23 16:45	1.298	303.2	12.89	5.816	29.24	0
1/1/23 17:00	1.223	51.25	24.82	5.252	29.23	0
1/1/23 17:15	1.772	60.92	11.49	4.938	29.23	0
1/1/23 17:30	1.374	99	6.424	5	29.22	0
1/1/23 17:45	0.776	127.5	71.41	4.767	29.22	0
1/1/23 18:00	1.179	333.7	25.83	4.083	29.22	0
1/1/23 18:15	1.158	24.6	6.362	4.044	29.22	0
1/1/23 18:30	0.9	18.8	7.239	3.933	29.22	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/1/23 18:45	1.159	30.98	4.043	3.883	29.21	0
1/1/23 19:00	1.198	55.04	18.83	3.668	29.21	0
1/1/23 19:15	1.133	102.4	7.834	3.514	29.21	0
1/1/23 19:30	1.091	101.9	23.56	3.303	29.2	0
1/1/23 19:45	1.671	192.6	10.73	3.384	29.2	0
1/1/23 20:00	1.412	161.6	32.88	2.827	29.2	0
1/1/23 20:15	0.708	78.98	29.46	2.994	29.2	0
1/1/23 20:30	0.93	17.24	9.35	3.145	29.19	0
1/1/23 20:45	0.606	27.23	56.73	2.826	29.19	0
1/1/23 21:00	1.262	158.5	12.45	2.225	29.18	0
1/1/23 21:15	1.078	144.9	19.13	1.882	29.18	0
1/1/23 21:30	1.873	113.7	7.213	2.321	29.17	0
1/1/23 21:45	2.465	107.6	4.448	1.937	29.16	0
1/1/23 22:00	1.588	103.1	5.837	1.998	29.15	0
1/1/23 22:15	1.71	114.2	12.77	2.714	29.15	0
1/1/23 22:30	2.152	229.5	23.93	2.042	29.15	0
1/1/23 22:45	1.064	220.6	26.17	1.645	29.15	0
1/1/23 23:00	0.931	12.6	33.32	1.731	29.15	0
1/1/23 23:15	1.318	309.2	31.92	1.503	29.15	0
1/1/23 23:30	0.474	338.5	36.46	1.974	29.15	0
1/1/23 23:45	0.483	54.97	25.72	2.181	29.14	0
1/2/23 0:00	1.289	129.6	12.38	2.335	29.14	0
1/2/23 0:15	1.567	126.2	9.66	2.709	29.13	0
1/2/23 0:30	1.52	120.9	20.77	2.79	29.12	0
1/2/23 0:45	0.571	40.32	24.97	2.449	29.11	0
1/2/23 1:00	1.487	83.7	14.99	2.531	29.1	0
1/2/23 1:15	2.363	99	9.35	2.299	29.09	0
1/2/23 1:30	3.267	112	7.343	2.749	29.08	0
1/2/23 1:45	3.031	113.1	8.14	3.174	29.07	0
1/2/23 2:00	3.076	114.6	10.33	3.137	29.06	0
1/2/23 2:15	3.088	127.5	9.35	3.662	29.05	0
1/2/23 2:30	2.571	134.3	8.38	3.594	29.04	0
1/2/23 2:45	2.932	136.1	7.937	3.596	29.04	0
1/2/23 3:00	3.456	118.8	13.36	3.726	29.03	0
1/2/23 3:15	4.417	110.6	11.8	3.63	29.01	0
1/2/23 3:30	4.61	120.9	12.26	3.955	29	0
1/2/23 3:45	4.779	133.6	11.06	4.328	29	0
1/2/23 4:00	4.706	109.5	13.25	4.545	28.99	0
1/2/23 4:15	5.373	101.7	10.67	4.331	28.98	0
1/2/23 4:30	5.287	117.1	11.75	4.855	28.98	0
1/2/23 4:45	4.954	121.3	10.28	5.405	28.98	0
1/2/23 5:00	3.602	114.6	12.34	5.1	28.99	0
1/2/23 5:15	2.55	118.7	13.32	4.5	28.99	0
1/2/23 5:30	3.187	94.8	17.11	3.843	28.99	0
1/2/23 5:45	3.524	110.8	16.01	4.144	28.99	0
1/2/23 6:00	1.812	115.4	25.69	3.598	29	0
1/2/23 6:15	2.313	56.32	20.33	1.207	28.99	0
1/2/23 6:30	3.155	60.41	22.16	0.591	28.98	0
1/2/23 6:45	3.798	103	13.66	4.212	28.98	0
1/2/23 7:00	3.28	93.9	26.33	3.637	28.97	0
1/2/23 7:15	2.391	75.62	19.42	2.344	28.96	0
1/2/23 7:30	2.052	81.6	26.93	3.131	28.95	0
1/2/23 7:45	3.158	140.9	10.48	4.436	28.94	0
1/2/23 8:00	3.203	140.5	11.15	4.681	28.93	0
1/2/23 8:15	3.686	128.7	12.23	4.73	28.92	0
1/2/23 8:30	4.704	135.5	10.76	5.154	28.92	0
1/2/23 8:45	5.192	127.5	11.54	5.439	28.92	0
1/2/23 9:00	4.716	126.3	10.9	5.644	28.92	0
1/2/23 9:15	4.46	131.9	10.2	5.55	28.92	0
1/2/23 9:30	5.356	125.5	9.73	5.669	28.91	0
1/2/23 9:45	5.629	123.6	10.21	5.7	28.91	0
1/2/23 10:00	5.963	120.2	12.13	5.915	28.91	0
1/2/23 10:15	6.4	115.6	12.2	6.059	28.9	0
1/2/23 10:30	5.777	116.3	11.41	6.279	28.9	0
1/2/23 10:45	5.578	120.3	13.08	6.69	28.89	0
1/2/23 11:00	5.104	121.9	12.6	6.923	28.89	0
1/2/23 11:15	4.69	115	15.12	7.141	28.89	0
1/2/23 11:30	5.32	112.5	13.54	7.392	28.88	0
1/2/23 11:45	5.69	119.8	13.09	7.681	28.87	0
1/2/23 12:00	5.615	106.6	14.29	7.891	28.87	0
1/2/23 12:15	5.943	111.1	14.54	7.957	28.86	0
1/2/23 12:30	6.693	118.9	12.27	7.851	28.85	0
1/2/23 12:45	6.542	121.2	11.41	7.482	28.85	0
1/2/23 13:00	6.426	115.5	13.95	7.876	28.84	0
1/2/23 13:15	5.647	114	14.06	7.858	28.84	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/2/23 13:30	5.664	124	14.34	7.885	28.84	0
1/2/23 13:45	4.996	130.6	15.7	7.743	28.85	0
1/2/23 14:00	4.613	137.9	15.12	7.374	28.85	0
1/2/23 14:15	5.409	129.1	11.23	7.064	28.85	0
1/2/23 14:30	6.064	123.2	11.5	6.877	28.85	0
1/2/23 14:45	6.279	125.3	10.73	6.793	28.85	0
1/2/23 15:00	6.209	121.2	11.78	6.9	28.85	0
1/2/23 15:15	6.614	121.4	11.42	6.958	28.84	0
1/2/23 15:30	5.678	122.8	11.15	6.9	28.84	0
1/2/23 15:45	4.807	131.6	10.47	6.681	28.85	0
1/2/23 16:00	5.18	119.3	16.43	6.304	28.85	0
1/2/23 16:15	4.85	110	12.46	6.069	28.84	0
1/2/23 16:30	5.007	122.1	10.49	5.91	28.83	0
1/2/23 16:45	6.34	128.9	11.3	5.784	28.84	0
1/2/23 17:00	5.681	137.3	9.71	5.373	28.84	0
1/2/23 17:15	5.575	128.9	11.37	5.324	28.84	0
1/2/23 17:30	4.244	119.5	15.12	5.139	28.84	0
1/2/23 17:45	5.049	123.1	13.11	4.999	28.84	0
1/2/23 18:00	5.994	136.4	11.55	4.833	28.85	0
1/2/23 18:15	6.471	125.7	11.26	4.682	28.85	0
1/2/23 18:30	6.944	122.8	11.83	4.645	28.85	0
1/2/23 18:45	7.537	121.8	10.95	4.527	28.85	0
1/2/23 19:00	6.855	121.4	11.55	4.403	28.85	0
1/2/23 19:15	4.704	121.6	14.92	4.221	28.85	0
1/2/23 19:30	6.11	139.3	11.51	4.074	28.86	0
1/2/23 19:45	6.463	134.5	11.86	4.115	28.87	0
1/2/23 20:00	5.249	135.1	12.07	3.832	28.88	0
1/2/23 20:15	3.952	126.9	17.95	3.616	28.88	0
1/2/23 20:30	5.562	125	15.17	3.506	28.87	0
1/2/23 20:45	5.609	127	11.7	3.499	28.88	0
1/2/23 21:00	4.844	123.7	13.75	3.392	28.88	0
1/2/23 21:15	5.12	125.9	11.71	3.338	28.88	0
1/2/23 21:30	5.103	126.1	13.69	3.413	28.89	0
1/2/23 21:45	4.581	130.4	12.48	3.341	28.89	0
1/2/23 22:00	5.77	125.9	11.16	3.524	28.88	0
1/2/23 22:15	6.521	125.2	13.23	3.516	28.89	0
1/2/23 22:30	6.668	127.1	11.84	3.562	28.89	0
1/2/23 22:45	6.17	123.7	12.84	3.654	28.89	0
1/2/23 23:00	5.133	127	12.38	3.753	28.9	0
1/2/23 23:15	3.941	139.5	13.54	3.756	28.9	0
1/2/23 23:30	4.464	147.4	11.45	3.696	28.9	0
1/2/23 23:45	6.051	144.8	13.2	3.718	28.91	0
1/3/23 0:00	5.616	135.4	14.45	3.956	28.91	0
1/3/23 0:15	5.102	118.5	13.19	4.004	28.91	0
1/3/23 0:30	4.361	123.6	16.29	3.957	28.91	0
1/3/23 0:45	5.885	127.2	12.03	3.995	28.91	0
1/3/23 1:00	4.827	150.6	16.99	3.793	28.92	0
1/3/23 1:15	5.215	161.4	15.9	3.678	28.93	0
1/3/23 1:30	6.262	131.7	12.35	3.703	28.93	0
1/3/23 1:45	5.69	124.9	10.49	3.645	28.94	0
1/3/23 2:00	5.938	127.8	13.09	3.73	28.94	0
1/3/23 2:15	5.339	138.2	9.96	3.591	28.95	0
1/3/23 2:30	4.392	130.3	10.77	3.421	28.96	0
1/3/23 2:45	3.702	134.7	9.52	3.291	28.97	0
1/3/23 3:00	4.016	122.8	9.6	3.259	28.97	0
1/3/23 3:15	4.68	121	10.42	3.207	28.97	0
1/3/23 3:30	4.307	122.4	12.44	3.11	28.97	0
1/3/23 3:45	4.125	130.8	9.95	3.079	28.97	0
1/3/23 4:00	4.606	127.4	10.49	3.128	28.97	0
1/3/23 4:15	4.264	135	9.52	3.123	28.98	0
1/3/23 4:30	4.73	127	9.78	2.87	28.98	0
1/3/23 4:45	4.257	126.1	10.96	2.32	28.98	0.01
1/3/23 5:00	4.803	118.7	11.26	1.929	28.98	0
1/3/23 5:15	5.025	124	10.82	2.035	28.98	0
1/3/23 5:30	5.249	124.7	10.12	2.455	28.98	0
1/3/23 5:45	5.167	122.6	10.63	2.841	28.98	0
1/3/23 6:00	4.714	129.2	12.55	2.993	28.98	0
1/3/23 6:15	4.918	135.4	11.24	2.887	28.99	0
1/3/23 6:30	4.436	134.8	11.81	2.744	28.99	0
1/3/23 6:45	5.146	120.9	10.01	2.747	28.99	0
1/3/23 7:00	5.378	120.7	9.97	2.919	28.99	0
1/3/23 7:15	5.708	121.1	9.41	3.105	28.99	0
1/3/23 7:30	5.161	126.3	11.12	3.287	29	0
1/3/23 7:45	3.722	146.3	11.64	3.314	29	0
1/3/23 8:00	3.812	128.3	11.46	3.336	29	0.01

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/3/23 8:15	4.352	114.9	12.04	3.421	29.01	0
1/3/23 8:30	3.588	107.1	10.68	3.581	29.01	0
1/3/23 8:45	3.563	121.2	14.17	3.768	29.01	0
1/3/23 9:00	3.94	133.6	11.24	3.869	29.02	0
1/3/23 9:15	3.918	127	9.13	3.693	29.02	0
1/3/23 9:30	3.601	124.1	10.84	3.676	29.03	0
1/3/23 9:45	3.5	133.5	14.95	3.832	29.04	0
1/3/23 10:00	4.937	119.3	11.82	4.046	29.04	0
1/3/23 10:15	5.341	118.1	10.36	4.259	29.04	0
1/3/23 10:30	5.409	118.3	11.6	4.655	29.04	0
1/3/23 10:45	4.932	126.8	11.64	4.822	29.04	0
1/3/23 11:00	4.729	124.9	11.41	5.083	29.04	0
1/3/23 11:15	4.842	119.6	11.4	5.693	29.04	0
1/3/23 11:30	4.23	133	12.72	6.432	29.03	0
1/3/23 11:45	4.063	124.8	11.93	5.888	29.03	0
1/3/23 12:00	3.896	125.2	12.1	6.681	29.03	0
1/3/23 12:15	3.939	120.5	11.59	6.372	29.03	0
1/3/23 12:30	3.715	126.7	11.16	6.678	29.03	0
1/3/23 12:45	3.988	127.6	11.41	7.269	29.02	0
1/3/23 13:00	4.557	131	9.68	7.477	29.02	0
1/3/23 13:15	4.39	127.3	9.86	7.271	29.02	0
1/3/23 13:30	3.547	124.3	11.16	6.539	29.02	0
1/3/23 13:45	4.017	126.3	11.5	6.692	29.02	0
1/3/23 14:00	4.276	121.6	10	6.852	29.02	0
1/3/23 14:15	4.91	121.8	11.09	6.961	29.01	0
1/3/23 14:30	4.757	121.9	10.49	7.195	29.01	0
1/3/23 14:45	4.369	117	10.6	7.178	29.01	0
1/3/23 15:00	3.522	131.4	11.21	6.995	29.01	0
1/3/23 15:15	3.116	129.6	11.13	6.73	29.01	0
1/3/23 15:30	2.304	112.7	20.24	6.419	29.01	0
1/3/23 15:45	1.69	111.9	13.44	6.289	29.01	0
1/3/23 16:00	1.752	119.7	10.91	5.914	29.01	0
1/3/23 16:15	2.202	144.2	8.62	5.789	29.02	0
1/3/23 16:30	2.816	143.8	8.36	5.48	29.02	0
1/3/23 16:45	3.434	113.2	12.34	5.358	29.02	0
1/3/23 17:00	3.078	107.2	14.03	5.244	29.02	0
1/3/23 17:15	3.17	126.6	8.69	5.214	29.01	0
1/3/23 17:30	2.853	115.7	10.43	5.396	29.01	0
1/3/23 17:45	2.702	140.9	13.77	5.113	29.01	0
1/3/23 18:00	3.213	115.8	18.47	4.758	29.01	0
1/3/23 18:15	3.778	110.9	10.84	4.432	29.01	0
1/3/23 18:30	3.516	119.3	9.77	4.828	29	0
1/3/23 18:45	2.616	130.3	9.63	4.689	29.01	0
1/3/23 19:00	2.929	123.6	8.74	4.501	29.01	0
1/3/23 19:15	2.819	126.4	9.69	4.29	29.01	0
1/3/23 19:30	2.923	136.8	15.41	4.315	29.01	0
1/3/23 19:45	2.893	122.8	18.2	4.454	29.02	0
1/3/23 20:00	3.19	113.8	16.45	4.537	29.02	0
1/3/23 20:15	4.57	118.6	15.14	4.807	29.03	0
1/3/23 20:30	3.918	112.7	12.76	4.687	29.03	0
1/3/23 20:45	3.643	130.2	16.4	4.487	29.04	0
1/3/23 21:00	4.49	129.9	11.96	4.481	29.05	0
1/3/23 21:15	4.887	119.8	15.76	4.411	29.05	0
1/3/23 21:30	5.028	108.5	13.38	4.549	29.05	0
1/3/23 21:45	5.622	111.6	11.81	4.793	29.05	0
1/3/23 22:00	3.841	118.7	12.7	4.703	29.05	0
1/3/23 22:15	3.835	124.6	17.85	4.502	29.06	0
1/3/23 22:30	4.168	124.5	18.78	4.483	29.06	0
1/3/23 22:45	4.463	119.5	13.73	4.399	29.07	0
1/3/23 23:00	5.278	131.6	11.97	4.343	29.07	0
1/3/23 23:15	3.478	129.8	14.58	4.289	29.08	0
1/3/23 23:30	4.763	135.2	14.03	4.38	29.08	0
1/3/23 23:45	5.807	134.3	11.51	4.46	29.09	0
1/4/23 0:00	6.615	140.4	10.36	4.367	29.1	0
1/4/23 0:15	6.004	130.5	12.83	4.317	29.11	0
1/4/23 0:30	5.38	116.2	12.64	4.249	29.11	0
1/4/23 0:45	5.981	113.4	12.67	4.255	29.1	0
1/4/23 1:00	6.075	121.7	10.09	4.138	29.1	0
1/4/23 1:15	4.284	104.3	17.36	3.915	29.1	0
1/4/23 1:30	2.612	110.9	17.59	3.95	29.1	0
1/4/23 1:45	1.682	129	41.77	4.181	29.11	0
1/4/23 2:00	2.697	120.4	31.84	4.213	29.11	0
1/4/23 2:15	4.555	127.9	15.99	4.413	29.11	0
1/4/23 2:30	5.2	132	19.24	4.258	29.12	0
1/4/23 2:45	4.227	106.1	13.27	4.142	29.11	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/4/23 3:00	3.664	100.3	16.25	4.288	29.11	0
1/4/23 3:15	5.181	116	12.99	4.538	29.1	0
1/4/23 3:30	4.552	115.7	12.16	4.695	29.1	0
1/4/23 3:45	3.914	124	13.73	4.595	29.09	0
1/4/23 4:00	4.012	118.3	13.14	4.509	29.09	0
1/4/23 4:15	5.029	115.5	14.1	4.548	29.09	0
1/4/23 4:30	4.056	112.7	13.36	4.403	29.08	0
1/4/23 4:45	3.117	118.8	14.5	4.208	29.08	0
1/4/23 5:00	2.995	94.2	16.69	4.045	29.07	0
1/4/23 5:15	3.851	108.4	11.76	3.967	29.06	0
1/4/23 5:30	4.602	111.1	11.92	3.999	29.04	0
1/4/23 5:45	4.8	116.3	11.32	3.797	29.03	0
1/4/23 6:00	4.812	123.8	11.68	3.701	29.03	0
1/4/23 6:15	5.361	126.3	10.99	3.611	29.04	0
1/4/23 6:30	5.358	123.8	11.05	3.707	29.05	0
1/4/23 6:45	4.973	122.9	10.92	3.584	29.05	0
1/4/23 7:00	4.55	115.7	13.64	3.756	29.06	0
1/4/23 7:15	5.072	110.9	13.31	3.811	29.05	0
1/4/23 7:30	5.221	110.6	13.72	3.752	29.05	0
1/4/23 7:45	4.732	114.2	11.95	3.795	29.05	0
1/4/23 8:00	5.266	129.9	10.77	3.893	29.05	0
1/4/23 8:15	5.029	114.5	11.38	4.075	29.04	0
1/4/23 8:30	5.531	110.1	11.71	4.624	29.04	0
1/4/23 8:45	5.385	108.9	11.75	5.209	29.03	0
1/4/23 9:00	4.18	98.1	15.98	5.398	29.03	0
1/4/23 9:15	4.853	101.8	18.12	5.901	29.02	0
1/4/23 9:30	5.406	97.3	16.42	6.466	29.01	0
1/4/23 9:45	6.172	107.6	16.83	7.044	29	0
1/4/23 10:00	6.222	99.6	17.94	7.403	28.98	0
1/4/23 10:15	5.9	106.4	17.89	7.834	28.97	0
1/4/23 10:30	7.293	101.9	15.22	8.1	28.96	0
1/4/23 10:45	7.619	100.6	16.33	8.22	28.96	0
1/4/23 11:00	8.76	104.9	18.71	8.33	28.95	0
1/4/23 11:15	8.98	103.8	15.69	8.58	28.94	0
1/4/23 11:30	8.36	106.5	14.11	8.71	28.93	0
1/4/23 11:45	8.71	110.5	14.39	8.84	28.92	0
1/4/23 12:00	8.96	108.4	13.92	8.88	28.91	0
1/4/23 12:15	9.91	109.2	15.25	8.93	28.9	0
1/4/23 12:30	8.46	107.8	13.39	9.07	28.89	0
1/4/23 12:45	9.53	112.7	13.7	9.06	28.88	0
1/4/23 13:00	9.49	104.2	16.08	8.99	28.88	0
1/4/23 13:15	9.33	103.9	14.39	9.07	28.86	0
1/4/23 13:30	8.42	106.3	14.8	9.05	28.86	0
1/4/23 13:45	8.8	102.8	15.57	9.07	28.85	0
1/4/23 14:00	9.24	109.1	15.84	8.96	28.85	0
1/4/23 14:15	8.84	115.9	13.63	8.85	28.84	0
1/4/23 14:30	9.78	112.1	15.2	8.81	28.84	0
1/4/23 14:45	9.01	110.2	15.92	8.83	28.84	0
1/4/23 15:00	9.76	110.5	15.63	8.83	28.84	0
1/4/23 15:15	8.95	109	14.34	8.8	28.84	0
1/4/23 15:30	10.23	110.1	13.58	8.74	28.84	0
1/4/23 15:45	10.65	111.6	15.16	8.65	28.84	0
1/4/23 16:00	10.16	111	13.56	8.71	28.84	0
1/4/23 16:15	10.63	109.1	13.19	8.74	28.84	0
1/4/23 16:30	10.32	105.7	14.92	8.55	28.83	0
1/4/23 16:45	9.32	113.6	14.26	8.42	28.82	0
1/4/23 17:00	10.14	113.3	14.52	8.55	28.82	0
1/4/23 17:15	9.49	112.5	14.84	8.41	28.82	0
1/4/23 17:30	10.35	118.6	13.58	8.26	28.82	0
1/4/23 17:45	10.97	113.4	13.86	8.24	28.81	0
1/4/23 18:00	12.02	115.1	13.75	8.45	28.8	0
1/4/23 18:15	10.67	111	14.47	8.58	28.79	0
1/4/23 18:30	10.26	112.4	14.37	8.66	28.78	0
1/4/23 18:45	10.45	108.7	14.22	8.57	28.77	0
1/4/23 19:00	10.22	109.9	14.26	8.76	28.76	0
1/4/23 19:15	11.76	109.1	15.43	8.88	28.74	0
1/4/23 19:30	9.42	106.6	14.5	9.23	28.73	0
1/4/23 19:45	11.66	102.7	15.21	9.48	28.72	0
1/4/23 20:00	13.28	107	13.75	9.61	28.71	0
1/4/23 20:15	11.61	110.9	15.26	9.71	28.7	0
1/4/23 20:30	10.49	116.3	15.2	9.7	28.7	0
1/4/23 20:45	11.18	115.7	14.69	9.68	28.7	0
1/4/23 21:00	10.25	116.7	14.56	9.67	28.71	0
1/4/23 21:15	11.12	113.7	13.5	9.61	28.71	0
1/4/23 21:30	9.73	113.2	13.76	9.57	28.71	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/4/23 21:45	9.86	112.9	13.23	9.73	28.7	0
1/4/23 22:00	10.18	110.9	13.71	9.76	28.7	0
1/4/23 22:15	8.55	104.7	15.06	9.73	28.69	0
1/4/23 22:30	8.32	109.3	14.94	10.01	28.68	0
1/4/23 22:45	9.12	112.7	13.82	10.26	28.67	0
1/4/23 23:00	8.92	113.6	13.92	10.26	28.67	0
1/4/23 23:15	9.82	112.5	14.03	10.23	28.66	0
1/4/23 23:30	10.47	113.9	13.24	10.4	28.64	0
1/4/23 23:45	10.29	108.7	14.99	10.78	28.63	0
1/5/23 0:00	8.2	111.6	13.1	10.64	28.62	0
1/5/23 0:15	9.41	116.4	14.39	10.63	28.61	0
1/5/23 0:30	12.07	116.7	11.57	10.79	28.61	0
1/5/23 0:45	12.36	119.2	12.78	10.59	28.61	0
1/5/23 1:00	12.34	117.6	11.65	10.54	28.6	0
1/5/23 1:15	13.08	119.4	13.04	10.73	28.59	0
1/5/23 1:30	11.76	119.7	11.4	10.8	28.61	0
1/5/23 1:45	11.54	119.2	11.78	10.99	28.61	0
1/5/23 2:00	11.08	120.5	11.81	10.94	28.62	0
1/5/23 2:15	13.24	119.3	11.18	10.9	28.62	0
1/5/23 2:30	12.2	119.7	11.87	10.66	28.62	0
1/5/23 2:45	11.18	122.6	11.27	10.65	28.62	0
1/5/23 3:00	10.66	125.2	13.36	10.72	28.63	0
1/5/23 3:15	11.22	122.8	13.01	10.73	28.62	0
1/5/23 3:30	9.95	125.2	11.35	10.58	28.62	0
1/5/23 3:45	10.48	121.6	11.78	10.31	28.62	0
1/5/23 4:00	9.09	119.9	12.97	10.42	28.62	0
1/5/23 4:15	8.2	117.4	12.92	10.48	28.62	0
1/5/23 4:30	9.58	123.5	10.9	10.34	28.63	0
1/5/23 4:45	10.09	119.2	12.02	10.47	28.62	0
1/5/23 5:00	11.68	117	12.84	10.75	28.62	0
1/5/23 5:15	10.13	114.8	12.93	10.68	28.62	0
1/5/23 5:30	10.57	117.3	12	10.58	28.62	0
1/5/23 5:45	10.42	114.3	12.05	10.57	28.61	0
1/5/23 6:00	10.83	113.7	12.84	10.6	28.6	0
1/5/23 6:15	9.25	110.7	13.39	10.6	28.59	0
1/5/23 6:30	10.72	117.7	12.61	10.72	28.59	0
1/5/23 6:45	10.96	119.3	12.11	10.69	28.59	0
1/5/23 7:00	11.04	117.3	12.59	10.54	28.59	0
1/5/23 7:15	10.05	112.3	13.93	10.44	28.59	0
1/5/23 7:30	9.61	111.8	11.94	10.56	28.6	0
1/5/23 7:45	9.93	115.5	12.21	10.6	28.59	0
1/5/23 8:00	9.56	112.5	12.23	10.75	28.58	0
1/5/23 8:15	8.7	113.8	14.62	10.99	28.58	0
1/5/23 8:30	8.84	116.9	12.51	11.12	28.59	0
1/5/23 8:45	8.76	118.7	11.98	11.23	28.59	0
1/5/23 9:00	9.9	118	10.9	11.2	28.59	0
1/5/23 9:15	10.11	113.7	11.55	11.25	28.59	0
1/5/23 9:30	10.63	118.3	11.53	11.29	28.6	0
1/5/23 9:45	9.42	115.3	12.23	11.25	28.62	0
1/5/23 10:00	10.19	116.4	11.9	11.39	28.62	0
1/5/23 10:15	11.23	116	12.57	11.42	28.63	0
1/5/23 10:30	11.16	116.4	11.24	11.44	28.64	0
1/5/23 10:45	11.05	116.8	12.5	11.46	28.64	0
1/5/23 11:00	11.09	115.6	11.59	11.5	28.65	0
1/5/23 11:15	11.02	116.2	10.04	11.65	28.65	0
1/5/23 11:30	9.57	115.7	13.18	12.03	28.66	0
1/5/23 11:45	10.01	118	11.79	12.1	28.65	0
1/5/23 12:00	8.86	116.1	11.79	12.18	28.65	0
1/5/23 12:15	9.75	117.5	11.56	12.02	28.66	0
1/5/23 12:30	9.21	113	12.56	12.06	28.66	0
1/5/23 12:45	9.59	115	11.98	11.94	28.65	0
1/5/23 13:00	9.63	118.4	10.84	11.99	28.66	0
1/5/23 13:15	9.65	117.5	11.97	12.04	28.66	0
1/5/23 13:30	8.94	118.3	11.02	11.97	28.67	0
1/5/23 13:45	8.97	118	10.87	11.91	28.69	0
1/5/23 14:00	7.851	115.5	12.51	11.84	28.68	0
1/5/23 14:15	6.984	115.7	12.97	11.88	28.68	0
1/5/23 14:30	8.25	114	11.56	11.97	28.69	0
1/5/23 14:45	7.957	114.5	12.56	11.86	28.69	0
1/5/23 15:00	7.851	114.2	12.34	11.87	28.69	0
1/5/23 15:15	7.309	124.3	12.7	11.87	28.7	0
1/5/23 15:30	7.478	117.2	11.14	11.87	28.71	0
1/5/23 15:45	6.325	117.9	10.61	11.82	28.73	0
1/5/23 16:00	6.685	120.4	9.64	11.81	28.73	0
1/5/23 16:15	5.909	117.9	12.49	11.75	28.74	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/5/23 16:30	5.764	119.8	11.49	11.74	28.75	0
1/5/23 16:45	6.078	117	10.81	11.71	28.76	0
1/5/23 17:00	5.848	122.7	11.23	11.63	28.77	0
1/5/23 17:15	5.185	121.9	11.83	11.42	28.78	0
1/5/23 17:30	4.164	141.4	32.13	11.35	28.8	0
1/5/23 17:45	3.196	142.7	22.24	11.27	28.81	0
1/5/23 18:00	3.086	155.6	32.18	11.19	28.82	0
1/5/23 18:15	3.694	138.6	20.65	11.12	28.83	0
1/5/23 18:30	4.349	135.3	12.64	11.07	28.84	0
1/5/23 18:45	5.862	173	15.29	11.63	28.84	0
1/5/23 19:00	7.392	189.7	8.62	12.13	28.85	0
1/5/23 19:15	6.534	184.3	10.19	11.93	28.87	0
1/5/23 19:30	4.548	154.6	13.62	11.23	28.88	0
1/5/23 19:45	3.505	153.1	11.03	10.71	28.89	0
1/5/23 20:00	4.322	159.9	13.77	10.79	28.9	0
1/5/23 20:15	5.822	179.3	9.34	11.14	28.91	0
1/5/23 20:30	7.13	181.4	8.81	11.28	28.91	0
1/5/23 20:45	7.07	179.7	9.28	11.32	28.92	0
1/5/23 21:00	7.378	180.7	8.73	11.36	28.93	0
1/5/23 21:15	6.56	182.4	11.41	11.23	28.95	0
1/5/23 21:30	7.79	216.7	13.2	10.46	28.96	0
1/5/23 21:45	7.969	213	7.915	9.26	28.98	0
1/5/23 22:00	8.2	203.9	7.614	8.57	28.99	0
1/5/23 22:15	7.165	192.3	8.99	8.44	29	0
1/5/23 22:30	6.153	192.6	10.11	8.37	29.01	0.01
1/5/23 22:45	6.697	200.2	9.01	8.21	29.02	0.02
1/5/23 23:00	5.19	199.7	11.12	7.955	29.03	0
1/5/23 23:15	1.889	131.6	38.12	7.65	29.04	0
1/5/23 23:30	2.629	113.7	9.87	7.438	29.05	0
1/5/23 23:45	3.794	115.1	8.15	7.888	29.06	0
1/6/23 0:00	3.429	121.2	15.49	8.13	29.06	0
1/6/23 0:15	1.754	171.4	18.42	8.13	29.07	0
1/6/23 0:30	2.165	189.7	37.41	8.27	29.07	0
1/6/23 0:45	3.197	199.5	16.66	8.13	29.08	0
1/6/23 1:00	3.163	212.4	6.654	7.956	29.08	0
1/6/23 1:15	2.752	212	9.34	7.833	29.09	0
1/6/23 1:30	3.658	220	8.96	7.697	29.1	0.01
1/6/23 1:45	2.812	197.2	19.02	7.465	29.11	0
1/6/23 2:00	1.709	149	37.92	7.16	29.12	0.01
1/6/23 2:15	1.344	108	12.17	7	29.13	0
1/6/23 2:30	1.068	97.4	8.96	7.078	29.13	0
1/6/23 2:45	1.414	114.6	14.02	7.26	29.14	0.01
1/6/23 3:00	1.57	136.1	29.25	7.412	29.14	0.02
1/6/23 3:15	0.912	125.2	34.28	7.349	29.14	0
1/6/23 3:30	0.99	120.2	13.85	7.267	29.15	0
1/6/23 3:45	2.117	144.4	15.81	7.205	29.14	0
1/6/23 4:00	3.144	162.2	9.88	6.76	29.15	0
1/6/23 4:15	2.525	138.5	13.49	6.599	29.15	0
1/6/23 4:30	3.007	119.5	10.34	6.386	29.16	0
1/6/23 4:45	3.007	118.3	9.63	6.386	29.16	0
1/6/23 5:00	2.151	128.5	8.06	6.535	29.16	0
1/6/23 5:15	2.199	119	7.637	6.561	29.16	0
1/6/23 5:30	2.474	108.9	9.86	6.431	29.16	0
1/6/23 5:45	2.838	115.1	9.46	6.447	29.16	0
1/6/23 6:00	2.766	122.6	8.14	6.609	29.17	0
1/6/23 6:15	2.39	116.6	11.81	6.664	29.17	0
1/6/23 6:30	2.86	111.9	8.79	6.637	29.16	0
1/6/23 6:45	2.722	124.5	8.81	6.596	29.17	0
1/6/23 7:00	2.493	117.4	7.951	6.673	29.17	0
1/6/23 7:15	1.849	121.3	9.1	6.725	29.17	0
1/6/23 7:30	1.778	146.1	31.91	5.499	29.18	0
1/6/23 7:45	2.058	137.7	25.44	5.263	29.18	0
1/6/23 8:00	2.456	115.1	6.527	5.565	29.18	0
1/6/23 8:15	2.394	140.2	37.61	4.997	29.18	0
1/6/23 8:30	3.152	128.3	13.59	5.738	29.18	0
1/6/23 8:45	2.459	113.5	22.05	5.878	29.18	0
1/6/23 9:00	2.846	106.5	8.02	5.95	29.18	0
1/6/23 9:15	2.4	132.7	12.5	6.649	29.18	0
1/6/23 9:30	2.142	132.3	11.34	6.951	29.17	0
1/6/23 9:45	2.832	129.1	27.96	7.135	29.17	0.01
1/6/23 10:00	2.264	85.4	22.07	6.351	29.16	0
1/6/23 10:15	2.413	142.2	27.25	7.041	29.16	0
1/6/23 10:30	1.326	107.4	21.81	7.8	29.17	0
1/6/23 10:45	1.466	101.9	13.75	7.615	29.16	0
1/6/23 11:00	2.908	105.5	16.24	7.859	29.16	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/6/23 11:15	3.616	105.5	15.82	8.38	29.15	0
1/6/23 11:30	3.495	118.6	14.38	8.65	29.15	0
1/6/23 11:45	3.551	139.8	15.71	8.97	29.15	0
1/6/23 12:00	3.901	134.2	15.24	8.72	29.16	0
1/6/23 12:15	3.521	114.7	9.26	8.45	29.16	0
1/6/23 12:30	3.445	80.8	14.51	7.928	29.15	0
1/6/23 12:45	2.84	91.9	14.9	8.11	29.15	0
1/6/23 13:00	2.856	78.79	16.75	8.52	29.14	0
1/6/23 13:15	3.529	86.6	17.19	9.3	29.13	0
1/6/23 13:30	2.205	87.8	17.32	9.56	29.12	0
1/6/23 13:45	1.744	164.9	27.74	10.13	29.12	0
1/6/23 14:00	2.711	164.1	30.62	9.82	29.12	0
1/6/23 14:15	3.717	105.2	15.81	10.09	29.11	0
1/6/23 14:30	5.451	109.3	10.15	10.47	29.11	0
1/6/23 14:45	5.696	113.1	11.67	10.6	29.1	0
1/6/23 15:00	5.935	115.9	9.98	10.56	29.1	0
1/6/23 15:15	6.289	111.8	11.24	10.62	29.1	0
1/6/23 15:30	7.231	111	11.72	10.67	29.09	0
1/6/23 15:45	7.716	114.6	10.94	10.77	29.08	0
1/6/23 16:00	7.254	111.6	11.97	10.84	29.08	0
1/6/23 16:15	6.236	111.3	10.85	11	29.07	0
1/6/23 16:30	5.572	108.6	13.06	11.1	29.07	0
1/6/23 16:45	5.428	116.3	12.83	10.76	29.07	0
1/6/23 17:00	5.888	104.4	14.45	10.51	29.07	0
1/6/23 17:15	6.33	125.1	11.17	10.36	29.07	0.01
1/6/23 17:30	5.221	120.1	16.76	10.1	29.09	0
1/6/23 17:45	5.818	103.3	11.45	9.48	29.09	0.02
1/6/23 18:00	5.427	97.9	11.06	8.94	29.1	0
1/6/23 18:15	4.858	90.4	14.12	8.99	29.08	0
1/6/23 18:30	4.652	99	15.21	9.53	29.09	0
1/6/23 18:45	4.132	105.6	13.72	9.43	29.09	0.01
1/6/23 19:00	5.521	122.7	15.08	9.48	29.09	0
1/6/23 19:15	8.09	124.7	9.98	9.44	29.09	0
1/6/23 19:30	8.83	122	10.98	9.74	29.09	0
1/6/23 19:45	8.29	117.2	11.62	9.81	29.09	0
1/6/23 20:00	8.44	121.6	10.88	9.81	29.09	0
1/6/23 20:15	5.574	200.3	29.32	9.22	29.11	0
1/6/23 20:30	3.676	212.8	13.56	8.85	29.12	0
1/6/23 20:45	2.678	230.4	9.9	8.48	29.12	0
1/6/23 21:00	3.556	260.6	10.61	8.13	29.13	0
1/6/23 21:15	2.511	256.4	7.698	7.942	29.14	0
1/6/23 21:30	1.581	293.7	24.91	7.628	29.14	0
1/6/23 21:45	1.297	312.4	11.15	7.495	29.15	0
1/6/23 22:00	0.484	320.8	15.73	7.578	29.15	0
1/6/23 22:15	0.946	37.37	33.86	7.442	29.15	0
1/6/23 22:30	0.915	52.08	20.1	7.348	29.15	0
1/6/23 22:45	0.109	60.39	8.57	7.523	29.15	0
1/6/23 23:00	0.335	10.24	2.802	7.692	29.15	0
1/6/23 23:15	0.444	349.8	4.153	7.778	29.15	0
1/6/23 23:30	0.256	354.9	15.92	7.694	29.15	0
1/6/23 23:45	0.097	313.5	27.29	7.646	29.15	0
1/7/23 0:00	0.573	353.6	25.91	7.701	29.15	0
1/7/23 0:15	0.868	1.03	37.33	7.292	29.15	0
1/7/23 0:30	1.049	311	16.41	7.251	29.15	0
1/7/23 0:45	1.087	324.2	14.66	7.539	29.15	0
1/7/23 1:00	1.978	280.1	7.578	6.93	29.15	0
1/7/23 1:15	2.137	289.3	6.237	7.062	29.15	0
1/7/23 1:30	2.181	308.4	7.627	6.946	29.14	0
1/7/23 1:45	1.773	326.6	8.99	6.831	29.14	0
1/7/23 2:00	1.569	323.9	4.811	7.108	29.14	0
1/7/23 2:15	1.497	343.5	24.66	7.3	29.14	0
1/7/23 2:30	1.275	351	15.5	7.201	29.14	0
1/7/23 2:45	1.82	23.69	20.98	6.555	29.13	0
1/7/23 3:00	2.552	34.23	19.2	6.092	29.13	0.01
1/7/23 3:15	2.309	33.06	16.79	6.234	29.13	0.01
1/7/23 3:30	1.894	21.1	10.87	6.294	29.12	0
1/7/23 3:45	1.848	21.93	10.25	5.994	29.12	0
1/7/23 4:00	2.424	18.78	8.89	6.063	29.11	0.01
1/7/23 4:15	1.295	33.38	27.95	6.127	29.11	0
1/7/23 4:30	0.86	78.47	34.22	6.678	29.11	0
1/7/23 4:45	1.201	84.5	35.26	6.733	29.1	0.01
1/7/23 5:00	1.578	89.1	24.16	6.821	29.1	0
1/7/23 5:15	1.582	94.8	24.16	6.637	29.1	0
1/7/23 5:30	1.888	90	22.31	6.715	29.09	0.01
1/7/23 5:45	1.47	68.04	19.71	6.559	29.09	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/7/23 6:00	1.428	47.81	16.13	6.386	29.08	0
1/7/23 6:15	1.173	49.66	31.51	6.274	29.08	0
1/7/23 6:30	1.776	101.4	10.5	6.95	29.07	0
1/7/23 6:45	3.209	98.5	9.6	7.518	29.06	0
1/7/23 7:00	3.082	93	9.5	7.451	29.06	0
1/7/23 7:15	3.035	94.3	14.69	7.139	29.05	0
1/7/23 7:30	4.318	101.5	12.21	7.309	29.05	0
1/7/23 7:45	2.975	92	12.31	7.005	29.05	0
1/7/23 8:00	2.049	86.7	23.58	7.39	29.04	0
1/7/23 8:15	1.204	44.3	15.85	7.322	29.04	0
1/7/23 8:30	1.571	7.115	23.65	7.127	29.03	0
1/7/23 8:45	0.833	25.23	34.95	7.074	29.03	0
1/7/23 9:00	0.699	43.22	32.8	7.514	29.03	0.01
1/7/23 9:15	0.721	50.93	36.7	7.725	29.02	0
1/7/23 9:30	1.398	325.8	20.55	7.044	29.02	0
1/7/23 9:45	1.11	10.17	42.99	7.894	29.01	0
1/7/23 10:00	0.99	44.58	72.32	8.53	29.01	0
1/7/23 10:15	2.653	88.6	22.58	9.27	29.01	0
1/7/23 10:30	2.405	128.3	47.65	9.28	29.01	0
1/7/23 10:45	3.004	227.6	14.57	8.76	29.01	0
1/7/23 11:00	3.468	169.3	25.4	9.06	29.01	0
1/7/23 11:15	3.436	145.4	9.87	9.36	29	0
1/7/23 11:30	2.989	124.3	22.08	9.4	29	0
1/7/23 11:45	2.032	131.5	13.15	9.42	29	0
1/7/23 12:00	0.944	143.5	43.23	9.41	28.99	0
1/7/23 12:15	1.811	277.4	9.38	8.22	28.99	0
1/7/23 12:30	2.108	295.3	12.92	7.791	28.98	0
1/7/23 12:45	1.507	309	10.6	7.653	28.98	0
1/7/23 13:00	1.402	297.4	24.26	7.609	28.98	0
1/7/23 13:15	1.116	182.6	65.36	7.803	28.98	0
1/7/23 13:30	2.109	145.1	18.1	8.17	28.97	0.01
1/7/23 13:45	2.076	108.1	22.43	8.34	28.96	0
1/7/23 14:00	1.803	34.44	20.79	7.68	28.96	0
1/7/23 14:15	1.59	19.45	16.58	7.46	28.95	0.01
1/7/23 14:30	1.776	41.43	11.83	7.464	28.95	0
1/7/23 14:45	1.88	61.06	19.57	7.792	28.94	0
1/7/23 15:00	1.694	47.51	26.03	8	28.94	0
1/7/23 15:15	2.118	28.63	16.25	7.685	28.94	0
1/7/23 15:30	2.114	44.02	22	7.651	28.94	0
1/7/23 15:45	1.558	70.01	26.55	8.18	28.94	0
1/7/23 16:00	2.806	110.7	13.53	8.99	28.94	0
1/7/23 16:15	3.791	109.6	11.57	9.26	28.93	0
1/7/23 16:30	4.813	120.3	9.65	9.44	28.93	0
1/7/23 16:45	4.572	138.7	14.81	9.49	28.94	0
1/7/23 17:00	4.934	141.7	12.37	9.33	28.94	0
1/7/23 17:15	5.473	127.9	9.94	9.28	28.94	0
1/7/23 17:30	6.517	122	10.76	9.29	28.94	0
1/7/23 17:45	5.645	126.2	10.29	9.29	28.94	0
1/7/23 18:00	5.594	123.2	10.17	9.23	28.93	0
1/7/23 18:15	6.002	119.8	10.64	9.31	28.93	0
1/7/23 18:30	6.026	116.3	11.84	9.24	28.93	0
1/7/23 18:45	5.171	117.3	11.05	9.11	28.92	0
1/7/23 19:00	4.49	117.2	10.48	9	28.92	0
1/7/23 19:15	3.802	119.5	10.16	8.81	28.92	0
1/7/23 19:30	3.844	112.1	11.88	8.58	28.92	0
1/7/23 19:45	3.648	113.8	12.21	8.43	28.92	0
1/7/23 20:00	3.699	111.2	11.07	8.28	28.91	0
1/7/23 20:15	3.945	116.8	11.54	8.28	28.91	0
1/7/23 20:30	2.525	98.3	12.8	7.865	28.9	0
1/7/23 20:45	1.985	105	17.07	7.51	28.9	0
1/7/23 21:00	2.074	126.3	9.84	7.7	28.89	0
1/7/23 21:15	2.31	130.3	8.86	7.743	28.89	0
1/7/23 21:30	2.301	119.6	17.86	7.681	28.88	0
1/7/23 21:45	1.966	92	12.28	7.411	28.88	0
1/7/23 22:00	2.678	93.8	11.51	7.312	28.87	0
1/7/23 22:15	2.542	102.7	10.32	7.109	28.86	0
1/7/23 22:30	2.469	122.3	5.885	7.717	28.86	0
1/7/23 22:45	2.365	105.7	13.86	7.931	28.85	0
1/7/23 23:00	3.64	107.5	10.18	8.17	28.85	0
1/7/23 23:15	3.194	95.5	6.873	8.23	28.84	0
1/7/23 23:30	2.901	89	10.54	8.51	28.83	0
1/7/23 23:45	2.667	96.9	8.76	8.65	28.82	0
1/8/23 0:00	2.77	89.5	13.27	8.7	28.81	0
1/8/23 0:15	2.919	88.5	11.01	8.48	28.81	0
1/8/23 0:30	2.263	87.3	11.6	8.32	28.8	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/8/23 0:45	2.073	96.8	10.02	8.71	28.79	0
1/8/23 1:00	1.644	141.7	20.13	8.71	28.79	0
1/8/23 1:15	2.04	157.6	11.37	8.78	28.79	0
1/8/23 1:30	2.017	168.2	14.21	8.81	28.79	0
1/8/23 1:45	2.314	151.9	9.31	8.95	28.78	0
1/8/23 2:00	2.286	134.6	8.39	9.11	28.78	0
1/8/23 2:15	2.88	109.7	10.23	9.14	28.78	0
1/8/23 2:30	3.329	98.4	7.933	8.99	28.78	0
1/8/23 2:45	3.659	101.4	10.07	9.1	28.77	0
1/8/23 3:00	3.615	108.9	11.54	8.99	28.76	0
1/8/23 3:15	5.025	114.5	13.09	9.22	28.76	0
1/8/23 3:30	4.534	112.5	11.81	9.17	28.75	0
1/8/23 3:45	6.065	122.2	9.95	9.5	28.75	0
1/8/23 4:00	6.087	113.4	12.12	9.65	28.75	0
1/8/23 4:15	6.218	114.6	12.45	9.56	28.74	0
1/8/23 4:30	6.423	116.1	11.47	9.57	28.74	0
1/8/23 4:45	5.506	118	11.86	9.64	28.74	0
1/8/23 5:00	6.466	120	10.41	9.63	28.74	0
1/8/23 5:15	6.626	138.3	23.56	9.4	28.74	0
1/8/23 5:30	4.356	157.6	17.82	8.96	28.75	0
1/8/23 5:45	3.765	158	18.61	8.51	28.75	0
1/8/23 6:00	3.674	153.8	11.33	8.01	28.75	0
1/8/23 6:15	4.536	125.2	14.41	8.03	28.75	0.01
1/8/23 6:30	3.392	95.8	9.26	7.601	28.74	0
1/8/23 6:45	2.404	73.5	12.47	7.409	28.73	0
1/8/23 7:00	2.404	47.24	12.87	7.55	28.72	0
1/8/23 7:15	2.588	66.8	13.67	8.1	28.72	0.01
1/8/23 7:30	1.741	58.02	15.69	8.31	28.72	0
1/8/23 7:45	1.516	84.1	36.75	8.55	28.72	0
1/8/23 8:00	2.688	171.1	42.08	8.07	28.73	0
1/8/23 8:15	3.215	155.5	20.52	8.01	28.73	0
1/8/23 8:30	4.264	106.2	19.35	7.876	28.73	0.01
1/8/23 8:45	3.61	99.1	13.96	7.502	28.73	0.01
1/8/23 9:00	3.609	101	17.6	7.985	28.73	0
1/8/23 9:15	2.391	93.2	17.96	7.943	28.74	0
1/8/23 9:30	2.709	122.9	27.59	8.26	28.74	0.01
1/8/23 9:45	2.119	192.7	24.6	7.994	28.75	0
1/8/23 10:00	3.365	173.9	24.37	7.864	28.76	0
1/8/23 10:15	4.09	133.6	11.98	8.35	28.76	0.01
1/8/23 10:30	3.799	147.3	13.44	8.14	28.77	0
1/8/23 10:45	3.673	120.8	12.58	8.04	28.77	0
1/8/23 11:00	4.317	113.1	14.98	7.933	28.78	0.01
1/8/23 11:15	4.335	124.8	13.99	7.726	28.78	0.01
1/8/23 11:30	2.857	92.1	15.13	7.61	28.78	0
1/8/23 11:45	1.868	85.2	20.56	7.54	28.78	0
1/8/23 12:00	1.053	117	73.16	7.364	28.78	0.01
1/8/23 12:15	1.69	133.2	43.55	7.269	28.79	0
1/8/23 12:30	2.058	108.3	28.08	7.375	28.79	0.01
1/8/23 12:45	3.052	173.5	18.02	7.476	28.8	0.01
1/8/23 13:00	3.269	177.6	24.49	7.063	28.82	0.01
1/8/23 13:15	2.666	150.1	10.93	6.952	28.84	0.01
1/8/23 13:30	3.796	146.1	10.95	7.171	28.84	0.01
1/8/23 13:45	4.037	149.8	7.798	7.545	28.85	0
1/8/23 14:00	3.585	143.8	6.189	7.554	28.86	0
1/8/23 14:15	3.032	138.7	6.663	7.619	28.86	0
1/8/23 14:30	2.54	129.3	7.456	7.831	28.86	0
1/8/23 14:45	3.272	139.3	11.18	8.36	28.87	0
1/8/23 15:00	4.121	162	11.64	8.83	28.87	0
1/8/23 15:15	3.661	173.4	7.222	8.65	28.88	0
1/8/23 15:30	2.33	172	13.02	8.46	28.88	0.01
1/8/23 15:45	2.901	159	13.28	8.42	28.89	0
1/8/23 16:00	3.199	158.1	8.89	8.31	28.9	0
1/8/23 16:15	7.37	182.1	10.2	7.811	28.91	0.04
1/8/23 16:30	4.435	187.6	12.5	7.329	28.93	0
1/8/23 16:45	3.987	212.2	13.46	7.117	28.94	0
1/8/23 17:00	2.104	124.9	34.31	6.452	28.94	0
1/8/23 17:15	2.852	125.6	8.34	6.307	28.94	0.01
1/8/23 17:30	3.13	135.1	9.6	6.357	28.95	0
1/8/23 17:45	2.613	122.9	9.27	6.56	28.95	0
1/8/23 18:00	2.57	118.4	8.27	6.629	28.95	0
1/8/23 18:15	3.597	124.4	6.011	6.839	28.95	0
1/8/23 18:30	4.247	135.2	9.3	7.19	28.96	0
1/8/23 18:45	4.74	150.1	8.56	7.381	28.96	0
1/8/23 19:00	4.57	166.1	8.26	7.199	28.97	0
1/8/23 19:15	3.683	161.6	8.12	6.995	28.98	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/8/23 19:30	3.39	139.7	6.218	6.626	28.98	0
1/8/23 19:45	3.107	133.9	7.161	6.516	28.98	0
1/8/23 20:00	3.679	137.3	6.624	6.544	28.98	0
1/8/23 20:15	3.501	124.6	8.27	6.731	28.99	0
1/8/23 20:30	3.507	127.6	9.17	6.885	29	0
1/8/23 20:45	4.292	167.8	20.37	6.74	29.01	0.01
1/8/23 21:00	4.814	142.5	10.99	6.569	29.01	0
1/8/23 21:15	3.827	123	17.44	6.69	29	0.01
1/8/23 21:30	1.95	120.1	14.5	6.556	29	0
1/8/23 21:45	1.637	113	36.5	6.686	29	0
1/8/23 22:00	1.246	91.5	54.63	6.665	29	0
1/8/23 22:15	1.45	98.2	16.23	6.836	29	0
1/8/23 22:30	1.617	101	10.67	6.98	29	0
1/8/23 22:45	2.125	60.64	14.38	6.121	29	0
1/8/23 23:00	1.775	68.35	12.46	5.623	28.99	0
1/8/23 23:15	2.522	27	9.14	5.339	28.99	0
1/8/23 23:30	2.878	27.73	7.889	5.14	28.98	0
1/8/23 23:45	2.521	21.29	8.19	4.868	28.97	0
1/9/23 0:00	2.121	37.14	11.26	4.696	28.97	0
1/9/23 0:15	1.786	110.7	54.83	4.635	28.97	0
1/9/23 0:30	2.072	118.4	13.01	5.008	28.96	0
1/9/23 0:45	2.923	111.8	10.5	5.425	28.96	0
1/9/23 1:00	3.016	103	15.85	5.906	28.95	0
1/9/23 1:15	2.183	140.2	13.39	5.775	28.94	0
1/9/23 1:30	3.011	113.3	13.07	6.361	28.93	0
1/9/23 1:45	5.612	117.3	12.55	7.043	28.92	0
1/9/23 2:00	6.159	117.6	13.82	7.423	28.9	0
1/9/23 2:15	5.715	112.4	10.86	7.376	28.89	0
1/9/23 2:30	3.055	102	19.05	6.862	28.89	0
1/9/23 2:45	5.189	117.8	18.34	7.05	28.9	0
1/9/23 3:00	5.242	102.6	10.97	7.161	28.89	0
1/9/23 3:15	5.534	103.9	11.44	7.572	28.88	0
1/9/23 3:30	4.173	93.1	12.92	7.364	28.86	0
1/9/23 3:45	3.258	73.97	16.07	8.06	28.84	0
1/9/23 4:00	2.838	98.8	21.51	8.22	28.82	0
1/9/23 4:15	4.55	101.9	14.57	8	28.8	0
1/9/23 4:30	4.819	85.9	13.44	8.57	28.77	0
1/9/23 4:45	2.849	60.52	16.03	8.49	28.74	0
1/9/23 5:00	4.232	99.4	15.91	8.8	28.73	0
1/9/23 5:15	4.862	109.9	13.47	9.02	28.71	0
1/9/23 5:30	4.802	114.1	11.28	9.04	28.7	0
1/9/23 5:45	5.719	104.5	15.07	9.08	28.68	0
1/9/23 6:00	6.719	115	14.75	9.41	28.66	0
1/9/23 6:15	7.251	115.1	13.71	9.73	28.64	0
1/9/23 6:30	5.943	104.7	14.39	9.93	28.62	0
1/9/23 6:45	7.141	110.7	16.75	10.17	28.61	0
1/9/23 7:00	10.14	113.6	15.06	10.36	28.59	0
1/9/23 7:15	9.84	113.1	14.95	10.42	28.58	0
1/9/23 7:30	8.12	117.7	15.83	10.43	28.58	0
1/9/23 7:45	9.97	120.5	14.12	10.47	28.58	0
1/9/23 8:00	8.04	121.8	14.78	10.44	28.58	0
1/9/23 8:15	8.6	128.2	16.58	10.39	28.57	0
1/9/23 8:30	9.02	127.2	16.8	10.48	28.57	0
1/9/23 8:45	9.5	121.5	15.73	10.45	28.56	0
1/9/23 9:00	9.48	116.5	16.1	10.24	28.55	0
1/9/23 9:15	11.15	123	14.51	10.27	28.56	0
1/9/23 9:30	11.66	118	13.2	10.19	28.57	0
1/9/23 9:45	10.18	121.4	13.42	10.04	28.57	0
1/9/23 10:00	10.8	120	12.07	10.02	28.57	0
1/9/23 10:15	9.39	118.5	13.89	10.15	28.57	0
1/9/23 10:30	7.318	115.9	14.37	10.3	28.58	0
1/9/23 10:45	6.726	114.6	14.27	10.25	28.59	0
1/9/23 11:00	9.41	118.5	10.13	10.48	28.6	0
1/9/23 11:15	8.69	116.7	12.93	11.12	28.59	0
1/9/23 11:30	9.29	118.6	11.28	11.28	28.6	0
1/9/23 11:45	7.935	122.9	13.11	11.38	28.61	0
1/9/23 12:00	7.575	124.5	10.04	11.31	28.61	0
1/9/23 12:15	7.553	127.8	10.64	11.22	28.62	0
1/9/23 12:30	7.07	127.4	9.4	10.98	28.64	0
1/9/23 12:45	6.248	122.7	9.45	10.87	28.65	0
1/9/23 13:00	5.811	135.4	14.97	11.15	28.65	0
1/9/23 13:15	6.845	119.5	10.59	10.6	28.66	0
1/9/23 13:30	6.19	124.4	13.87	11.08	28.66	0
1/9/23 13:45	4.723	135.4	15.84	11.21	28.67	0
1/9/23 14:00	5.313	150.2	24.43	11.02	28.67	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/9/23 14:15	8.29	210.4	14.36	10.77	28.67	0
1/9/23 14:30	9.04	224.1	9.29	9.31	28.68	0.03
1/9/23 14:45	12.51	212.5	9.31	8.01	28.7	0.07
1/9/23 15:00	6.916	179.8	11.63	6.959	28.74	0.04
1/9/23 15:15	6.761	155.2	7.896	6.905	28.74	0
1/9/23 15:30	5.453	147.4	11.03	6.725	28.75	0
1/9/23 15:45	5.247	130.2	12.79	6.622	28.76	0
1/9/23 16:00	6.559	121.1	8.38	6.559	28.77	0
1/9/23 16:15	5.433	126.2	8.55	6.679	28.77	0
1/9/23 16:30	5.036	127.6	8.5	6.749	28.77	0
1/9/23 16:45	4.815	127.3	8.79	6.657	28.77	0
1/9/23 17:00	4.866	130.8	7.601	6.807	28.78	0
1/9/23 17:15	4.845	125.7	7.835	6.813	28.78	0
1/9/23 17:30	4.538	125.7	7.988	6.969	28.79	0
1/9/23 17:45	4.379	124.6	8.86	7.214	28.78	0
1/9/23 18:00	4.448	125.6	7.887	7.301	28.78	0
1/9/23 18:15	4.555	123.6	7.808	7.308	28.78	0
1/9/23 18:30	4.697	125.9	7.751	7.386	28.78	0
1/9/23 18:45	4.361	126.3	7.989	7.394	28.78	0
1/9/23 19:00	4.35	126.1	8.31	7.556	28.78	0
1/9/23 19:15	4.17	132.2	8.76	7.349	28.78	0
1/9/23 19:30	4.146	138.1	10.52	7.16	28.79	0
1/9/23 19:45	4.558	148	13.62	6.78	28.8	0.01
1/9/23 20:00	4.799	131.7	13.48	6.484	28.81	0.01
1/9/23 20:15	3.542	121.7	10.62	6.43	28.81	0.01
1/9/23 20:30	4.944	113.1	11.93	6.4	28.82	0.01
1/9/23 20:45	5.393	115.9	12.36	6.177	28.83	0.03
1/9/23 21:00	4.421	101	11.23	5.792	28.83	0.03
1/9/23 21:15	4.463	102.6	11.41	5.866	28.84	0.02
1/9/23 21:30	3.548	86.5	14.57	5.886	28.83	0.03
1/9/23 21:45	2.877	56.61	11.07	5.772	28.82	0
1/9/23 22:00	3.276	101	18.07	6.194	28.82	0
1/9/23 22:15	2.709	115.4	17.21	6.441	28.81	0
1/9/23 22:30	2.934	139.3	15.88	6.323	28.82	0.01
1/9/23 22:45	4.289	109	13.67	6.508	28.82	0
1/9/23 23:00	4.438	139.3	13.63	6.719	28.83	0
1/9/23 23:15	5.014	133.7	11.12	6.504	28.83	0
1/9/23 23:30	4.639	126.1	11.37	6.667	28.83	0
1/9/23 23:45	3.959	140.6	10.5	6.585	28.84	0
1/10/23 0:00	3.183	146.5	10.49	6.413	28.84	0
1/10/23 0:15	2.411	138.8	13.68	6.474	28.85	0
1/10/23 0:30	2.241	140.6	22.08	6.494	28.85	0
1/10/23 0:45	2.925	140.2	21.11	6.642	28.85	0
1/10/23 1:00	2.465	115.8	15.61	6.557	28.85	0
1/10/23 1:15	2.684	123.4	11.39	6.768	28.86	0
1/10/23 1:30	3.218	111.9	15.45	6.938	28.86	0
1/10/23 1:45	3.148	111.7	10.65	7.105	28.86	0
1/10/23 2:00	3.139	108.3	10.07	7.197	28.86	0
1/10/23 2:15	2.437	105.6	11.65	7.377	28.86	0
1/10/23 2:30	3.446	104.8	11.36	7.345	28.86	0
1/10/23 2:45	3.499	109.4	10.66	7.655	28.86	0
1/10/23 3:00	2.871	114.2	11.32	7.81	28.87	0
1/10/23 3:15	2.258	134.3	13.3	7.638	28.87	0
1/10/23 3:30	2.429	129.8	21.86	7.446	28.87	0
1/10/23 3:45	2.413	141	20.96	7.52	28.87	0
1/10/23 4:00	2.893	130.7	13.84	7.325	28.87	0
1/10/23 4:15	2.509	129.2	18.61	7.348	28.87	0
1/10/23 4:30	3.592	132.7	11.74	7.416	28.87	0
1/10/23 4:45	5.726	133.8	9.97	7.613	28.87	0
1/10/23 5:00	5.609	125.1	10.73	7.445	28.87	0.01
1/10/23 5:15	4.523	114.9	12.87	7.338	28.87	0
1/10/23 5:30	5.244	121.3	10.76	7.047	28.88	0.01
1/10/23 5:45	2.991	131.6	17.34	7.139	28.87	0.02
1/10/23 6:00	2.47	139.1	8.31	6.683	28.86	0
1/10/23 6:15	2.731	117.9	14.97	6.188	28.86	0
1/10/23 6:30	2.181	104.8	9.65	6.148	28.86	0
1/10/23 6:45	2.124	111.5	10.1	6.131	28.85	0
1/10/23 7:00	1.904	97.2	8.72	6.274	28.84	0
1/10/23 7:15	1.884	111.7	8.06	6.188	28.83	0
1/10/23 7:30	1.509	81.8	11.8	6.035	28.83	0
1/10/23 7:45	2.046	40.43	10.57	5.529	28.82	0
1/10/23 8:00	2.381	45.8	11.25	6.078	28.81	0
1/10/23 8:15	2.267	42.01	8.94	5.652	28.81	0
1/10/23 8:30	1.78	44.17	12.09	5.799	28.81	0
1/10/23 8:45	2.754	41.08	11.99	5.417	28.81	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/10/23 9:00	3.393	35.03	11.28	5.164	28.81	0
1/10/23 9:15	3.067	24.86	11.03	5.433	28.8	0
1/10/23 9:30	2.623	42.33	17.89	5.555	28.8	0
1/10/23 9:45	1.977	54.25	14.8	6.058	28.8	0
1/10/23 10:00	1.818	29.36	10.48	6.63	28.79	0
1/10/23 10:15	1.537	17.06	12.74	7.185	28.79	0
1/10/23 10:30	1.235	9.21	13.43	7.402	28.78	0
1/10/23 10:45	0.759	126.7	57.74	8.85	28.78	0
1/10/23 11:00	1.193	109.1	29.22	9.96	28.78	0
1/10/23 11:15	1.425	84.8	24.31	9.72	28.77	0
1/10/23 11:30	0.992	78.56	68.16	10.41	28.77	0
1/10/23 11:45	1.809	105.3	55.34	11	28.76	0
1/10/23 12:00	2.207	83.2	27.46	11.28	28.76	0
1/10/23 12:15	2.63	95.3	18.33	11.45	28.76	0
1/10/23 12:30	4.13	96.7	15.31	12.27	28.76	0
1/10/23 12:45	4.619	98.1	17.03	12.54	28.75	0
1/10/23 13:00	4.42	96.3	15.98	12.67	28.75	0
1/10/23 13:15	4.732	100.5	15.37	13.03	28.75	0
1/10/23 13:30	5.897	109	16.72	13.23	28.74	0
1/10/23 13:45	5.779	104	20.71	13.35	28.74	0
1/10/23 14:00	5.494	111.8	15.51	13.38	28.74	0
1/10/23 14:15	4.655	98.4	20.17	13.32	28.73	0
1/10/23 14:30	4.04	88.5	28.66	13.28	28.74	0
1/10/23 14:45	5.791	118.2	16.86	12.99	28.75	0
1/10/23 15:00	6.549	116.1	12.77	12.56	28.75	0
1/10/23 15:15	5.622	112.4	15.5	12.35	28.76	0
1/10/23 15:30	4.168	110.6	15.67	12.13	28.77	0
1/10/23 15:45	3.331	90.5	28.14	11.86	28.77	0
1/10/23 16:00	3.842	112.4	17.16	11.79	28.77	0
1/10/23 16:15	4.35	108	21.51	11.45	28.77	0
1/10/23 16:30	5.008	124.5	17.48	11.09	28.77	0
1/10/23 16:45	6.61	115.9	16.72	10.9	28.76	0
1/10/23 17:00	6.85	108.6	14.05	10.69	28.77	0
1/10/23 17:15	6.314	110.4	14.98	10.62	28.77	0
1/10/23 17:30	5.971	94.4	15.81	10.8	28.77	0
1/10/23 17:45	4.473	100.3	19.24	10.69	28.76	0
1/10/23 18:00	3.07	119.9	23.16	10.4	28.77	0
1/10/23 18:15	2.997	120.2	23.02	10	28.76	0
1/10/23 18:30	3.509	112.7	14.98	9.99	28.76	0
1/10/23 18:45	3.892	131.7	13.92	10.05	28.76	0
1/10/23 19:00	4.475	131.8	17.6	9.96	28.76	0
1/10/23 19:15	3.583	150.3	14.3	9.77	28.77	0
1/10/23 19:30	5.834	147.3	11.13	9.74	28.78	0
1/10/23 19:45	5.592	124.7	12.07	9.94	28.79	0
1/10/23 20:00	7.116	123.2	10.3	9.69	28.79	0
1/10/23 20:15	8.61	116	10.64	9.66	28.79	0
1/10/23 20:30	7.574	117.9	10.94	9.5	28.8	0
1/10/23 20:45	7.027	123.5	10.75	9.46	28.8	0
1/10/23 21:00	6.33	118.3	11.9	9.6	28.81	0
1/10/23 21:15	5.357	114.3	14.04	9.73	28.82	0
1/10/23 21:30	4.791	121.6	11.69	9.66	28.83	0
1/10/23 21:45	4.831	129	12.75	9.54	28.84	0
1/10/23 22:00	4.972	121.3	12.26	9.43	28.84	0
1/10/23 22:15	5.762	112.9	13.74	9.56	28.85	0
1/10/23 22:30	4.678	117.9	13.22	9.3	28.86	0
1/10/23 22:45	4.141	118.9	12.3	9.26	28.87	0
1/10/23 23:00	4.643	132.4	10.9	9.18	28.88	0
1/10/23 23:15	4.987	135.2	12.34	9.12	28.89	0
1/10/23 23:30	4.603	122.8	12.75	9.16	28.89	0
1/10/23 23:45	4.962	123.7	10.69	9.16	28.89	0
1/11/23 0:00	5.084	117.6	12.39	9.14	28.89	0
1/11/23 0:15	5.767	121.4	10.58	9.04	28.89	0
1/11/23 0:30	5.721	123.2	10.28	8.96	28.9	0
1/11/23 0:45	4.545	115.9	12.65	8.94	28.9	0
1/11/23 1:00	2.955	106.6	12.42	8.85	28.91	0
1/11/23 1:15	3.747	134.2	10.74	8.68	28.91	0
1/11/23 1:30	4.858	126.4	9.83	8.58	28.91	0
1/11/23 1:45	5.16	126.4	10.77	8.54	28.92	0
1/11/23 2:00	4.946	130	13.13	8.51	28.93	0
1/11/23 2:15	5.267	124.9	12.19	8.6	28.93	0
1/11/23 2:30	4.325	126.2	13.07	8.67	28.94	0
1/11/23 2:45	5.094	141	11.29	8.81	28.95	0
1/11/23 3:00	4.566	139.5	11.02	8.89	28.95	0
1/11/23 3:15	5.506	130.8	11.61	8.83	28.96	0
1/11/23 3:30	4.686	147.3	11.98	8.69	28.98	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/11/23 3:45	3.781	139.8	10.32	8.07	28.99	0.01
1/11/23 4:00	3.465	109.5	18.6	7.57	28.99	0
1/11/23 4:15	3.284	114	14.7	7.16	28.99	0.01
1/11/23 4:30	3.021	104.2	11.19	7.228	29	0
1/11/23 4:45	2.749	109.9	11.26	6.954	29.01	0
1/11/23 5:00	3.095	102	10.61	6.651	29.01	0
1/11/23 5:15	2.924	97.7	10.55	6.721	29	0
1/11/23 5:30	2.301	96.3	15.02	6.717	29	0
1/11/23 5:45	1.866	125.8	23.69	6.986	29.01	0
1/11/23 6:00	2.208	98.5	18.54	6.948	29.02	0
1/11/23 6:15	3.201	117.7	14.19	7.071	29.02	0
1/11/23 6:30	5.172	110	13.38	7.474	29.02	0
1/11/23 6:45	5.526	122.1	12.4	7.685	29.03	0
1/11/23 7:00	4.848	116.8	13.5	7.609	29.03	0
1/11/23 7:15	4.18	133.4	10.14	7.333	29.03	0
1/11/23 7:30	4.101	134.5	11.23	7.149	29.04	0
1/11/23 7:45	4.254	120.6	11.86	7.275	29.04	0
1/11/23 8:00	5.034	121.4	10.32	7.538	29.05	0
1/11/23 8:15	4.7	125.6	10.05	7.684	29.05	0
1/11/23 8:30	4.339	124.4	10.88	7.726	29.05	0
1/11/23 8:45	4.571	122.9	11.68	7.77	29.06	0
1/11/23 9:00	5.424	124.3	10.96	7.828	29.07	0
1/11/23 9:15	5.591	115.8	12.2	7.96	29.07	0
1/11/23 9:30	4.769	128.6	13.65	8.24	29.08	0
1/11/23 9:45	5.039	127	11.11	8.39	29.08	0
1/11/23 10:00	5.511	120.5	12.11	8.48	29.09	0
1/11/23 10:15	5.16	121.6	11.42	8.57	29.09	0
1/11/23 10:30	5.661	114.2	11.74	9.06	29.1	0
1/11/23 10:45	5.536	126.4	10.77	9.1	29.1	0
1/11/23 11:00	5.271	122.5	12.5	9.43	29.1	0
1/11/23 11:15	5.039	117.4	10.89	9.81	29.1	0
1/11/23 11:30	4.969	116.1	11.85	10.39	29.09	0
1/11/23 11:45	4.79	113.9	10.94	10.88	29.08	0
1/11/23 12:00	5.029	99.8	11.27	11.5	29.07	0
1/11/23 12:15	3.464	80.5	21.77	11.92	29.06	0
1/11/23 12:30	3.397	71.28	21.69	11.82	29.05	0
1/11/23 12:45	3.604	89.5	16	12.05	29.06	0
1/11/23 13:00	4.843	106.8	15.17	11.95	29.05	0
1/11/23 13:15	5.137	110.4	13.65	11.9	29.04	0
1/11/23 13:30	5.041	101.9	16.84	11.47	29.03	0
1/11/23 13:45	4.793	113.1	12.38	11.33	29.03	0
1/11/23 14:00	5.222	114.1	12.51	11.37	29.04	0
1/11/23 14:15	4.543	110.7	15.06	11.31	29.03	0
1/11/23 14:30	5.489	115.1	13.39	11.08	29.03	0
1/11/23 14:45	5.45	108.8	13.21	10.89	29.02	0
1/11/23 15:00	5.589	113.6	12.41	10.82	29.02	0
1/11/23 15:15	5.965	117.7	10.66	10.85	29.02	0
1/11/23 15:30	5.815	119.4	12.17	10.85	29.02	0
1/11/23 15:45	7.356	117.8	11.38	10.72	29.01	0
1/11/23 16:00	6.952	116.4	10.14	10.56	29.01	0
1/11/23 16:15	6.984	112.1	11.7	10.59	29	0
1/11/23 16:30	7.412	115.4	12.39	10.66	29.01	0
1/11/23 16:45	6.158	116.6	11.6	10.5	29.02	0
1/11/23 17:00	6.711	115	13.29	10.56	29.02	0
1/11/23 17:15	6.321	119	12.95	10.5	29.03	0
1/11/23 17:30	6.355	119.6	11.83	10.45	29.03	0
1/11/23 17:45	6.477	113.4	14.68	10.45	29.03	0
1/11/23 18:00	7.158	108.9	13.21	10.36	29.03	0
1/11/23 18:15	5.898	109.3	13.28	10.28	29.03	0
1/11/23 18:30	5.783	105.8	15.29	10.49	29.03	0
1/11/23 18:45	5.238	108.6	12.95	10.48	29.02	0
1/11/23 19:00	5.936	112.9	12.41	10.26	29.02	0
1/11/23 19:15	7.536	119.3	11.25	10.14	29.02	0
1/11/23 19:30	7.896	119.1	11.05	10.16	29.02	0
1/11/23 19:45	6.981	124	10.91	10.2	29.03	0
1/11/23 20:00	6.944	117.2	11.96	9.79	29.03	0
1/11/23 20:15	7.737	116.5	13.25	9.28	29.02	0.01
1/11/23 20:30	6.816	108.4	13.07	9.24	29.02	0
1/11/23 20:45	4.76	113.3	13.44	9.35	29.02	0
1/11/23 21:00	5.918	116.1	11.73	9.45	29.02	0
1/11/23 21:15	6.466	114.4	14.39	9.35	29.02	0
1/11/23 21:30	6.286	113	13.12	9.06	29.01	0
1/11/23 21:45	5.587	107.8	13.77	9	29.01	0
1/11/23 22:00	5.203	103.8	13.05	8.75	29.01	0
1/11/23 22:15	5.483	110.9	13.56	8.54	29.01	0.01

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/11/23 22:30	5.461	108	11.22	8.09	29.01	0
1/11/23 22:45	5.149	113	11.1	7.988	29.01	0
1/11/23 23:00	5.756	115.8	12.17	8.02	29.01	0.01
1/11/23 23:15	6.925	121	10.76	7.989	29.01	0
1/11/23 23:30	7.434	119.4	10.84	7.946	29.01	0.01
1/11/23 23:45	6.568	121.6	9.95	8.1	29.01	0.01
1/12/23 0:00	7.827	124	10.47	8.31	29.02	0
1/12/23 0:15	9.05	120.6	10.18	8.23	29.02	0.01
1/12/23 0:30	9.19	117.3	10.5	8.19	29.02	0.01
1/12/23 0:45	8.04	121.8	10.16	8.09	29.01	0.01
1/12/23 1:00	6.693	115.2	11.21	8.05	29.01	0.01
1/12/23 1:15	5.361	112.2	11.32	7.961	29.01	0.01
1/12/23 1:30	6.356	116.7	12.03	7.847	29	0.01
1/12/23 1:45	6.247	115.6	11.57	7.766	29	0
1/12/23 2:00	7.855	121.2	10.42	7.983	29	0.01
1/12/23 2:15	9.89	116.5	11.28	8.07	29	0
1/12/23 2:30	9.56	119.3	10.11	7.907	29	0.01
1/12/23 2:45	9.34	120.5	9.6	7.947	29	0.03
1/12/23 3:00	8.71	119.9	10.67	7.895	29	0
1/12/23 3:15	9.41	121.7	9.38	8.03	29	0.01
1/12/23 3:30	10.07	120.7	9.83	8.16	29	0.01
1/12/23 3:45	10.48	117.4	11.38	8.04	28.99	0
1/12/23 4:00	10.25	121.5	9.52	8.14	28.98	0.01
1/12/23 4:15	9.97	119.1	11.05	8.16	28.97	0.01
1/12/23 4:30	10	119.4	10.64	8.37	28.97	0.01
1/12/23 4:45	10.21	119.6	9.7	8.26	28.98	0.01
1/12/23 5:00	9.33	120.7	10.04	8.44	28.97	0
1/12/23 5:15	9.26	124.9	9.29	8.41	28.97	0.02
1/12/23 5:30	9.89	122.3	9.36	8.3	28.98	0.01
1/12/23 5:45	9.85	118.2	11.14	8.3	28.98	0.01
1/12/23 6:00	9.56	118	10.87	8.11	28.99	0.03
1/12/23 6:15	8.43	118.3	10.38	8.22	29	0.01
1/12/23 6:30	8.21	118.9	10.17	8.28	29.01	0.02
1/12/23 6:45	8.46	121.1	10.26	8.38	29.01	0.01
1/12/23 7:00	8.34	123.4	10.72	8.2	29.02	0.02
1/12/23 7:15	8.32	119.4	8.7	7.971	29.03	0.01
1/12/23 7:30	8.51	120.9	9.74	8.15	29.03	0.01
1/12/23 7:45	8.6	118.9	10.54	8.21	29.04	0
1/12/23 8:00	8.85	120.7	8.78	8.38	29.04	0
1/12/23 8:15	8.16	119.2	10.36	8.41	29.05	0
1/12/23 8:30	8.32	121.3	10.83	8.88	29.04	0.01
1/12/23 8:45	9.26	123.5	10.05	9.12	29.05	0
1/12/23 9:00	9.74	122	10.65	9.31	29.05	0
1/12/23 9:15	9.71	120.3	9.69	9.47	29.05	0
1/12/23 9:30	9.62	122	10.2	9.59	29.06	0
1/12/23 9:45	9.78	122.9	10.09	9.61	29.06	0
1/12/23 10:00	9.55	124	9.88	9.68	29.07	0
1/12/23 10:15	8.83	122.9	10.66	9.76	29.07	0
1/12/23 10:30	8.85	123	10.42	9.78	29.07	0
1/12/23 10:45	8.96	123	9.78	10.09	29.07	0
1/12/23 11:00	8.75	124.3	9.48	10.41	29.07	0
1/12/23 11:15	9.65	122.9	9.76	9.81	29.07	0
1/12/23 11:30	8.54	116.7	11.64	8.68	29.08	0.03
1/12/23 11:45	8.82	119.4	9.92	8.52	29.07	0.02
1/12/23 12:00	7.187	124.3	9.61	8.81	29.07	0.01
1/12/23 12:15	7.496	118.9	9.66	8.86	29.07	0.02
1/12/23 12:30	6.055	118.3	9.28	9.01	29.06	0.02
1/12/23 12:45	5.934	122	10.85	9	29.06	0.01
1/12/23 13:00	6.124	112.1	11.2	9.19	29.05	0.01
1/12/23 13:15	6.036	116	12.67	9.68	29.04	0
1/12/23 13:30	6.735	118.9	10.17	10.16	29.03	0.01
1/12/23 13:45	5.905	119.2	11.21	10.07	29.03	0
1/12/23 14:00	6.484	120.8	11.13	9.78	29.03	0.01
1/12/23 14:15	6.8	118.2	10.94	10.04	29.03	0
1/12/23 14:30	4.811	109.4	14.21	10.09	29.02	0
1/12/23 14:45	6.823	120.7	11.35	10.2	29.02	0
1/12/23 15:00	9.39	122	11.07	10.44	29.02	0
1/12/23 15:15	9.99	123.7	9.45	10.59	29.03	0
1/12/23 15:30	8.66	123.3	10.52	10.88	29.03	0
1/12/23 15:45	8.7	123.2	9.7	11.29	29.03	0
1/12/23 16:00	8.57	124.4	9.8	11.27	29.03	0
1/12/23 16:15	8.57	123.6	9.83	11.38	29.03	0
1/12/23 16:30	8.7	123.2	11.15	11.42	29.04	0
1/12/23 16:45	8.87	121.8	9.85	11.23	29.04	0
1/12/23 17:00	9.54	122.8	9.06	11.17	29.03	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/12/23 17:15	9.58	120.9	9.76	10.82	29.03	0
1/12/23 17:30	8.77	124.2	9.44	10.85	29.03	0
1/12/23 17:45	8.3	125.4	8.97	10.85	29.03	0
1/12/23 18:00	7.712	122.6	10.89	10.65	29.03	0.01
1/12/23 18:15	8.25	125.8	9.04	10.66	29.03	0.01
1/12/23 18:30	10.14	122.7	9.79	10.37	29.04	0.01
1/12/23 18:45	9.07	116.1	12.34	10.23	29.04	0
1/12/23 19:00	6.468	115.8	11.55	10.53	29.04	0
1/12/23 19:15	4.913	110.3	14.7	10.92	29.03	0.01
1/12/23 19:30	2.491	101.4	15.62	10.12	29.03	0
1/12/23 19:45	2.246	80.4	17.69	9.81	29.03	0
1/12/23 20:00	1.623	86	19.12	9.67	29.02	0
1/12/23 20:15	1.525	155.5	44.06	9.86	29.02	0
1/12/23 20:30	4.682	107.8	17.32	10.29	29.02	0
1/12/23 20:45	5.642	116.1	12.9	10.61	29.01	0
1/12/23 21:00	8.32	123.8	10.14	10.59	29	0.01
1/12/23 21:15	9.76	123.2	9.3	10.59	29.01	0
1/12/23 21:30	8.32	126.7	9.38	10.63	29.02	0
1/12/23 21:45	8.1	126.9	10.09	10.97	29.02	0.01
1/12/23 22:00	9.01	122.1	10.5	10.92	29.02	0.01
1/12/23 22:15	7.815	120.9	10.17	10.74	29.02	0.01
1/12/23 22:30	5.921	116.9	10.57	11.01	29.01	0
1/12/23 22:45	3.128	80.1	20.8	10.82	29.01	0.01
1/12/23 23:00	2.442	97.8	19.37	10.54	29	0
1/12/23 23:15	3.963	119.3	42.02	10.21	29	0
1/12/23 23:30	2.033	78.05	14.19	10.36	29	0
1/12/23 23:45	2.462	90.4	20.54	11.06	28.99	0
1/13/23 0:00	2.256	138.9	15.39	11.07	28.98	0
1/13/23 0:15	2.107	145.2	27.67	10.82	28.97	0
1/13/23 0:30	2.63	93.6	18.72	10.85	28.96	0
1/13/23 0:45	2.75	88.3	19.7	11.12	28.95	0
1/13/23 1:00	2.345	102	20.38	11.45	28.94	0
1/13/23 1:15	3.467	116.7	20.52	12.08	28.95	0
1/13/23 1:30	4.863	113.9	12.85	12.55	28.95	0
1/13/23 1:45	2.899	112.7	33.25	12.1	28.95	0
1/13/23 2:00	8.03	126.4	11.33	12.44	28.96	0
1/13/23 2:15	6.751	122.9	12.31	12.47	28.96	0
1/13/23 2:30	3.729	89.1	31.78	11.97	28.96	0
1/13/23 2:45	2.464	51.58	17.22	11.49	28.95	0
1/13/23 3:00	1.251	16.78	45.98	10.57	28.95	0
1/13/23 3:15	2.801	119	20.48	11.54	28.95	0
1/13/23 3:30	5.649	128.4	14.62	12.3	28.95	0
1/13/23 3:45	6.171	143.7	10.41	12.35	28.95	0
1/13/23 4:00	5.34	151.4	11.89	12.24	28.95	0
1/13/23 4:15	4.586	160.7	12.43	12.07	28.95	0
1/13/23 4:30	3.571	174.1	12.42	11.53	28.95	0
1/13/23 4:45	3.075	171	16.01	11.32	28.95	0
1/13/23 5:00	2.859	173.4	20.03	11.36	28.96	0
1/13/23 5:15	2.983	151.7	7.209	11.29	28.96	0
1/13/23 5:30	3.307	142.3	8.1	10.97	28.96	0
1/13/23 5:45	3.306	145.4	11.4	10.54	28.95	0.01
1/13/23 6:00	3.599	141.2	14.44	10.57	28.95	0
1/13/23 6:15	4.6	131.5	11.11	10.71	28.95	0
1/13/23 6:30	4.829	136.6	10.89	10.91	28.95	0
1/13/23 6:45	4.841	126.9	13.22	10.93	28.95	0
1/13/23 7:00	4.239	110.4	15.47	11.08	28.94	0
1/13/23 7:15	2.681	113.4	16.58	10.82	28.94	0
1/13/23 7:30	2.501	128.5	26.38	10.9	28.94	0
1/13/23 7:45	3.464	98	23.13	10.84	28.94	0
1/13/23 8:00	4.402	112.9	15.19	10.87	28.94	0
1/13/23 8:15	3.287	107.7	15.8	10.99	28.94	0
1/13/23 8:30	3.001	110.1	15.44	10.83	28.94	0.01
1/13/23 8:45	2.982	113.3	14.95	10.72	28.94	0
1/13/23 9:00	2.313	127.3	28.67	10.46	28.94	0
1/13/23 9:15	2.753	170.1	23.49	10.32	28.95	0.01
1/13/23 9:30	4.262	140.9	20.77	10.23	28.95	0
1/13/23 9:45	4.207	140.1	25.81	9.85	28.96	0.02
1/13/23 10:00	3.939	141.4	33.93	9.66	28.96	0
1/13/23 10:15	3.853	157	21.23	9.56	28.96	0
1/13/23 10:30	4.106	155	15.09	9.65	28.96	0.01
1/13/23 10:45	3.636	149.1	10.82	9.63	28.96	0
1/13/23 11:00	4.735	143	13.79	9.81	28.95	0
1/13/23 11:15	4.674	141.5	12.19	10.07	28.95	0.01
1/13/23 11:30	4.328	139.1	11.52	9.87	28.94	0.01
1/13/23 11:45	4.14	133.8	10.81	9.91	28.94	0.01

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/13/23 12:00	4.418	135.6	14.04	9.84	28.94	0
1/13/23 12:15	3.337	137.4	13.75	9.81	28.94	0.01
1/13/23 12:30	3.398	134.3	11.8	9.96	28.92	0
1/13/23 12:45	3.411	151.2	20.81	9.87	28.92	0.01
1/13/23 13:00	3.569	129.4	11.46	9.95	28.91	0
1/13/23 13:15	3.149	131	10.55	10.03	28.91	0
1/13/23 13:30	2.35	136.6	12.72	9.83	28.9	0.01
1/13/23 13:45	1.907	146.3	19.91	9.73	28.9	0
1/13/23 14:00	2.33	179	18.9	9.51	28.9	0.01
1/13/23 14:15	3.739	155.4	18.76	9.25	28.9	0.01
1/13/23 14:30	2.87	132	11.5	9.25	28.9	0
1/13/23 14:45	1.477	118.2	19.38	9.31	28.9	0.01
1/13/23 15:00	1.91	146.6	7.678	9.33	28.9	0
1/13/23 15:15	2.008	155.9	11.27	9.29	28.9	0.01
1/13/23 15:30	2.604	131.9	10.66	9.26	28.9	0.01
1/13/23 15:45	3.305	120.4	7.157	9.38	28.9	0
1/13/23 16:00	3.404	125.1	8.26	9.48	28.9	0
1/13/23 16:15	2.279	131.2	11.37	9.51	28.89	0.01
1/13/23 16:30	2.61	142.9	24.45	9.5	28.89	0
1/13/23 16:45	2.711	123.4	9.01	9.46	28.89	0
1/13/23 17:00	2.878	128.1	9.45	9.51	28.89	0.01
1/13/23 17:15	2.674	120.9	17.11	9.27	28.89	0
1/13/23 17:30	2.633	109.9	8.95	9.18	28.88	0
1/13/23 17:45	2.819	114.6	8.72	9.28	28.88	0
1/13/23 18:00	3.02	123.7	20.69	9.44	28.87	0
1/13/23 18:15	2.496	137.3	13.89	9.26	28.87	0
1/13/23 18:30	2.427	142.5	7.085	9.22	28.87	0
1/13/23 18:45	2.983	130	15.6	9.17	28.86	0
1/13/23 19:00	2.272	120.3	14.3	9.06	28.86	0
1/13/23 19:15	2.571	119.9	12.63	9.16	28.86	0
1/13/23 19:30	2.671	119.4	16.02	9.27	28.85	0
1/13/23 19:45	2.862	122.1	13.52	9.27	28.85	0
1/13/23 20:00	2.47	120.5	12.46	9.27	28.85	0
1/13/23 20:15	2.463	117	12.56	9.29	28.85	0
1/13/23 20:30	2.31	139.6	13.78	9.58	28.85	0
1/13/23 20:45	2.195	159.5	11.85	9.25	28.84	0
1/13/23 21:00	1.736	154.9	13.96	8.94	28.84	0
1/13/23 21:15	2.033	159.4	22.28	8.97	28.84	0
1/13/23 21:30	2.853	158.8	27.39	8.73	28.84	0
1/13/23 21:45	2.787	186.1	20.59	8.59	28.85	0
1/13/23 22:00	2.021	180.2	29.96	8.5	28.85	0
1/13/23 22:15	1.69	160.9	17.43	8.39	28.85	0.01
1/13/23 22:30	1.711	177	20.22	8.09	28.86	0
1/13/23 22:45	2.072	155.2	14.1	8.01	28.86	0.01
1/13/23 23:00	2.547	143.2	13.89	7.952	28.86	0.01
1/13/23 23:15	3.296	123.6	7.84	8.16	28.86	0.03
1/13/23 23:30	3.232	119.4	7.608	8.27	28.86	0.01
1/13/23 23:45	3.008	109.9	8.37	8.37	28.85	0.01
1/14/23 0:00	3.429	116.7	9.02	8.59	28.84	0.01
1/14/23 0:15	2.89	129.5	7.912	8.75	28.84	0
1/14/23 0:30	1.9	136.8	18.27	8.95	28.84	0
1/14/23 0:45	1.846	176.9	20.27	8.26	28.84	0
1/14/23 1:00	2.575	148.6	19.42	7.932	28.84	0
1/14/23 1:15	1.892	106.5	10.3	7.897	28.84	0
1/14/23 1:30	2.049	118.3	8.78	8.38	28.84	0
1/14/23 1:45	2.42	128.3	10.17	8.57	28.84	0
1/14/23 2:00	2.657	124.8	7.658	8.74	28.84	0
1/14/23 2:15	2.558	135	8.98	8.74	28.84	0
1/14/23 2:30	2.504	136.5	12.75	8.63	28.85	0
1/14/23 2:45	2.211	135.4	9.81	8.7	28.85	0
1/14/23 3:00	2.28	135.6	8.13	8.62	28.85	0
1/14/23 3:15	1.886	114	13.82	8.67	28.84	0
1/14/23 3:30	2.141	114.2	10.5	8.44	28.84	0
1/14/23 3:45	1.687	140.1	31.86	8.54	28.84	0
1/14/23 4:00	1.314	102.1	42.01	8.67	28.83	0.01
1/14/23 4:15	1.048	64.51	16.42	8.55	28.83	0
1/14/23 4:30	1.07	45.92	9.52	8.15	28.83	0
1/14/23 4:45	1.642	94.4	14.17	7.794	28.82	0
1/14/23 5:00	1.497	76.31	21.7	7.86	28.81	0
1/14/23 5:15	2.207	176.1	32.68	7.601	28.81	0
1/14/23 5:30	1.739	135.2	15.31	7.49	28.8	0
1/14/23 5:45	2.298	133.5	8.76	7.609	28.79	0
1/14/23 6:00	2.648	116.9	10.54	7.749	28.79	0
1/14/23 6:15	2.132	101	12.58	7.451	28.78	0
1/14/23 6:30	1.62	143.1	21.33	7.391	28.77	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/14/23 6:45	2.272	142.2	19.18	7.501	28.77	0
1/14/23 7:00	2.146	121.4	12.13	7.702	28.76	0
1/14/23 7:15	1.181	36.15	24.68	7.112	28.76	0
1/14/23 7:30	1.339	79.13	16.16	7.036	28.75	0
1/14/23 7:45	1.633	92.9	13.99	7.48	28.74	0
1/14/23 8:00	2.161	61.45	12.19	7.484	28.73	0
1/14/23 8:15	2.08	57.23	13.48	7.006	28.72	0
1/14/23 8:30	1.448	41.28	8.81	6.971	28.72	0
1/14/23 8:45	1.003	87.9	40.61	7.434	28.71	0
1/14/23 9:00	1.374	154.5	10.49	8.18	28.71	0
1/14/23 9:15	1.345	104.1	33.72	8.29	28.7	0
1/14/23 9:30	0.833	97	26.67	7.665	28.69	0
1/14/23 9:45	1.152	61.21	21.46	7.446	28.68	0
1/14/23 10:00	1.839	92.8	17.58	8.46	28.68	0
1/14/23 10:15	2.668	90	18.79	9.3	28.67	0
1/14/23 10:30	1.8	83.9	20.63	9.3	28.66	0
1/14/23 10:45	1.153	82.5	39.92	10.06	28.65	0
1/14/23 11:00	1.035	71.55	41.26	10.28	28.64	0
1/14/23 11:15	2.799	81.1	31.38	11.33	28.63	0
1/14/23 11:30	1.512	101	60.9	11.82	28.62	0
1/14/23 11:45	1.861	67.25	28.2	11.65	28.61	0
1/14/23 12:00	2.146	70.34	19.48	12.26	28.59	0
1/14/23 12:15	2.227	50.51	26.23	12.23	28.59	0
1/14/23 12:30	2.691	60.09	20.28	12.34	28.57	0
1/14/23 12:45	3.385	66.95	20.52	12.59	28.56	0
1/14/23 13:00	4.572	94.4	20.06	13.04	28.55	0
1/14/23 13:15	6.249	107.4	15	13.22	28.54	0
1/14/23 13:30	6.914	108.3	14.25	13.35	28.52	0
1/14/23 13:45	8.02	110.1	11.49	13.39	28.51	0
1/14/23 14:00	7.338	114.6	13.87	13.22	28.51	0
1/14/23 14:15	6.21	102.3	15.68	13.14	28.51	0
1/14/23 14:30	6.364	104.3	15.29	13.02	28.5	0
1/14/23 14:45	5.965	97.4	17.57	12.98	28.5	0
1/14/23 15:00	5.428	97.9	15.4	12.92	28.49	0
1/14/23 15:15	5.804	97.9	16.22	12.61	28.49	0
1/14/23 15:30	5.611	98.8	14.4	12.42	28.49	0
1/14/23 15:45	5.327	97.8	16.01	12.27	28.49	0
1/14/23 16:00	5.898	105.1	12.66	12.19	28.49	0
1/14/23 16:15	6.391	107.1	15.56	12.21	28.49	0
1/14/23 16:30	5.273	110.8	15.22	12.12	28.49	0
1/14/23 16:45	5.514	118.1	12.21	12.17	28.49	0
1/14/23 17:00	5.26	113.6	13.13	12.13	28.48	0
1/14/23 17:15	6.15	115.8	13.01	12.13	28.48	0
1/14/23 17:30	5.403	130	12.93	12.02	28.48	0
1/14/23 17:45	6.701	121.1	12.89	12.06	28.48	0
1/14/23 18:00	6.295	121.5	12.52	12.06	28.48	0
1/14/23 18:15	4.205	118.3	13.9	11.95	28.49	0
1/14/23 18:30	4.491	125	9.52	11.76	28.49	0
1/14/23 18:45	5.232	123.3	12.31	11.78	28.49	0
1/14/23 19:00	5.659	126.6	10.78	11.55	28.49	0
1/14/23 19:15	6.928	122.9	10.59	11.51	28.48	0
1/14/23 19:30	7.216	130.2	10.02	11.45	28.48	0
1/14/23 19:45	6.83	130.7	11.33	11.32	28.48	0
1/14/23 20:00	7.095	125.1	11.5	11.29	28.48	0
1/14/23 20:15	7.281	123.1	8.93	11.44	28.48	0
1/14/23 20:30	8.1	125.2	9.47	11.45	28.48	0
1/14/23 20:45	9.43	119	11.28	11.57	28.48	0
1/14/23 21:00	8.36	120.3	12.34	11.6	28.49	0
1/14/23 21:15	6.842	134.3	11.95	11.57	28.49	0
1/14/23 21:30	4.008	163.9	21.23	11.23	28.5	0
1/14/23 21:45	3.921	162.1	8.94	10.57	28.51	0
1/14/23 22:00	3.708	160.2	13.05	10.02	28.52	0
1/14/23 22:15	3.935	182.7	6.869	9.45	28.52	0.01
1/14/23 22:30	4.616	175.3	18.25	8.91	28.53	0.01
1/14/23 22:45	4.289	106.6	40.99	8.26	28.53	0.02
1/14/23 23:00	3.288	48.01	11.08	7.725	28.51	0
1/14/23 23:15	3.331	56.95	17.42	8.59	28.51	0
1/14/23 23:30	2.297	71.37	15.6	9.14	28.5	0
1/14/23 23:45	1.996	89.7	18	9.26	28.51	0
1/15/23 0:00	2.079	157.1	32.5	8.32	28.51	0
1/15/23 0:15	2.337	167.6	52.21	8.57	28.51	0
1/15/23 0:30	3.038	155.8	38.29	8.22	28.51	0
1/15/23 0:45	2.155	85.4	26.38	8.69	28.51	0
1/15/23 1:00	2.342	51.43	12.3	7.811	28.5	0
1/15/23 1:15	2.28	80.1	8.45	8.5	28.49	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/15/23 1:30	2.906	82.2	13.01	8.99	28.48	0
1/15/23 1:45	2.513	89.9	13	9.18	28.48	0
1/15/23 2:00	2.226	107.4	18	9.11	28.48	0
1/15/23 2:15	2.189	129.7	25.2	8.84	28.48	0
1/15/23 2:30	1.915	118	26.87	8.31	28.48	0
1/15/23 2:45	1.835	103.9	32.38	8.2	28.48	0
1/15/23 3:00	1.439	113.4	48.92	7.83	28.48	0
1/15/23 3:15	1.974	140.6	16.64	8.25	28.47	0
1/15/23 3:30	1.646	159.9	20.53	8.32	28.47	0
1/15/23 3:45	1.435	143.9	25.11	8.39	28.46	0
1/15/23 4:00	1.908	127.5	22.14	8.36	28.46	0
1/15/23 4:15	2.874	182	13.68	7.918	28.46	0
1/15/23 4:30	2.805	149.8	12.67	8.09	28.46	0
1/15/23 4:45	2.71	150.9	10.86	8.23	28.46	0
1/15/23 5:00	3.357	146.3	10.36	8.18	28.46	0
1/15/23 5:15	2.881	142.6	10.01	8.39	28.46	0
1/15/23 5:30	2.695	118.6	15.46	8.37	28.46	0
1/15/23 5:45	2.508	128.8	13.39	8.37	28.46	0
1/15/23 6:00	3.079	142.6	12.95	8.62	28.47	0
1/15/23 6:15	3.758	143.4	9.38	8.75	28.47	0
1/15/23 6:30	3.588	134.3	10.28	9.06	28.46	0
1/15/23 6:45	2.924	125.2	19.75	8.93	28.47	0
1/15/23 7:00	2.054	151.6	32.08	8.5	28.47	0
1/15/23 7:15	4.046	190.6	8.27	8.47	28.48	0
1/15/23 7:30	2.978	225.6	12.13	8.13	28.48	0
1/15/23 7:45	2.437	258.7	12.56	7.626	28.49	0
1/15/23 8:00	2.519	314.5	22.32	7.291	28.48	0
1/15/23 8:15	2.031	16.17	14.48	7.078	28.48	0
1/15/23 8:30	2.505	35.83	6.308	7.468	28.48	0
1/15/23 8:45	2.207	29.46	9.36	7.013	28.49	0
1/15/23 9:00	1.83	35.26	12.88	7.666	28.49	0
1/15/23 9:15	1.604	62.98	21.18	8.08	28.49	0
1/15/23 9:30	2.114	121.3	21.08	8.96	28.49	0
1/15/23 9:45	3.18	166.2	13.47	8.85	28.5	0
1/15/23 10:00	3.15	241.6	34.44	7.995	28.5	0
1/15/23 10:15	3.589	283.8	8.59	6.937	28.5	0
1/15/23 10:30	3.192	305.6	7.898	6.786	28.5	0
1/15/23 10:45	2.235	294.6	12.74	7.236	28.5	0
1/15/23 11:00	1.818	284.4	10.91	8.24	28.51	0
1/15/23 11:15	2.386	252.3	15	8.36	28.51	0
1/15/23 11:30	3.179	246.5	7.848	8.04	28.52	0
1/15/23 11:45	2.828	273.5	18.76	7.582	28.52	0
1/15/23 12:00	2.008	17.98	22.01	7.53	28.52	0
1/15/23 12:15	1.695	43.81	11.71	7.669	28.52	0
1/15/23 12:30	2.422	171.2	75.76	7.873	28.53	0
1/15/23 12:45	3.043	239.5	16	7.475	28.53	0
1/15/23 13:00	1.448	14.86	39.12	7.385	28.53	0.01
1/15/23 13:15	1.146	20.31	9	7.256	28.53	0
1/15/23 13:30	0.925	40	8.54	7.283	28.53	0
1/15/23 13:45	1.244	238.1	13.03	7.431	28.53	0.01
1/15/23 14:00	2.033	211.9	6.864	7.4	28.54	0.02
1/15/23 14:15	2.004	182.4	27.49	7.321	28.54	0.01
1/15/23 14:30	1.087	56.92	9.72	7.395	28.54	0.01
1/15/23 14:45	1.624	67.86	23.6	7.356	28.54	0
1/15/23 15:00	1.598	112.6	18.45	7.269	28.55	0.01
1/15/23 15:15	3.09	137.5	9.34	7.463	28.55	0
1/15/23 15:30	3.56	113.7	17.88	7.35	28.55	0.01
1/15/23 15:45	3.667	120.7	13.45	7.232	28.56	0
1/15/23 16:00	4.166	138.9	12.33	7.15	28.56	0.01
1/15/23 16:15	3.607	142	19.57	6.883	28.58	0.02
1/15/23 16:30	3.887	124.1	8.17	6.726	28.58	0
1/15/23 16:45	4.14	120.4	8.93	6.571	28.58	0.01
1/15/23 17:00	5.039	115.5	9.28	6.506	28.58	0
1/15/23 17:15	5.399	119.6	10.21	6.595	28.59	0
1/15/23 17:30	5.734	120.8	11.71	6.651	28.59	0.01
1/15/23 17:45	5.797	121.4	9.75	6.601	28.6	0
1/15/23 18:00	4.727	125.8	9.35	6.423	28.61	0.01
1/15/23 18:15	3.635	132	10.11	6.201	28.62	0.01
1/15/23 18:30	3.647	136.6	9.87	6.073	28.63	0.01
1/15/23 18:45	3.743	137.1	8.09	5.893	28.64	0
1/15/23 19:00	3.448	135.6	7.588	5.833	28.64	0.01
1/15/23 19:15	3.392	130.3	9.75	5.758	28.65	0.03
1/15/23 19:30	4.067	117.3	8.75	5.798	28.65	0.01
1/15/23 19:45	4.01	118.3	9.67	5.856	28.66	0.02
1/15/23 20:00	3.991	132.2	9.74	5.808	28.67	0.01

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/15/23 20:15	4.212	129.4	9.61	5.728	28.67	0.01
1/15/23 20:30	5.693	139.8	9.46	5.755	28.68	0.01
1/15/23 20:45	5.936	146.1	9.35	5.707	28.69	0.02
1/15/23 21:00	5.138	150.2	7.281	5.698	28.7	0.01
1/15/23 21:15	4.868	150.3	6.905	5.696	28.7	0
1/15/23 21:30	5.129	152.8	7.923	5.783	28.71	0
1/15/23 21:45	4.165	149	7.345	5.724	28.72	0
1/15/23 22:00	4.036	150.8	7.093	5.762	28.72	0
1/15/23 22:15	3.943	149.9	9.01	5.806	28.73	0
1/15/23 22:30	2.766	137	7.804	5.657	28.73	0
1/15/23 22:45	3.181	140	6.854	5.689	28.74	0
1/15/23 23:00	3.507	142.3	8.56	5.77	28.75	0.01
1/15/23 23:15	3.907	147.2	7.328	5.967	28.75	0
1/15/23 23:30	3.61	147.1	7.388	5.989	28.76	0
1/15/23 23:45	3.419	144.4	6.619	5.96	28.76	0
1/16/23 0:00	4.119	146.7	6.469	6.112	28.77	0
1/16/23 0:15	4.309	153.5	7.976	6.33	28.77	0
1/16/23 0:30	3.136	142.3	5.99	6.007	28.77	0
1/16/23 0:45	2.997	142.2	7.085	6.056	28.78	0
1/16/23 1:00	3.781	147.4	4.613	6.308	28.78	0
1/16/23 1:15	3.806	143.2	5.558	6.253	28.78	0
1/16/23 1:30	3.754	149.3	6.749	6.438	28.79	0
1/16/23 1:45	3.189	152.1	8.12	6.319	28.79	0
1/16/23 2:00	3.154	165.2	8.89	6.504	28.79	0
1/16/23 2:15	3.527	166.8	7.071	6.753	28.8	0
1/16/23 2:30	2.107	127.8	13.94	6.208	28.8	0
1/16/23 2:45	3.098	130.7	11.16	6.554	28.81	0
1/16/23 3:00	3.281	156.7	10.77	6.54	28.81	0
1/16/23 3:15	2.375	158.7	9.16	6.489	28.82	0
1/16/23 3:30	2.792	153	7.03	6.502	28.82	0
1/16/23 3:45	3.164	154.7	8.14	6.336	28.82	0
1/16/23 4:00	2.984	168.8	10.41	6.279	28.82	0
1/16/23 4:15	2.576	165	13.68	6.288	28.83	0
1/16/23 4:30	2.024	161	16.91	5.985	28.83	0
1/16/23 4:45	2.087	157.1	10.43	5.892	28.83	0
1/16/23 5:00	1.413	132.1	16.47	5.759	28.83	0
1/16/23 5:15	2.074	123.4	7.555	5.871	28.84	0
1/16/23 5:30	2.173	139.8	8.61	6.065	28.84	0
1/16/23 5:45	2.517	154.7	8.47	6.03	28.84	0
1/16/23 6:00	2.336	162.9	10.04	5.541	28.84	0
1/16/23 6:15	2.181	151.3	8.9	5.336	28.85	0
1/16/23 6:30	2.587	139.7	5.886	5.428	28.85	0
1/16/23 6:45	2.791	146.2	7.751	5.474	28.85	0
1/16/23 7:00	2.061	152.5	13.97	5.33	28.85	0
1/16/23 7:15	1.513	143.3	7.981	5.358	28.86	0
1/16/23 7:30	1.843	142.3	6.764	5.426	28.86	0
1/16/23 7:45	2.057	163.2	14.19	5.352	28.86	0
1/16/23 8:00	1.609	173.4	19.54	5.1	28.87	0
1/16/23 8:15	1.433	132.1	17.37	5.284	28.88	0
1/16/23 8:30	1.193	136.9	21.18	5.361	28.88	0
1/16/23 8:45	1.181	155.6	14.15	5.685	28.89	0
1/16/23 9:00	1.323	155.8	10.58	5.869	28.89	0
1/16/23 9:15	1.549	154.6	9.73	5.822	28.9	0
1/16/23 9:30	1.665	164.3	9.6	5.912	28.9	0
1/16/23 9:45	1.605	168.4	14.48	6.086	28.91	0
1/16/23 10:00	1.658	170.8	10.36	6.206	28.91	0
1/16/23 10:15	1.41	163.4	14.4	6.369	28.92	0
1/16/23 10:30	2.347	181.5	12.33	6.607	28.92	0
1/16/23 10:45	2.133	178.5	11.27	6.545	28.92	0
1/16/23 11:00	2.165	161.1	15.54	6.762	28.92	0
1/16/23 11:15	2.488	171.9	14.67	7.175	28.92	0
1/16/23 11:30	2.828	173.4	8.89	7.032	28.92	0
1/16/23 11:45	2.126	170.3	20.34	7.385	28.92	0
1/16/23 12:00	1.853	183.7	18.42	7.951	28.92	0
1/16/23 12:15	2.661	170.4	18.06	8.18	28.92	0
1/16/23 12:30	3.289	178.1	22.9	8.09	28.91	0
1/16/23 12:45	3.778	173.4	21.28	8.29	28.91	0
1/16/23 13:00	4.119	194.7	14.18	8.21	28.91	0
1/16/23 13:15	4.369	204	11.17	8.42	28.91	0
1/16/23 13:30	3.651	212.7	12.73	8.46	28.91	0
1/16/23 13:45	3.499	199.9	9.79	8.66	28.91	0
1/16/23 14:00	3.252	191.5	11.37	8.59	28.91	0
1/16/23 14:15	3.634	186.6	15.95	8.68	28.91	0
1/16/23 14:30	3.038	188.8	12.69	8.53	28.91	0
1/16/23 14:45	2.257	189.6	14.91	8.54	28.92	0

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/16/23 15:00	3.246	229.3	28.49	8.29	28.92	0
1/16/23 15:15	2.769	249.1	11.28	7.896	28.93	0
1/16/23 15:30	1.577	253	15.24	7.956	28.93	0
1/16/23 15:45	1.216	245.6	16.92	8.14	28.94	0
1/16/23 16:00	1.658	218.6	16.23	8.3	28.94	0
1/16/23 16:15	2.74	219.6	9.35	8.11	28.94	0
1/16/23 16:30	2.393	199.9	9.85	7.576	28.95	0
1/16/23 16:45	2.827	201	6.529	7.174	28.95	0
1/16/23 17:00	2.086	212.3	6.927	6.894	28.95	0
1/16/23 17:15	1.529	210.6	5.729	6.734	28.96	0
1/16/23 17:30	1.247	177.7	10.04	6.709	28.96	0
1/16/23 17:45	1.311	167.4	10.44	6.496	28.97	0
1/16/23 18:00	1.336	149.6	9.54	6.421	28.97	0
1/16/23 18:15	1.176	165.1	13.28	6.199	28.97	0
1/16/23 18:30	1.65	160.5	17.88	5.842	28.98	0
1/16/23 18:45	2.03	146.2	14.08	5.424	28.98	0
1/16/23 19:00	1.951	161.2	7.244	6.226	28.99	0
1/16/23 19:15	1.824	162.3	9.13	6.199	28.99	0
1/16/23 19:30	1.983	144.3	7.509	5.881	28.99	0
1/16/23 19:45	2.503	143.5	5.926	5.675	28.99	0
1/16/23 20:00	2.218	141.9	7.514	5.695	28.99	0
1/16/23 20:15	2.001	144.8	11.38	5.937	29	0
1/16/23 20:30	2.13	147.2	11.46	5.812	29	0
1/16/23 20:45	2.112	137.2	7.787	5.857	29	0
1/16/23 21:00	1.738	134.7	6.01	5.818	29.01	0
1/16/23 21:15	1.943	138.7	8.55	6.035	29.01	0
1/16/23 21:30	1.737	151.9	11.63	5.873	29.01	0
1/16/23 21:45	1.37	144	13.45	5.961	29.01	0
1/16/23 22:00	1.791	138.6	8.22	5.735	29.01	0
1/16/23 22:15	1.663	150.8	11.74	5.639	29.01	0
1/16/23 22:30	1.799	161	12.24	5.39	29.02	0
1/16/23 22:45	1.745	151.9	9.38	5.352	29.02	0
1/16/23 23:00	1.284	140.2	11.76	5.383	29.02	0
1/16/23 23:15	1.47	145.9	7.391	5.693	29.03	0
1/16/23 23:30	1.558	151.4	8.5	6.027	29.03	0
1/16/23 23:45	1.405	162.7	16.18	6.057	29.03	0
1/17/23 0:00	0.962	149	16.05	6.081	29.03	0
1/17/23 0:15	0.929	146.2	18.11	6.091	29.03	0
1/17/23 0:30	0.282	140.5	7.937	6.049	29.03	0
1/17/23 0:45	1.101	161.5	8.85	5.981	29.04	0
1/17/23 1:00	0.87	137.6	7.328	5.826	29.04	0
1/17/23 1:15	0.339	125.4	31.67	5.758	29.04	0
1/17/23 1:30	0.448	82.5	10.9	5.677	29.04	0
1/17/23 1:45	0.485	105.1	17.56	5.72	29.04	0
1/17/23 2:00	0.931	159.2	25.58	5.607	29.05	0
1/17/23 2:15	0.765	163.4	34.14	5.552	29.05	0
1/17/23 2:30	1.157	155.7	18.68	5.287	29.05	0
1/17/23 2:45	1.293	159.1	21.97	5.199	29.06	0
1/17/23 3:00	1.472	189.4	15.39	5.015	29.06	0
1/17/23 3:15	2.206	199.7	9.24	4.655	29.06	0
1/17/23 3:30	2.56	193.9	8.72	4.614	29.06	0
1/17/23 3:45	2.204	143.7	17.35	4.621	29.06	0
1/17/23 4:00	2.036	192.3	17.06	4.628	29.07	0
1/17/23 4:15	1.824	180.8	11.46	4.67	29.07	0
1/17/23 4:30	1.74	169.3	13.4	4.611	29.08	0
1/17/23 4:45	1.67	152.6	17.35	4.603	29.08	0.02
1/17/23 5:00	1.037	125.1	30.61	4.611	29.08	0.02
1/17/23 5:15	1.617	154.6	15.53	4.282	29.09	0.01
1/17/23 5:30	2.285	152.5	12.46	4.089	29.09	0.01
1/17/23 5:45	1.993	132.4	6.321	3.961	29.09	0.02
1/17/23 6:00	2.295	137.3	8.85	3.94	29.09	0.01
1/17/23 6:15	2.269	139.3	8.26	3.93	29.09	0.02
1/17/23 6:30	2.817	131.5	9.45	4.016	29.09	0
1/17/23 6:45	3.076	133.2	9.1	4.05	29.09	0.01
1/17/23 7:00	3.227	134.4	9.25	4.063	29.1	0
1/17/23 7:15	2.874	141.8	16.01	4.091	29.1	0.01
1/17/23 7:30	3.084	143.8	10.77	4.132	29.1	0.01
1/17/23 7:45	3.13	144.4	7.902	4.19	29.11	0
1/17/23 8:00	3.039	140	9.09	4.245	29.11	0
1/17/23 8:15	2.716	163.5	20.04	4.334	29.12	0
1/17/23 8:30	3.062	159.9	11.78	4.537	29.12	0
1/17/23 8:45	3.185	142	6.645	4.56	29.12	0
1/17/23 9:00	2.294	143.7	8.08	4.7	29.13	0
1/17/23 9:15	1.767	137.8	9.19	4.801	29.13	0
1/17/23 9:30	1.688	126.9	9.64	5.023	29.14	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/17/23 9:45	1.797	135.2	11.34	5.304	29.14	0
1/17/23 10:00	2.262	138.5	9.33	5.573	29.14	0
1/17/23 10:15	2.1	133.1	9.66	5.896	29.14	0
1/17/23 10:30	2.184	138.7	9.9	6.246	29.15	0
1/17/23 10:45	2.817	152.9	16.28	6.295	29.14	0
1/17/23 11:00	2.675	139.6	10.42	6.481	29.15	0
1/17/23 11:15	2.802	127.8	13.71	6.518	29.14	0
1/17/23 11:30	2.979	134	11.19	6.753	29.14	0
1/17/23 11:45	2.847	135.4	11.54	6.771	29.14	0
1/17/23 12:00	2.86	135.9	10.41	6.897	29.13	0
1/17/23 12:15	2.765	135.1	9.86	7.318	29.13	0
1/17/23 12:30	3.027	140	11.01	7.372	29.13	0
1/17/23 12:45	2.983	139.9	11.75	7.407	29.13	0
1/17/23 13:00	3.202	157.9	15.01	7.544	29.13	0
1/17/23 13:15	3.053	173.2	17.26	7.644	29.13	0
1/17/23 13:30	3.06	141.9	10.04	7.696	29.12	0
1/17/23 13:45	3.32	150.7	15.83	7.714	29.12	0
1/17/23 14:00	2.593	153.1	16.54	7.867	29.12	0
1/17/23 14:15	2.471	191.1	22.42	7.655	29.12	0
1/17/23 14:30	2.066	197.2	9.6	7.61	29.12	0
1/17/23 14:45	2.068	184.7	11.12	7.554	29.12	0
1/17/23 15:00	2.289	166.1	9.65	7.624	29.13	0
1/17/23 15:15	1.71	140.8	10.16	7.528	29.12	0
1/17/23 15:30	1.84	136.2	11.27	7.525	29.12	0
1/17/23 15:45	1.855	136.9	8.97	7.47	29.12	0
1/17/23 16:00	1.932	132.1	6.767	7.356	29.12	0
1/17/23 16:15	2.279	140.4	10.11	7.226	29.12	0
1/17/23 16:30	1.472	183.3	12.8	7.237	29.11	0
1/17/23 16:45	1.22	154.8	17.44	7.091	29.11	0
1/17/23 17:00	1.412	134.4	13.35	6.951	29.11	0
1/17/23 17:15	1.861	125.9	6.449	6.869	29.11	0
1/17/23 17:30	2.211	130.6	7.984	6.878	29.11	0
1/17/23 17:45	2.731	131.6	13.04	6.933	29.11	0
1/17/23 18:00	2.72	117.2	8.97	6.828	29.1	0
1/17/23 18:15	2.536	117.1	14.57	6.706	29.1	0.01
1/17/23 18:30	3.169	145.2	12.22	6.656	29.1	0
1/17/23 18:45	3.238	145.2	12.05	6.592	29.1	0
1/17/23 19:00	3.475	134	7.977	6.654	29.1	0
1/17/23 19:15	3.309	143.9	5.64	6.493	29.1	0
1/17/23 19:30	3.315	149.7	5.497	6.369	29.1	0.01
1/17/23 19:45	3.046	138.3	9.61	6.111	29.1	0
1/17/23 20:00	3.155	128.8	8.94	5.833	29.1	0.01
1/17/23 20:15	3.699	120.8	8.18	5.765	29.1	0
1/17/23 20:30	3.823	116.8	9.15	5.681	29.09	0
1/17/23 20:45	3.629	117	9.53	5.681	29.09	0.01
1/17/23 21:00	4.061	119.3	9.73	5.647	29.09	0.01
1/17/23 21:15	4.406	119.1	10.19	5.611	29.09	0
1/17/23 21:30	4.816	119.1	8.73	5.755	29.09	0.01
1/17/23 21:45	4.917	118.5	9.65	5.872	29.09	0.01
1/17/23 22:00	4.893	121	9.01	5.957	29.09	0
1/17/23 22:15	4.617	121.7	9.37	6.02	29.09	0.01
1/17/23 22:30	4.526	117.9	9.2	6.019	29.08	0
1/17/23 22:45	4.78	117.9	8.71	6.032	29.08	0
1/17/23 23:00	5.034	118.5	10.76	6.013	29.08	0
1/17/23 23:15	5.336	119.2	9.37	6.092	29.07	0
1/17/23 23:30	4.976	117.5	9.01	6.138	29.07	0
1/17/23 23:45	4.398	122.8	9.08	6.225	29.06	0
1/18/23 0:00	4.766	126	8.9	6.308	29.06	0
1/18/23 0:15	3.696	135	9.05	6.246	29.05	0
1/18/23 0:30	3.608	147.1	11.33	6.131	29.05	0
1/18/23 0:45	3.583	141.6	10.85	6.098	29.05	0
1/18/23 1:00	3.103	146.1	12.07	6.102	29.05	0
1/18/23 1:15	3.578	139.1	10.98	6.123	29.05	0
1/18/23 1:30	3.936	135.6	9.36	6.291	29.05	0
1/18/23 1:45	3.833	132.6	10.42	6.337	29.04	0
1/18/23 2:00	3.49	139.2	10.87	6.317	29.04	0
1/18/23 2:15	4.235	129.4	9.73	6.462	29.04	0
1/18/23 2:30	4.803	122.9	7.681	6.645	29.04	0
1/18/23 2:45	4.329	127	9.16	6.759	29.04	0
1/18/23 3:00	4.55	123.4	8.32	6.783	29.03	0
1/18/23 3:15	4.999	126.1	8.43	6.827	29.01	0
1/18/23 3:30	5.134	128.7	8.46	6.87	29.01	0
1/18/23 3:45	4.991	129.8	11.44	6.565	29	0
1/18/23 4:00	6.509	122.4	11.04	6.694	28.99	0
1/18/23 4:15	6.966	126.3	13.49	6.89	28.98	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/18/23 4:30	6.537	120.9	11.27	6.766	28.97	0.01
1/18/23 4:45	6.569	114.4	10.42	6.616	28.96	0
1/18/23 5:00	5.659	114.2	9.84	6.81	28.95	0
1/18/23 5:15	5.809	119.9	15.21	7.113	28.94	0
1/18/23 5:30	5.771	119	14.7	7.066	28.94	0.01
1/18/23 5:45	6.428	122.8	8.76	7.19	28.93	0
1/18/23 6:00	6.513	125.5	11.62	7.287	28.93	0
1/18/23 6:15	7.015	129.5	10.7	6.616	28.92	0
1/18/23 6:30	6.935	122.1	9.69	6.846	28.91	0.01
1/18/23 6:45	7.239	121.8	10.72	6.778	28.91	0
1/18/23 7:00	6.15	123.5	10.03	6.918	28.92	0.01
1/18/23 7:15	6.495	126.6	11.96	6.838	28.92	0
1/18/23 7:30	5.748	130.7	9.08	6.599	28.92	0
1/18/23 7:45	4.733	143.8	9.81	6.529	28.93	0
1/18/23 8:00	4.167	156.2	22.66	6.388	28.93	0
1/18/23 8:15	2.996	176.7	31.12	6.061	28.94	0
1/18/23 8:30	2.784	165.8	29.65	6.043	28.95	0
1/18/23 8:45	2.127	157.3	27.96	6.266	28.96	0
1/18/23 9:00	1.706	172.7	21.74	6.276	28.96	0
1/18/23 9:15	1.623	151.6	26.14	6.202	28.97	0.01
1/18/23 9:30	1.481	161.8	20.39	6.322	28.97	0
1/18/23 9:45	2.312	161.8	11.32	6.192	28.97	0
1/18/23 10:00	1.981	184.6	10.97	5.916	28.98	0.01
1/18/23 10:15	2.321	198.9	9.74	5.818	28.99	0.01
1/18/23 10:30	2.177	197.2	10.85	5.586	29	0.02
1/18/23 10:45	4.277	207.4	12.49	5.576	29	0.02
1/18/23 11:00	5.448	208.8	10.17	5.648	29	0.02
1/18/23 11:15	4.39	208.1	10.89	5.526	29	0.01
1/18/23 11:30	4.519	213	9.48	5.411	29	0
1/18/23 11:45	4.485	201.9	11.19	5.338	29.01	0.02
1/18/23 12:00	5.091	208.3	8.75	5.209	29.01	0
1/18/23 12:15	4.743	197.7	12.56	5.125	29.01	0.01
1/18/23 12:30	4.63	173.5	9.47	5.062	29.01	0
1/18/23 12:45	5.141	175	7.879	4.853	29.02	0
1/18/23 13:00	4.268	181.6	10.08	4.677	29.02	0.01
1/18/23 13:15	4.089	180.4	9.03	4.641	29.03	0
1/18/23 13:30	3.537	186.2	13.41	4.636	29.04	0
1/18/23 13:45	3.712	170.7	14.64	4.584	29.04	0
1/18/23 14:00	3.913	172.4	7.596	4.449	29.05	0
1/18/23 14:15	3.469	166.7	9.87	4.416	29.05	0
1/18/23 14:30	3.607	166.1	11.58	4.471	29.06	0
1/18/23 14:45	3.516	172.1	8.96	4.459	29.06	0
1/18/23 15:00	3.352	153.4	8.17	4.391	29.07	0
1/18/23 15:15	3.593	149.8	10.03	4.288	29.07	0
1/18/23 15:30	3.028	151	10.81	4.247	29.08	0
1/18/23 15:45	2.956	152.4	10.05	4.272	29.09	0
1/18/23 16:00	3.288	156.1	8.39	4.243	29.09	0
1/18/23 16:15	3.047	146.1	8.97	4.186	29.1	0
1/18/23 16:30	2.904	142.6	7.541	4.181	29.11	0
1/18/23 16:45	2.178	158.2	13.89	4.23	29.11	0
1/18/23 17:00	2.293	162.4	15.1	4.31	29.12	0.01
1/18/23 17:15	2.361	162.2	14.59	4.32	29.12	0
1/18/23 17:30	2.455	168.5	12.69	4.296	29.12	0.01
1/18/23 17:45	3.125	164.4	10.66	4.307	29.12	0
1/18/23 18:00	3.841	167.5	7.4	4.346	29.13	0
1/18/23 18:15	3.253	179.9	12.46	4.359	29.13	0
1/18/23 18:30	3.543	190.6	9.99	4.408	29.14	0
1/18/23 18:45	3.482	193.8	10.48	4.476	29.14	0
1/18/23 19:00	2.192	239.3	36.29	4.571	29.15	0
1/18/23 19:15	5.115	29.3	14.38	2.691	29.17	0
1/18/23 19:30	3.866	13.41	12.96	1.47	29.17	0.03
1/18/23 19:45	1.578	335.2	24.57	1.223	29.18	0.04
1/18/23 20:00	0.767	51.26	25.95	1.732	29.18	0.06
1/18/23 20:15	1.74	166.5	15.52	1.266	29.19	0.05
1/18/23 20:30	1.891	183.7	26.22	1.226	29.19	0.02
1/18/23 20:45	3.341	198.9	8.6	1.188	29.2	0.02
1/18/23 21:00	2.201	147.4	26.27	1.11	29.21	0.03
1/18/23 21:15	2.582	85.9	16.72	1.098	29.22	0
1/18/23 21:30	2.307	87.8	13.89	1.127	29.22	0.02
1/18/23 21:45	2.001	143.4	36.75	1.267	29.23	0
1/18/23 22:00	1.659	163.8	27.42	1.387	29.24	0.01
1/18/23 22:15	1.948	100.5	19.26	1.479	29.24	0.01
1/18/23 22:30	1.785	79.35	9.26	1.279	29.25	0.01
1/18/23 22:45	1.976	109.2	9.69	1.448	29.26	0
1/18/23 23:00	1.832	114.1	10.98	1.632	29.27	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/18/23 23:15	2.082	114.5	12.66	1.789	29.27	0.01
1/18/23 23:30	1.613	100.4	26.3	1.907	29.28	0
1/18/23 23:45	1.511	70.57	7.832	1.833	29.28	0
1/19/23 0:00	1.538	63.91	15.23	2.057	29.29	0
1/19/23 0:15	1.749	31.11	7.008	2.05	29.29	0
1/19/23 0:30	2.3	32.29	10.63	2.106	29.3	0
1/19/23 0:45	1.594	35.94	9.48	2.147	29.31	0
1/19/23 1:00	1.3	27.7	15.44	2.21	29.31	0
1/19/23 1:15	1.535	49.23	18.22	2.274	29.32	0
1/19/23 1:30	1.715	43.68	7.962	2.39	29.33	0
1/19/23 1:45	1.163	50.23	13.72	2.35	29.33	0
1/19/23 2:00	0.974	86.7	16.23	2.28	29.34	0
1/19/23 2:15	1.767	64.72	10.35	2.265	29.35	0.02
1/19/23 2:30	1.762	56.35	6.407	2.225	29.35	0.01
1/19/23 2:45	1.96	37.69	9.86	2.178	29.36	0
1/19/23 3:00	2.001	38.43	5.023	2.138	29.36	0
1/19/23 3:15	1.256	42.94	7.185	2.34	29.37	0
1/19/23 3:30	1.163	85.9	24.8	2.485	29.37	0
1/19/23 3:45	1.442	126	30.11	2.342	29.37	0
1/19/23 4:00	1.338	133.1	29.92	2.253	29.38	0
1/19/23 4:15	0.944	94.9	9.63	2.399	29.38	0
1/19/23 4:30	1.177	134.9	19.98	2.326	29.38	0
1/19/23 4:45	1.792	173.5	13.8	1.762	29.39	0
1/19/23 5:00	1.898	169.8	19.81	1.481	29.4	0
1/19/23 5:15	0.95	111.6	14.33	1.689	29.41	0
1/19/23 5:30	0.863	340.6	100.6	1.848	29.41	0
1/19/23 5:45	1.129	93.6	83.9	1.979	29.41	0
1/19/23 6:00	1.02	152.8	33.29	2.043	29.42	0
1/19/23 6:15	0.702	55.17	12.44	1.973	29.43	0
1/19/23 6:30	0.815	32.19	10.86	2.023	29.44	0
1/19/23 6:45	0.641	69.95	19.67	1.893	29.44	0
1/19/23 7:00	0.721	94.9	16.93	1.929	29.44	0
1/19/23 7:15	1.738	125	5.251	2.407	29.44	0
1/19/23 7:30	1.55	129.9	12.32	2.322	29.45	0
1/19/23 7:45	1.382	118.7	13.45	2.262	29.45	0
1/19/23 8:00	1.918	135.7	7.11	2.149	29.46	0
1/19/23 8:15	2.249	141.4	7.336	2.09	29.46	0
1/19/23 8:30	2.425	139.2	9.64	2.236	29.47	0
1/19/23 8:45	2.124	135.5	7.176	2.519	29.48	0
1/19/23 9:00	1.424	117.1	11.45	2.663	29.49	0
1/19/23 9:15	0.832	146.5	41.49	2.751	29.49	0
1/19/23 9:30	1.089	152.3	24.85	2.838	29.5	0
1/19/23 9:45	1.304	136.5	9.6	2.9	29.51	0
1/19/23 10:00	1.141	196.9	16.38	2.921	29.52	0
1/19/23 10:15	0.451	142.3	42.5	3.089	29.52	0
1/19/23 10:30	1.092	62.86	7.734	3.215	29.53	0
1/19/23 10:45	1.704	91.1	13.71	3.366	29.53	0
1/19/23 11:00	1.943	135.8	16.33	3.623	29.54	0
1/19/23 11:15	2.692	148.8	13.81	3.615	29.54	0
1/19/23 11:30	1.896	163.7	17.4	3.831	29.54	0
1/19/23 11:45	1.597	143	14.49	3.826	29.55	0
1/19/23 12:00	1.46	132.1	12.37	3.966	29.55	0
1/19/23 12:15	1.825	139.4	11.48	4.058	29.55	0
1/19/23 12:30	1.606	178.7	19.56	4.141	29.55	0
1/19/23 12:45	1.958	186.3	18.67	4.053	29.55	0
1/19/23 13:00	2.784	189.4	15.15	4.391	29.55	0
1/19/23 13:15	2.258	186.5	18.16	4.365	29.56	0
1/19/23 13:30	1.812	142.5	18.99	4.98	29.55	0
1/19/23 13:45	1.932	173.6	22.42	4.639	29.55	0
1/19/23 14:00	1.94	179.5	16.23	5.065	29.55	0
1/19/23 14:15	1.963	164.4	15	5.152	29.55	0
1/19/23 14:30	2.237	138.2	6.482	4.808	29.55	0
1/19/23 14:45	1.55	140.8	30.11	5.484	29.55	0
1/19/23 15:00	1.435	223.7	27.66	5.807	29.56	0
1/19/23 15:15	2.016	219.8	11.09	5.598	29.56	0
1/19/23 15:30	1.755	237.2	10.27	5.075	29.56	0
1/19/23 15:45	1.038	238.3	11.11	4.815	29.57	0
1/19/23 16:00	1.087	193.9	18.9	5.204	29.57	0
1/19/23 16:15	0.675	189.9	15.98	5.114	29.57	0
1/19/23 16:30	0.398	162.3	4.225	5.082	29.57	0
1/19/23 16:45	0.496	276.7	45.84	4.73	29.57	0
1/19/23 17:00	0.164	295.6	0.133	4.25	29.58	0
1/19/23 17:15	0.065	19.52	10.81	3.866	29.57	0
1/19/23 17:30	0.234	28.56	0.138	3.841	29.58	0
1/19/23 17:45	0	0	0	3.465	29.58	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/19/23 18:00	0.893	246.7	66.91	3.498	29.58	0
1/19/23 18:15	1.249	232.7	16.86	3.194	29.58	0
1/19/23 18:30	1.738	209.8	2.857	2.718	29.58	0
1/19/23 18:45	1.19	158.7	30.93	2.82	29.59	0
1/19/23 19:00	0.954	152.5	15.15	2.524	29.59	0
1/19/23 19:15	1.191	164	11.16	2.337	29.59	0
1/19/23 19:30	0.674	118.9	13.72	1.892	29.59	0
1/19/23 19:45	0.311	72.48	19.61	1.715	29.59	0
1/19/23 20:00	0.748	91.1	11.09	1.505	29.6	0
1/19/23 20:15	1.156	93.9	5.168	1.634	29.6	0
1/19/23 20:30	1.459	131.2	9.21	1.745	29.6	0
1/19/23 20:45	1.246	161.3	15.22	1.828	29.61	0
1/19/23 21:00	1.144	209.2	36.78	1.224	29.61	0
1/19/23 21:15	1.274	250.4	8.34	0.908	29.62	0
1/19/23 21:30	0.948	250.6	12.47	0.852	29.62	0
1/19/23 21:45	0.591	246.6	14.17	1.024	29.63	0
1/19/23 22:00	0.29	249.6	10.49	1.078	29.63	0
1/19/23 22:15	0.853	222.2	12.55	1.128	29.64	0
1/19/23 22:30	0.526	179.4	26.96	1.057	29.64	0
1/19/23 22:45	0.244	105.9	14.64	0.917	29.65	0
1/19/23 23:00	1.152	84.5	6.061	0.878	29.64	0
1/19/23 23:15	1.121	128.3	36.33	0.586	29.64	0
1/19/23 23:30	0.774	155.6	17.71	0.893	29.64	0
1/19/23 23:45	0.594	175.8	12.26	1.198	29.63	0
1/20/23 0:00	0.289	154.4	12.46	1.181	29.63	0
1/20/23 0:15	0.106	25.22	15.33	1.3	29.63	0
1/20/23 0:30	0.592	0.114	6.944	1.302	29.63	0
1/20/23 0:45	0.3	74.67	13.22	1.562	29.63	0
1/20/23 1:00	0.443	75.52	20.57	1.849	29.64	0
1/20/23 1:15	0.551	61.21	19.3	1.611	29.64	0
1/20/23 1:30	0.6	68.1	23.22	1.615	29.64	0
1/20/23 1:45	0.892	106.4	5.005	1.741	29.65	0
1/20/23 2:00	1.116	99.3	3.318	2.09	29.65	0
1/20/23 2:15	0.922	105.2	8.16	2.307	29.65	0
1/20/23 2:30	1.382	140.3	7.513	2.354	29.65	0
1/20/23 2:45	1.295	136.3	6.05	2.583	29.65	0
1/20/23 3:00	1.194	106.9	10.27	2.596	29.65	0
1/20/23 3:15	1.016	101.7	15.09	2.657	29.65	0
1/20/23 3:30	0.868	145	26.84	2.817	29.65	0
1/20/23 3:45	0.992	151.1	13.51	3.001	29.65	0
1/20/23 4:00	1.024	153.3	13.12	2.897	29.65	0
1/20/23 4:15	0.948	137.7	11.34	2.959	29.64	0
1/20/23 4:30	0.756	104.3	18.94	2.472	29.64	0
1/20/23 4:45	1.028	81.7	9.2	2.193	29.64	0
1/20/23 5:00	0.68	66.98	8.58	2.077	29.64	0
1/20/23 5:15	0.878	89.5	18.01	2.106	29.63	0
1/20/23 5:30	0.922	59.16	7.879	2.044	29.63	0
1/20/23 5:45	1.141	63.75	6.631	2.145	29.63	0
1/20/23 6:00	0.801	70.45	14.87	2.232	29.63	0
1/20/23 6:15	0.346	2.083	18.84	2.281	29.64	0
1/20/23 6:30	0.277	344.6	19.64	2.176	29.64	0
1/20/23 6:45	0.31	333.1	11.48	2.125	29.64	0
1/20/23 7:00	0.231	326.2	3.745	2.115	29.64	0
1/20/23 7:15	0.222	1.873	8.51	2.143	29.64	0
1/20/23 7:30	0.243	17.68	3.173	2.065	29.64	0
1/20/23 7:45	0.22	2.783	5.006	1.897	29.64	0
1/20/23 8:00	0.984	352.5	16.71	1.647	29.64	0
1/20/23 8:15	0.925	17.61	3.69	1.424	29.64	0
1/20/23 8:30	0.75	13.32	14.53	1.497	29.65	0
1/20/23 8:45	0.138	35.73	0.453	1.717	29.65	0
1/20/23 9:00	0.286	9.07	17.01	1.981	29.66	0
1/20/23 9:15	0.374	282.4	15.3	2.468	29.66	0
1/20/23 9:30	0.417	206.7	37.01	3.029	29.66	0
1/20/23 9:45	0.815	142.3	22.31	3.556	29.66	0
1/20/23 10:00	0.915	144.2	34.44	3.668	29.66	0
1/20/23 10:15	0.338	60.23	75.06	4.415	29.67	0
1/20/23 10:30	1.114	291.6	22.41	4.297	29.67	0
1/20/23 10:45	1.748	279	16.34	4.546	29.67	0
1/20/23 11:00	1.444	305.2	22.19	4.713	29.66	0
1/20/23 11:15	1.324	308.4	21.73	4.947	29.66	0
1/20/23 11:30	1.168	347.6	20.22	5.078	29.65	0
1/20/23 11:45	0.875	338.1	29.09	5.583	29.65	0
1/20/23 12:00	1.613	304.5	17.93	5.889	29.65	0
1/20/23 12:15	1.999	299.3	14.2	6.016	29.65	0
1/20/23 12:30	1.937	291	13.59	6.131	29.65	0

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/20/23 12:45	1.871	294.4	11.6	6.401	29.64	0
1/20/23 13:00	1.486	3.254	45.1	6.379	29.64	0
1/20/23 13:15	2.309	4.141	17.85	6.404	29.64	0
1/20/23 13:30	3.041	6.288	16.13	6.629	29.64	0
1/20/23 13:45	3.05	14.03	13.53	6.611	29.63	0
1/20/23 14:00	3.408	13.24	12.49	6.635	29.63	0
1/20/23 14:15	3.132	6.915	17.94	6.633	29.63	0
1/20/23 14:30	3.112	4.71	14.57	6.707	29.63	0
1/20/23 14:45	3.425	5.017	15.87	6.559	29.63	0
1/20/23 15:00	3.744	4.074	16.09	6.521	29.63	0
1/20/23 15:15	3.427	3.725	16.01	6.393	29.63	0
1/20/23 15:30	3.92	4.474	18.22	6.231	29.62	0
1/20/23 15:45	4.027	3.707	16.76	6.112	29.62	0
1/20/23 16:00	4.152	1.84	18.54	6.03	29.62	0
1/20/23 16:15	4.122	2.676	15.83	5.807	29.62	0
1/20/23 16:30	3.924	4.707	18.99	5.726	29.62	0
1/20/23 16:45	3.608	13.95	9.14	5.251	29.62	0
1/20/23 17:00	3.356	12.18	10.18	4.824	29.62	0
1/20/23 17:15	3.261	24.1	7.588	4.429	29.62	0
1/20/23 17:30	3.724	19.62	7.334	4.515	29.62	0
1/20/23 17:45	3.011	25.03	7.316	4.472	29.62	0
1/20/23 18:00	2.066	25.86	8.38	3.971	29.62	0
1/20/23 18:15	1.758	17.27	15.03	3.641	29.61	0
1/20/23 18:30	1.417	32.32	9.64	3.498	29.61	0
1/20/23 18:45	1.065	49.74	20.13	3.308	29.61	0
1/20/23 19:00	0.801	62.32	20.8	3.16	29.6	0
1/20/23 19:15	0.795	108.2	22.61	3.114	29.6	0
1/20/23 19:30	0.976	70.25	9.07	2.602	29.59	0
1/20/23 19:45	0.968	59.18	15.25	2.591	29.59	0
1/20/23 20:00	1.5	21.54	4.637	2.492	29.58	0
1/20/23 20:15	1.547	33.92	7.264	2.356	29.58	0
1/20/23 20:30	1.186	48.3	8.48	2.466	29.57	0
1/20/23 20:45	0.893	44	6.407	2.343	29.57	0
1/20/23 21:00	0.484	175.7	38.98	2.25	29.57	0
1/20/23 21:15	0.653	10.25	51.25	1.974	29.57	0
1/20/23 21:30	0.566	19.23	7.405	1.723	29.57	0
1/20/23 21:45	0.794	39.74	13.67	1.582	29.57	0
1/20/23 22:00	0.515	65.27	8.62	1.636	29.57	0
1/20/23 22:15	0.677	119.5	26.64	1.713	29.57	0
1/20/23 22:30	1.567	128.7	15.35	2.419	29.57	0
1/20/23 22:45	1.581	99.4	7.1	2.189	29.57	0
1/20/23 23:00	2.348	106.9	6.187	1.999	29.56	0
1/20/23 23:15	2.111	116.6	4.874	2.253	29.56	0
1/20/23 23:30	2.037	131.3	6.881	2.59	29.56	0
1/20/23 23:45	1.643	135.3	9.02	2.488	29.56	0
1/21/23 0:00	1.768	107.8	10.46	2.217	29.56	0
1/21/23 0:15	1.856	109.1	15.09	1.392	29.56	0
1/21/23 0:30	2.142	152.4	7.073	1.229	29.56	0
1/21/23 0:45	2.707	137.2	6.269	1.926	29.55	0
1/21/23 1:00	3.147	128.9	5.307	2.203	29.55	0
1/21/23 1:15	3.028	129.9	6.968	2.637	29.54	0
1/21/23 1:30	3.512	113.4	8.54	3.135	29.53	0
1/21/23 1:45	4.808	144.7	10.75	3.17	29.51	0
1/21/23 2:00	4.893	153.9	7.366	3.084	29.5	0
1/21/23 2:15	3.423	174.7	8.33	2.048	29.5	0
1/21/23 2:30	2.947	204.5	21.13	1.508	29.5	0
1/21/23 2:45	1.996	272.6	18.99	1.371	29.5	0
1/21/23 3:00	1.577	352	21.76	1.042	29.5	0
1/21/23 3:15	1.326	295.1	9.91	1.62	29.49	0
1/21/23 3:30	0.605	305	38	1.926	29.49	0
1/21/23 3:45	0.555	21.69	19.37	1.23	29.48	0
1/21/23 4:00	0.488	89.4	43.56	1.839	29.48	0
1/21/23 4:15	1.854	227.4	53.28	2.455	29.48	0
1/21/23 4:30	2.791	288.9	13.28	1.01	29.47	0
1/21/23 4:45	1.853	11.68	36.51	0.319	29.46	0
1/21/23 5:00	2.68	75.9	17.04	0.15	29.44	0
1/21/23 5:15	3.563	121.5	21.02	2.281	29.42	0
1/21/23 5:30	4.033	180.2	21.23	2.709	29.41	0
1/21/23 5:45	3.194	156.1	33.93	2.695	29.4	0
1/21/23 6:00	1.622	73.93	36.85	1.366	29.39	0
1/21/23 6:15	3.166	169.3	15.87	2.518	29.38	0
1/21/23 6:30	1.661	175.3	20.45	2.118	29.37	0
1/21/23 6:45	2.008	241.7	23.96	1.486	29.37	0
1/21/23 7:00	2.217	277.4	12.4	1.062	29.37	0
1/21/23 7:15	1.325	182.2	65.36	1.522	29.37	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/21/23 7:30	1.844	220.2	30.82	0.571	29.38	0
1/21/23 7:45	3.056	214.7	44.63	-0.729	29.39	0
1/21/23 8:00	2.439	107.5	26.56	-1.616	29.38	0
1/21/23 8:15	2.38	162.8	13.72	-1.096	29.39	0
1/21/23 8:30	3.002	168.2	8.75	-0.98	29.39	0
1/21/23 8:45	3.866	188	26.55	-1.032	29.39	0
1/21/23 9:00	4.15	206	5.4	-1.336	29.39	0
1/21/23 9:15	2.674	167	41.52	-1.329	29.39	0
1/21/23 9:30	3.29	162.3	10.58	-0.854	29.38	0
1/21/23 9:45	4.047	170.6	22.87	-0.111	29.38	0
1/21/23 10:00	5.567	224.6	44.63	0.347	29.37	0
1/21/23 10:15	7.298	258.5	6.423	0.003	29.38	0
1/21/23 10:30	1.72	117.8	74.87	0.352	29.39	0
1/21/23 10:45	2.263	96	18.18	0.131	29.39	0
1/21/23 11:00	4.469	93.1	12.03	0.442	29.38	0
1/21/23 11:15	4.574	129	53.27	1.569	29.38	0.01
1/21/23 11:30	5.15	217.3	25.57	0.88	29.39	0.01
1/21/23 11:45	3.619	183.7	13.19	1.343	29.38	0.02
1/21/23 12:00	2.823	151.7	10.52	0.925	29.38	0
1/21/23 12:15	3.574	152.7	6.681	0.677	29.37	0.02
1/21/23 12:30	4.301	131.5	9.53	0.695	29.36	0.03
1/21/23 12:45	4.649	126.9	9.39	0.824	29.34	0.04
1/21/23 13:00	5.097	124.2	10.4	1.012	29.33	0.03
1/21/23 13:15	5.8	115.6	10.78	1.464	29.31	0.02
1/21/23 13:30	5.782	115.1	9.93	2.368	29.29	0
1/21/23 13:45	5.564	120.1	10.29	3.333	29.28	0
1/21/23 14:00	5.732	127.1	8.73	4.026	29.27	0
1/21/23 14:15	5.478	128.6	9.19	4.613	29.26	0
1/21/23 14:30	5.25	123	8.12	4.966	29.26	0
1/21/23 14:45	5.199	131.8	9.77	5.196	29.25	0
1/21/23 15:00	5.081	140.2	8.47	5.234	29.24	0
1/21/23 15:15	6.416	147.6	9.62	5.316	29.23	0
1/21/23 15:30	3.435	141.1	12.74	4.82	29.23	0
1/21/23 15:45	6.578	169.9	16.29	5.071	29.23	0.01
1/21/23 16:00	7.622	177.4	11.87	4.666	29.23	0.01
1/21/23 16:15	7.685	175.8	9.7	4.464	29.23	0.01
1/21/23 16:30	7.199	171.1	10.18	4.27	29.23	0
1/21/23 16:45	7.212	170.2	11.82	4.121	29.23	0
1/21/23 17:00	7.222	176	10.45	3.845	29.23	0.01
1/21/23 17:15	7.263	176.4	9.25	3.519	29.24	0.03
1/21/23 17:30	5.871	172.3	11.59	3.399	29.25	0.01
1/21/23 17:45	6.129	185.9	11.07	3.467	29.25	0
1/21/23 18:00	5.172	199.4	14.19	3.452	29.26	0
1/21/23 18:15	5.951	215.8	11.62	3.434	29.27	0
1/21/23 18:30	7.072	231.7	9.09	2.872	29.28	0.01
1/21/23 18:45	5.91	234.5	8.21	2.308	29.29	0.01
1/21/23 19:00	3.565	236.6	9.04	2.161	29.31	0
1/21/23 19:15	2.919	222.5	13.92	2.187	29.31	0.01
1/21/23 19:30	2.194	216.6	15.56	2.229	29.32	0
1/21/23 19:45	2.287	246.2	12.68	2.246	29.34	0
1/21/23 20:00	0.763	224.1	61.51	2.22	29.34	0
1/21/23 20:15	0.283	83.2	21.4	2.148	29.35	0
1/21/23 20:30	0.561	195	58.32	2.135	29.36	0
1/21/23 20:45	1.215	2.45	14.84	2.101	29.36	0.01
1/21/23 21:00	0.902	2.889	13.18	2.016	29.37	0
1/21/23 21:15	0.467	17.71	14.99	1.991	29.38	0.01
1/21/23 21:30	0.471	43.2	7.491	1.975	29.39	0
1/21/23 21:45	0.436	69.32	13.44	1.964	29.39	0.01
1/21/23 22:00	1.186	83.4	10.93	1.957	29.4	0
1/21/23 22:15	0.845	139.9	36.32	1.976	29.4	0
1/21/23 22:30	1.057	179.4	35.87	2.108	29.41	0.01
1/21/23 22:45	0.969	234.9	22.92	2.209	29.42	0
1/21/23 23:00	1.465	247.7	46.15	2.332	29.43	0
1/21/23 23:15	1.311	324.3	38.8	2.548	29.44	0
1/21/23 23:30	1.638	339.6	26.33	2.834	29.45	0
1/21/23 23:45	2.072	18.98	16.15	2.918	29.45	0
1/22/23 0:00	2.165	5.824	26.97	2.886	29.46	0
1/22/23 0:15	4.16	330.4	11.93	3.174	29.46	0
1/22/23 0:30	3.406	330.2	10.91	3.158	29.47	0
1/22/23 0:45	2.118	347.1	17.84	3.048	29.47	0
1/22/23 1:00	2.425	355.6	17	3.024	29.48	0
1/22/23 1:15	2.394	351	16.84	3.021	29.48	0
1/22/23 1:30	2.488	356.3	17.12	2.967	29.48	0
1/22/23 1:45	3.025	16.63	12.24	2.756	29.49	0
1/22/23 2:00	3.789	16.65	10.51	2.821	29.5	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/22/23 2:15	1.485	25.79	24.41	2.707	29.51	0
1/22/23 2:30	0.848	3.926	59.16	2.758	29.51	0
1/22/23 2:45	1.417	270	23.17	2.87	29.52	0
1/22/23 3:00	0.605	314.2	26.45	2.837	29.52	0
1/22/23 3:15	0.43	243.3	31.49	2.738	29.53	0
1/22/23 3:30	0.577	199.1	54.18	2.663	29.53	0
1/22/23 3:45	0.8	186.4	18.66	2.498	29.53	0
1/22/23 4:00	0.774	114.2	42.41	2.408	29.53	0
1/22/23 4:15	1.061	105.3	22.67	2.202	29.54	0
1/22/23 4:30	1.137	145.8	21.29	2.171	29.54	0
1/22/23 4:45	1.594	153.3	12.07	2.258	29.54	0
1/22/23 5:00	1.282	95.3	19.61	1.913	29.54	0
1/22/23 5:15	0.975	76.01	15.34	1.472	29.54	0
1/22/23 5:30	0.423	102.9	10.48	1.481	29.55	0
1/22/23 5:45	0.333	195.7	36.96	1.959	29.56	0
1/22/23 6:00	0.693	137.9	33.42	2.101	29.56	0
1/22/23 6:15	1.371	81.5	8.87	1.491	29.56	0
1/22/23 6:30	1.248	99.3	12.9	1.582	29.56	0
1/22/23 6:45	1.401	155.6	20.3	1.68	29.56	0
1/22/23 7:00	1.889	165.3	18.38	1.647	29.57	0
1/22/23 7:15	2.015	164.6	14.88	1.434	29.57	0
1/22/23 7:30	1.481	120.2	15.14	0.853	29.57	0
1/22/23 7:45	0.625	77.09	25.47	0.456	29.58	0
1/22/23 8:00	0.406	177.1	28.46	0.704	29.58	0
1/22/23 8:15	0.119	68.02	9.13	1.054	29.59	0
1/22/23 8:30	0.638	40.35	10.37	1.361	29.59	0
1/22/23 8:45	0.882	13.93	9.9	1.475	29.59	0
1/22/23 9:00	1.275	24.87	7.53	1.199	29.6	0
1/22/23 9:15	1.204	30.99	5.499	1.09	29.61	0
1/22/23 9:30	0.728	35.87	5.846	1.478	29.61	0
1/22/23 9:45	0.584	138.2	31.18	2.164	29.61	0
1/22/23 10:00	1.344	159.6	22.12	2.419	29.61	0
1/22/23 10:15	0.987	148.6	17.32	2.015	29.62	0
1/22/23 10:30	0.689	105	20.44	2.265	29.62	0
1/22/23 10:45	1.048	102.4	21.42	3.238	29.62	0
1/22/23 11:00	1.148	129.5	15.65	3.786	29.62	0
1/22/23 11:15	0.859	116.4	28.3	4.34	29.62	0
1/22/23 11:30	1.552	189.8	33.81	4.244	29.62	0
1/22/23 11:45	1.841	207.6	10.45	3.981	29.62	0
1/22/23 12:00	1.769	194.6	13.19	4.212	29.61	0
1/22/23 12:15	2.069	195	14.28	4.521	29.61	0
1/22/23 12:30	2.011	193	17.46	4.714	29.6	0
1/22/23 12:45	1.06	207.3	17.91	4.501	29.6	0
1/22/23 13:00	0.776	106.2	29.83	4.581	29.6	0
1/22/23 13:15	0.731	167.2	32.15	4.631	29.6	0
1/22/23 13:30	0.693	182.3	16.74	4.716	29.6	0
1/22/23 13:45	0.8	184.6	18.34	4.881	29.6	0
1/22/23 14:00	1.505	188.7	22.56	4.799	29.6	0
1/22/23 14:15	1.45	171.7	18.44	4.787	29.6	0
1/22/23 14:30	1.054	189.4	8.49	4.778	29.61	0
1/22/23 14:45	0.634	358.1	65.47	4.893	29.62	0
1/22/23 15:00	0.919	29.05	12.87	4.971	29.62	0
1/22/23 15:15	1.38	35.89	8.61	4.869	29.62	0
1/22/23 15:30	1.357	45.7	10.03	4.639	29.62	0
1/22/23 15:45	1.201	28.91	12.62	4.528	29.62	0
1/22/23 16:00	1.063	29.08	10.75	4.575	29.63	0
1/22/23 16:15	0.195	41.98	4.577	4.923	29.63	0
1/22/23 16:30	0.589	40.24	3.299	4.76	29.63	0
1/22/23 16:45	1.248	27.94	6.856	4.18	29.63	0
1/22/23 17:00	1.112	20.67	7.827	4.039	29.63	0
1/22/23 17:15	1.434	13.32	5.09	3.847	29.63	0
1/22/23 17:30	1.008	27.33	5.53	3.524	29.63	0
1/22/23 17:45	0.934	34.45	7.475	3.193	29.63	0
1/22/23 18:00	0.747	60.56	19.5	2.924	29.62	0
1/22/23 18:15	0.704	61.88	14.1	2.979	29.63	0
1/22/23 18:30	1.037	58.64	15.56	2.83	29.63	0
1/22/23 18:45	0.41	81.2	12.62	2.59	29.63	0
1/22/23 19:00	0.612	57.77	11.88	2.402	29.64	0
1/22/23 19:15	0.552	54.06	2.179	2.05	29.64	0
1/22/23 19:30	0.522	102.3	23.7	2.258	29.64	0
1/22/23 19:45	0.579	79.13	32.82	2.04	29.64	0
1/22/23 20:00	0.736	88.7	7.239	1.567	29.63	0
1/22/23 20:15	1.09	109.6	6.348	1.429	29.63	0
1/22/23 20:30	0.898	117.2	9.09	2.089	29.63	0
1/22/23 20:45	0.769	119.3	6.441	2.001	29.63	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/22/23 21:00	0.645	146.8	18.57	1.179	29.63	0
1/22/23 21:15	0.918	103.4	4.295	1.175	29.63	0
1/22/23 21:30	1.002	119.2	6.633	1.604	29.63	0
1/22/23 21:45	1.598	121.1	5.096	1.862	29.63	0
1/22/23 22:00	1.412	118.6	7.538	1.518	29.63	0
1/22/23 22:15	1.759	142.8	6.88	1.809	29.63	0
1/22/23 22:30	1.729	141.4	5.311	1.655	29.62	0
1/22/23 22:45	1.598	136.6	11.69	1.457	29.62	0
1/22/23 23:00	1.617	131	11.88	1.606	29.62	0
1/22/23 23:15	1.344	151.1	8.2	1.626	29.63	0
1/22/23 23:30	0.945	145.9	10	1.81	29.63	0
1/22/23 23:45	0.69	94.5	35.68	1.882	29.63	0
1/23/23 0:00	1.203	120.3	25.31	1.725	29.62	0
1/23/23 0:15	1.71	168.3	14.77	1.198	29.62	0
1/23/23 0:30	2.252	194.5	8.27	0.746	29.62	0
1/23/23 0:45	2.069	160.5	11.45	0.865	29.62	0
1/23/23 1:00	2.165	177.2	8.12	0.757	29.62	0
1/23/23 1:15	1.823	164.6	10.16	1.084	29.62	0
1/23/23 1:30	2.044	153	16.25	1.114	29.62	0
1/23/23 1:45	2.331	118.1	7.947	1.444	29.61	0
1/23/23 2:00	1.744	129.7	8.72	1.978	29.62	0
1/23/23 2:15	1.737	148.1	6.215	2.372	29.63	0
1/23/23 2:30	1.915	135.7	7.745	2.227	29.62	0
1/23/23 2:45	1.752	130.7	11.67	2.227	29.62	0
1/23/23 3:00	1.306	125.9	7.442	2.547	29.62	0
1/23/23 3:15	1.018	128.8	17.17	2.848	29.63	0
1/23/23 3:30	0.431	15.36	46.96	2.715	29.65	0
1/23/23 3:45	1.09	22.54	21.44	1.961	29.65	0
1/23/23 4:00	1.744	27.23	11.9	1.185	29.65	0
1/23/23 4:15	1.684	20.92	8.26	1.794	29.65	0
1/23/23 4:30	1.984	20.06	6.688	1.532	29.66	0
1/23/23 4:45	1.935	29.73	11.54	1.37	29.67	0
1/23/23 5:00	1.581	26.34	15.99	1.223	29.67	0
1/23/23 5:15	1.607	52.14	10.83	1.02	29.65	0
1/23/23 5:30	1.973	166.2	28.04	1.312	29.64	0
1/23/23 5:45	2.726	151.4	11.69	1.837	29.63	0
1/23/23 6:00	1.996	186.6	20.34	1.878	29.63	0
1/23/23 6:15	2.18	175.5	16.49	1.998	29.63	0
1/23/23 6:30	1.261	148.5	19.99	1.919	29.63	0
1/23/23 6:45	0.962	138	18.38	2.099	29.63	0
1/23/23 7:00	0.776	158.1	4.965	2.467	29.64	0
1/23/23 7:15	0.717	151.3	11.48	2.874	29.65	0
1/23/23 7:30	0.254	352.5	5.909	2.559	29.66	0
1/23/23 7:45	0.9	352.3	17.41	2.609	29.66	0
1/23/23 8:00	0.724	62.96	14.12	2.561	29.66	0
1/23/23 8:15	1.622	106	8.86	2.346	29.65	0
1/23/23 8:30	2.725	134.4	8.89	2.305	29.64	0
1/23/23 8:45	2.25	150.7	7.785	2.338	29.64	0
1/23/23 9:00	1.946	142.5	10.73	2.877	29.64	0
1/23/23 9:15	1.678	108.2	12.17	3.601	29.64	0
1/23/23 9:30	1.536	127.6	9.28	3.981	29.64	0
1/23/23 9:45	1.649	128.2	9.88	4.353	29.64	0
1/23/23 10:00	1.208	138.9	16.07	4.947	29.64	0
1/23/23 10:15	2.11	126.5	13.57	5.09	29.64	0
1/23/23 10:30	1.442	127.3	20.01	5.443	29.65	0
1/23/23 10:45	1.164	224.2	14.89	5.148	29.66	0
1/23/23 11:00	1.549	246.8	17.84	5.17	29.67	0
1/23/23 11:15	1.414	198.8	60.91	5.249	29.65	0
1/23/23 11:30	1.881	124.7	19.11	5.435	29.64	0
1/23/23 11:45	1.019	260.2	70.64	5.592	29.66	0
1/23/23 12:00	1.834	337.1	20.07	5.666	29.67	0
1/23/23 12:15	3.048	323.2	6.854	5.418	29.68	0
1/23/23 12:30	2.26	5.385	24.22	5.339	29.67	0
1/23/23 12:45	1.829	46.03	17.93	5.139	29.67	0
1/23/23 13:00	0.514	79.17	31.68	5.283	29.66	0
1/23/23 13:15	1.519	234.5	31.2	5.921	29.65	0
1/23/23 13:30	2.718	190.2	13.3	5.815	29.64	0
1/23/23 13:45	2.741	209.3	12.05	5.614	29.63	0
1/23/23 14:00	1.891	237.7	16.82	5.838	29.64	0
1/23/23 14:15	2.383	266.4	14.71	5.925	29.65	0
1/23/23 14:30	2.959	272.2	9.08	5.82	29.66	0
1/23/23 14:45	2.042	274.4	16.1	5.913	29.66	0
1/23/23 15:00	2.093	317.2	19.06	5.935	29.66	0
1/23/23 15:15	2.277	356	18.44	5.665	29.66	0
1/23/23 15:30	2.469	13.12	13.27	5.356	29.66	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/23/23 15:45	1.709	0.97	16.42	5.303	29.66	0
1/23/23 16:00	0.878	346.6	33.37	5.081	29.66	0
1/23/23 16:15	0.165	309.4	2.327	5.608	29.65	0
1/23/23 16:30	0.247	304.5	5.158	6.062	29.65	0
1/23/23 16:45	1.254	278.8	4.655	5.177	29.65	0
1/23/23 17:00	0.292	275	0.994	4.821	29.65	0
1/23/23 17:15	0.519	36.56	3.9	4.584	29.65	0
1/23/23 17:30	0.791	33.5	22.34	4.318	29.65	0
1/23/23 17:45	0.796	77.11	18.8	4.216	29.65	0
1/23/23 18:00	0.686	18.81	13.72	4.029	29.65	0
1/23/23 18:15	1.351	23.82	6.506	3.767	29.65	0
1/23/23 18:30	1.48	26.32	6.267	3.232	29.66	0
1/23/23 18:45	1.157	31.34	7.28	3.183	29.66	0
1/23/23 19:00	1.442	5.508	2.667	3.46	29.66	0
1/23/23 19:15	1.427	3.928	11.39	3.564	29.66	0
1/23/23 19:30	1.513	10.04	9.47	3.376	29.66	0
1/23/23 19:45	1.48	24.61	4.859	3.051	29.66	0
1/23/23 20:00	1.83	29.3	7.125	2.763	29.67	0
1/23/23 20:15	1.495	16.74	14.71	2.989	29.68	0
1/23/23 20:30	1.627	339.8	11.01	3.627	29.67	0
1/23/23 20:45	1.444	0.824	53.37	3.595	29.68	0
1/23/23 21:00	1.425	50.02	10.81	2.334	29.68	0
1/23/23 21:15	0.966	89.9	46.18	2.849	29.68	0
1/23/23 21:30	1.756	148	6.9	3.012	29.67	0
1/23/23 21:45	1.674	127.7	11.82	3.112	29.67	0
1/23/23 22:00	1.076	185.2	27.19	3.671	29.67	0
1/23/23 22:15	0.157	234.8	31.91	3.003	29.68	0
1/23/23 22:30	1.125	234.5	68.1	3.7	29.68	0
1/23/23 22:45	0.612	16.57	16.93	2.885	29.69	0
1/23/23 23:00	1.088	169.4	12.57	2.562	29.69	0
1/23/23 23:15	1.491	164.5	12.11	2.717	29.69	0
1/23/23 23:30	1.522	167.3	7.85	2.637	29.69	0
1/23/23 23:45	1.545	157.5	14.21	2.778	29.69	0
1/24/23 0:00	1.3	147.8	14.4	2.808	29.69	0
1/24/23 0:15	1.47	155.9	13.02	2.865	29.69	0
1/24/23 0:30	1.494	139.1	7.455	2.982	29.69	0
1/24/23 0:45	0.865	105	16.73	3.146	29.68	0
1/24/23 1:00	0.883	107.4	25.09	2.922	29.69	0
1/24/23 1:15	0.86	91.8	23.31	3.206	29.69	0
1/24/23 1:30	0.545	110.7	25.18	3.191	29.69	0
1/24/23 1:45	0.731	134.1	18.76	3.568	29.69	0
1/24/23 2:00	0.773	147.5	13.22	3.712	29.69	0
1/24/23 2:15	0.824	115.8	7.72	3.427	29.69	0
1/24/23 2:30	0.74	135.9	27.5	3.245	29.69	0
1/24/23 2:45	0.934	119.7	31.04	3.41	29.7	0
1/24/23 3:00	0.965	163.2	10.45	3.572	29.7	0
1/24/23 3:15	1.829	127.8	6.81	3.538	29.69	0
1/24/23 3:30	2.312	124.6	5.379	3.175	29.68	0
1/24/23 3:45	1.599	137.8	9.71	3.385	29.69	0
1/24/23 4:00	1.455	158.1	5.814	3.608	29.7	0
1/24/23 4:15	1.572	168.6	7.923	3.636	29.69	0
1/24/23 4:30	1.5	155.7	11.64	3.644	29.69	0
1/24/23 4:45	1.141	110.6	18	3.063	29.69	0
1/24/23 5:00	1.181	115.1	8.47	2.626	29.7	0
1/24/23 5:15	1.776	142.2	6.22	3.172	29.69	0
1/24/23 5:30	1.719	140.2	6.703	3.283	29.7	0
1/24/23 5:45	1.807	154.4	9.56	3.273	29.7	0
1/24/23 6:00	1.748	161.7	8.97	3.472	29.71	0
1/24/23 6:15	2.351	130.8	5.99	3.186	29.71	0
1/24/23 6:30	2.206	124.5	5.022	3.035	29.7	0
1/24/23 6:45	2.347	128.3	7.832	3.286	29.7	0
1/24/23 7:00	2.18	137.2	6.437	3.334	29.71	0
1/24/23 7:15	2.15	124	3.621	3.474	29.71	0
1/24/23 7:30	2.188	124	7.286	3.678	29.71	0
1/24/23 7:45	2.332	128.4	6.062	3.803	29.71	0
1/24/23 8:00	2.469	148.8	10.44	3.72	29.71	0
1/24/23 8:15	2.383	151.5	12.72	3.412	29.72	0
1/24/23 8:30	2.593	138.2	5.576	3.593	29.72	0
1/24/23 8:45	2.631	152.1	9.94	3.622	29.71	0
1/24/23 9:00	1.871	125.5	23.05	3.485	29.72	0
1/24/23 9:15	2.202	122.6	11.29	3.578	29.72	0
1/24/23 9:30	2.117	109.3	14.6	3.846	29.72	0
1/24/23 9:45	2.279	114.6	10.55	3.992	29.72	0
1/24/23 10:00	1.697	97.4	10.53	4.19	29.73	0.01
1/24/23 10:15	1.054	95.4	12.11	4.242	29.74	0

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/24/23 10:30	1.588	110.5	11.75	4.346	29.73	0
1/24/23 10:45	1.874	115.4	8.82	4.366	29.74	0
1/24/23 11:00	1.819	117.7	14.18	4.349	29.74	0
1/24/23 11:15	2.053	112.9	8.22	4.26	29.74	0
1/24/23 11:30	2.044	112.3	6.682	4.311	29.74	0
1/24/23 11:45	2.001	119.7	9.46	4.469	29.74	0
1/24/23 12:00	1.953	122.9	12.91	4.569	29.74	0
1/24/23 12:15	2.18	136.8	10.34	4.582	29.74	0
1/24/23 12:30	1.866	136.5	14.63	4.39	29.74	0
1/24/23 12:45	2.373	111.6	9.65	4.352	29.74	0
1/24/23 13:00	2.191	101.5	12.66	4.334	29.74	0
1/24/23 13:15	1.732	96.5	13.89	4.383	29.74	0
1/24/23 13:30	2.011	105.3	11.32	4.409	29.73	0
1/24/23 13:45	1.846	116	14.97	4.476	29.74	0
1/24/23 14:00	1.415	108.3	17.43	4.575	29.74	0
1/24/23 14:15	1.773	85.8	14.31	4.576	29.74	0
1/24/23 14:30	2.174	104.8	10.88	4.57	29.74	0
1/24/23 14:45	1.822	105.9	11	4.657	29.74	0
1/24/23 15:00	2.627	110.1	8.11	4.713	29.73	0
1/24/23 15:15	1.664	97.3	14.31	4.768	29.73	0
1/24/23 15:30	1	84.1	18.24	4.837	29.74	0
1/24/23 15:45	1.84	105.5	12.55	4.883	29.74	0
1/24/23 16:00	2.02	107.9	6.862	4.878	29.74	0
1/24/23 16:15	1.499	78.11	21.52	4.865	29.74	0
1/24/23 16:30	1.199	109.1	12.1	4.86	29.75	0
1/24/23 16:45	1.175	83.2	20.27	4.869	29.75	0.01
1/24/23 17:00	1.354	96.1	10.14	4.875	29.76	0
1/24/23 17:15	1.43	97.7	11.43	4.899	29.76	0
1/24/23 17:30	1.469	88.5	8.08	4.912	29.76	0
1/24/23 17:45	1.759	106.4	8.5	4.919	29.76	0
1/24/23 18:00	1.8	100.5	7.892	4.951	29.76	0.01
1/24/23 18:15	1.786	104.4	8.18	4.978	29.76	0
1/24/23 18:30	1.511	104.8	10.79	4.996	29.76	0
1/24/23 18:45	1.735	103.3	9.63	5.019	29.77	0
1/24/23 19:00	1.78	109.9	7.388	5.03	29.77	0
1/24/23 19:15	1.405	119.2	7.798	5.019	29.76	0
1/24/23 19:30	1.166	102.2	6.843	5.022	29.77	0
1/24/23 19:45	1.327	86.3	11.13	5.028	29.77	0
1/24/23 20:00	1.49	90.8	6.814	5.043	29.78	0.01
1/24/23 20:15	1.503	95.6	7.807	5.067	29.78	0
1/24/23 20:30	1.328	100.8	8.57	5.076	29.78	0
1/24/23 20:45	1.516	107.8	6.433	5.093	29.78	0.01
1/24/23 21:00	1.182	114.5	7.453	5.081	29.78	0
1/24/23 21:15	1.354	123.4	7.313	5.069	29.78	0.01
1/24/23 21:30	1.668	132.8	7.346	5.043	29.78	0
1/24/23 21:45	1.701	137.3	6.087	5.039	29.78	0
1/24/23 22:00	1.342	137.2	7.572	5.064	29.78	0
1/24/23 22:15	0.342	153.8	24.93	5.082	29.79	0
1/24/23 22:30	0.101	148.2	16.9	5.103	29.79	0.01
1/24/23 22:45	0.263	122.2	10.25	5.105	29.8	0.01
1/24/23 23:00	0	0	0	5.106	29.8	0
1/24/23 23:15	0.296	95.6	7.654	5.107	29.81	0.01
1/24/23 23:30	0.775	153.2	12.77	5.116	29.81	0
1/24/23 23:45	0.918	157.7	9.09	5.092	29.81	0.01
1/25/23 0:00	1.003	131.6	7.646	5.006	29.81	0
1/25/23 0:15	0.945	128.4	7.88	4.984	29.81	0
1/25/23 0:30	0.887	150.1	9.39	4.993	29.81	0
1/25/23 0:45	1.113	148.9	8.49	4.955	29.81	0
1/25/23 1:00	0.823	147.9	11.57	4.931	29.81	0
1/25/23 1:15	0.89	144.9	11.67	4.922	29.82	0
1/25/23 1:30	0.795	137.1	18.16	4.88	29.82	0.01
1/25/23 1:45	0.605	129.7	28.36	4.865	29.82	0
1/25/23 2:00	1.183	156.6	15.59	4.908	29.82	0
1/25/23 2:15	0.988	156.2	7.983	4.887	29.82	0
1/25/23 2:30	0.927	137.3	16.17	4.812	29.82	0.01
1/25/23 2:45	1.048	114.1	10.61	4.833	29.82	0
1/25/23 3:00	0.936	139.7	15.42	4.859	29.82	0
1/25/23 3:15	0.031	150.9	0.775	4.885	29.82	0
1/25/23 3:30	1.091	310.1	13.7	4.841	29.82	0
1/25/23 3:45	0.94	295.3	11.63	4.828	29.82	0
1/25/23 4:00	1.18	293.1	7.526	4.837	29.82	0
1/25/23 4:15	1.046	13.51	21.09	4.805	29.83	0
1/25/23 4:30	1.309	24.54	7.306	4.609	29.83	0
1/25/23 4:45	1.483	38.45	14.26	4.712	29.83	0
1/25/23 5:00	1.607	25	14.63	4.569	29.82	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/25/23 5:15	1.449	350.9	11.96	4.559	29.83	0
1/25/23 5:30	1.037	350.7	16.56	4.562	29.83	0
1/25/23 5:45	0.44	88.5	49.64	4.518	29.83	0
1/25/23 6:00	0.597	97.3	9.75	4.411	29.83	0
1/25/23 6:15	0.515	21	18.72	4.458	29.83	0
1/25/23 6:30	0.503	12.06	16.86	4.692	29.84	0
1/25/23 6:45	0.388	344.9	4.683	4.721	29.84	0
1/25/23 7:00	0.181	330.5	5.059	4.737	29.84	0
1/25/23 7:15	0.312	279.7	21.12	4.776	29.85	0
1/25/23 7:30	1.047	264	7.382	4.744	29.85	0
1/25/23 7:45	0.301	323.9	67.25	4.687	29.85	0
1/25/23 8:00	0.077	59.96	6.277	4.616	29.86	0
1/25/23 8:15	0.567	131.8	16.9	4.443	29.86	0
1/25/23 8:30	1.048	133.1	7.837	4.369	29.86	0
1/25/23 8:45	0.612	158	5.696	4.441	29.86	0
1/25/23 9:00	0.861	182.7	14.39	4.403	29.87	0
1/25/23 9:15	0.853	149.4	11.45	4.433	29.87	0
1/25/23 9:30	0.727	198.8	17.29	4.418	29.88	0
1/25/23 9:45	0.55	180.6	30.07	4.339	29.88	0
1/25/23 10:00	0.459	157.5	23.37	4.403	29.88	0.01
1/25/23 10:15	0.737	1.645	13.17	4.813	29.88	0
1/25/23 10:30	0.839	6.089	13.65	5.023	29.88	0
1/25/23 10:45	0.517	33.13	25.02	5.034	29.89	0
1/25/23 11:00	0.487	23.64	40.58	5.042	29.88	0
1/25/23 11:15	1.309	347.7	17.7	5.273	29.88	0
1/25/23 11:30	1.381	322.9	23.69	5.446	29.87	0
1/25/23 11:45	1.236	252.5	22.04	5.463	29.87	0
1/25/23 12:00	1.992	278.3	15.63	5.855	29.86	0
1/25/23 12:15	2.244	306.9	15.35	5.796	29.86	0
1/25/23 12:30	2.452	339.4	22.68	5.851	29.86	0
1/25/23 12:45	2.21	16.22	15	5.974	29.86	0
1/25/23 13:00	1.669	18.15	8.94	5.885	29.85	0
1/25/23 13:15	1.048	14.99	19.67	5.885	29.85	0
1/25/23 13:30	1.377	45.79	9.9	6.112	29.85	0
1/25/23 13:45	1.969	29.02	10.74	5.98	29.85	0
1/25/23 14:00	1.856	24.79	11.52	6.024	29.84	0
1/25/23 14:15	1.73	11.3	13.59	6.263	29.84	0
1/25/23 14:30	2.47	14.92	11.48	6.26	29.83	0
1/25/23 14:45	2.859	5.029	16.85	6.234	29.83	0
1/25/23 15:00	2.497	5.487	15.4	6.158	29.83	0
1/25/23 15:15	2.51	338.3	13.3	6.189	29.83	0
1/25/23 15:30	2.969	321.6	7.979	6.328	29.83	0
1/25/23 15:45	2.72	323.6	7.458	6.377	29.83	0
1/25/23 16:00	2.542	335.1	13.41	6.294	29.83	0
1/25/23 16:15	1.74	355.1	17.56	6.277	29.83	0
1/25/23 16:30	1.537	326.6	6.685	6.154	29.83	0
1/25/23 16:45	0.97	320.7	13.2	5.907	29.83	0
1/25/23 17:00	1.06	24.25	16.12	5.715	29.83	0
1/25/23 17:15	1.127	13.32	13.53	5.423	29.83	0
1/25/23 17:30	1.125	355.6	20.86	5.366	29.84	0
1/25/23 17:45	0.731	11.45	21.82	5.325	29.84	0
1/25/23 18:00	1.52	17.01	9.33	5.259	29.84	0
1/25/23 18:15	2.269	21.67	12.22	5.255	29.84	0
1/25/23 18:30	2.518	17.91	11.58	5.117	29.84	0
1/25/23 18:45	1.864	344.4	14.86	5.027	29.85	0
1/25/23 19:00	1.779	354.5	17.54	5.078	29.85	0
1/25/23 19:15	1.803	8.41	12.9	5.185	29.86	0
1/25/23 19:30	1.524	13.3	5.083	5.017	29.86	0
1/25/23 19:45	1.306	16.89	7.361	4.924	29.86	0
1/25/23 20:00	1.292	14.14	9.25	4.755	29.86	0
1/25/23 20:15	1.046	31.77	10.26	4.55	29.85	0
1/25/23 20:30	1.576	29.13	7.692	4.383	29.85	0
1/25/23 20:45	1.538	11.94	8.85	4.198	29.85	0
1/25/23 21:00	1.446	16.98	7.456	4.182	29.85	0
1/25/23 21:15	1.729	17.89	6.207	3.942	29.85	0
1/25/23 21:30	1.74	38.36	7.939	3.979	29.85	0
1/25/23 21:45	1.869	22.79	7.779	4.129	29.84	0
1/25/23 22:00	1.96	7	9.33	4.092	29.84	0
1/25/23 22:15	1.746	15.93	5.805	4.273	29.84	0
1/25/23 22:30	1.321	20.55	6.109	4.107	29.84	0
1/25/23 22:45	1.47	12.61	7.854	4.136	29.83	0
1/25/23 23:00	1.311	14.93	16.19	4.238	29.84	0
1/25/23 23:15	1.196	24.03	12.03	3.963	29.84	0
1/25/23 23:30	1.538	31.86	13.75	4.052	29.83	0
1/25/23 23:45	1.282	38.25	8.88	3.933	29.83	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/26/23 0:00	1.39	31.14	9.57	3.962	29.83	0
1/26/23 0:15	1.72	19.16	9.54	3.855	29.83	0
1/26/23 0:30	1.275	23.22	15.71	3.752	29.83	0
1/26/23 0:45	1.316	24.2	14.49	3.905	29.83	0
1/26/23 1:00	0.91	29.11	9.81	3.98	29.83	0
1/26/23 1:15	0.941	39.51	12.17	3.957	29.83	0
1/26/23 1:30	0.808	25.84	11.39	4.023	29.83	0
1/26/23 1:45	0.064	358.6	3.908	4.085	29.83	0
1/26/23 2:00	0.328	57.72	76.39	3.745	29.83	0
1/26/23 2:15	0.393	65.32	8.37	3.293	29.83	0
1/26/23 2:30	0.58	127.7	9.93	3.26	29.83	0
1/26/23 2:45	1.306	138.8	5.638	3.374	29.83	0
1/26/23 3:00	1.293	141.7	14.75	3.515	29.83	0
1/26/23 3:15	0.524	98.1	7.308	3.569	29.83	0
1/26/23 3:30	1.176	8.53	24.53	3.124	29.83	0
1/26/23 3:45	0.767	336.5	22.63	2.89	29.83	0
1/26/23 4:00	0.791	182.3	43.9	2.871	29.81	0
1/26/23 4:15	0.74	215	24.04	2.681	29.81	0
1/26/23 4:30	1.853	223.6	12.09	2.476	29.8	0
1/26/23 4:45	0.959	270.5	23.77	2.444	29.8	0
1/26/23 5:00	0.442	246.9	47.67	2.523	29.8	0
1/26/23 5:15	0.969	261	55.42	2.385	29.8	0
1/26/23 5:30	1.511	276	25.69	2.651	29.8	0
1/26/23 5:45	1.65	290.5	12.73	2.836	29.8	0
1/26/23 6:00	0.589	313.8	53.61	2.918	29.8	0
1/26/23 6:15	1.12	299	46.61	2.761	29.8	0
1/26/23 6:30	1.574	298	26.92	2.818	29.81	0
1/26/23 6:45	1.693	237.8	17.81	2.892	29.8	0
1/26/23 7:00	1.908	208	13.22	1.831	29.8	0
1/26/23 7:15	2.285	168.4	6.801	1.648	29.8	0
1/26/23 7:30	2.133	165.1	9.7	1.724	29.8	0
1/26/23 7:45	1.474	151.7	17.68	1.677	29.8	0
1/26/23 8:00	1.054	111.1	8.54	1.809	29.8	0
1/26/23 8:15	1.131	100.6	13.89	1.999	29.81	0
1/26/23 8:30	1.521	130.7	10.72	2.142	29.81	0
1/26/23 8:45	1.198	162.7	21.22	2.387	29.81	0
1/26/23 9:00	1.971	211.2	5.347	2.184	29.81	0
1/26/23 9:15	1.278	200.6	14.95	2.152	29.81	0
1/26/23 9:30	1.805	173.4	15.48	2.365	29.82	0
1/26/23 9:45	1.55	151.9	13.17	2.499	29.81	0
1/26/23 10:00	1.978	145.6	8.8	2.533	29.81	0.01
1/26/23 10:15	2.196	148	6.185	2.623	29.8	0
1/26/23 10:30	1.422	149.6	8.26	2.782	29.81	0
1/26/23 10:45	0.256	123.3	17.82	2.794	29.81	0
1/26/23 11:00	0.645	137.3	9.7	2.916	29.79	0
1/26/23 11:15	0.657	87.4	23.73	3.047	29.79	0
1/26/23 11:30	1.242	88.9	35.27	3.037	29.79	0
1/26/23 11:45	1.114	117.4	25.19	3.217	29.78	0
1/26/23 12:00	1.59	139	10.36	3.351	29.77	0
1/26/23 12:15	1.279	200.2	22.1	3.387	29.77	0
1/26/23 12:30	1.187	210.8	13.45	3.412	29.76	0
1/26/23 12:45	1.331	204.7	12.43	3.437	29.76	0
1/26/23 13:00	1.532	185.1	11.23	3.486	29.75	0
1/26/23 13:15	2.457	187.5	6.94	3.522	29.74	0
1/26/23 13:30	1.917	188.7	7.523	3.508	29.74	0
1/26/23 13:45	1.226	201.3	21.53	3.491	29.74	0
1/26/23 14:00	1.311	178.6	9.66	3.482	29.74	0
1/26/23 14:15	1.548	136.7	10.46	3.509	29.73	0
1/26/23 14:30	1.469	150.8	19	3.523	29.73	0
1/26/23 14:45	1.828	169.2	14.12	3.534	29.73	0
1/26/23 15:00	1.013	138.8	18.86	3.521	29.73	0
1/26/23 15:15	0.989	180.8	22.69	3.608	29.73	0
1/26/23 15:30	1.434	163.4	21.4	3.568	29.73	0
1/26/23 15:45	1.295	126.8	9	3.581	29.73	0
1/26/23 16:00	1.226	112.6	12.13	3.609	29.72	0
1/26/23 16:15	1.699	110	9.82	3.595	29.72	0
1/26/23 16:30	1.782	114.3	8.65	3.552	29.71	0
1/26/23 16:45	1.718	116.8	7.751	3.56	29.71	0
1/26/23 17:00	1.678	113.8	9.43	3.551	29.7	0
1/26/23 17:15	2.026	115.4	10.17	3.536	29.69	0
1/26/23 17:30	1.618	111.9	10.12	3.54	29.68	0
1/26/23 17:45	1.74	118.1	9.11	3.582	29.68	0
1/26/23 18:00	2.043	117.2	9.81	3.617	29.68	0
1/26/23 18:15	2.345	115.9	9.86	3.654	29.68	0
1/26/23 18:30	2.358	113.1	11.57	3.676	29.67	0

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/26/23 18:45	2.351	114.2	10.76	3.712	29.67	0
1/26/23 19:00	1.894	113.4	9.97	3.764	29.66	0
1/26/23 19:15	2.659	126.5	10.22	3.803	29.65	0.01
1/26/23 19:30	2.772	135.9	8.08	3.856	29.65	0
1/26/23 19:45	2.773	138.4	7.122	3.847	29.64	0
1/26/23 20:00	2.428	112.1	14.87	3.795	29.64	0.01
1/26/23 20:15	1.929	107.7	11.64	3.749	29.64	0
1/26/23 20:30	3.079	123.3	6.52	3.717	29.62	0
1/26/23 20:45	2.418	113.2	14.03	3.681	29.6	0
1/26/23 21:00	1.839	132.6	12.8	3.727	29.6	0
1/26/23 21:15	2.462	126.2	6.996	3.743	29.59	0
1/26/23 21:30	2.246	106.8	14.61	3.803	29.59	0
1/26/23 21:45	3.091	119.2	8.04	3.85	29.57	0
1/26/23 22:00	3.375	130.3	9.68	4.014	29.56	0
1/26/23 22:15	2.868	123.1	13.69	4.061	29.55	0
1/26/23 22:30	2.614	120	8.8	4.104	29.55	0
1/26/23 22:45	2.844	132.8	9.26	4.15	29.55	0
1/26/23 23:00	3.1	137.6	9.05	4.233	29.54	0.01
1/26/23 23:15	3.129	140.9	9.54	4.375	29.53	0.01
1/26/23 23:30	3.354	134.6	9.42	4.457	29.51	0
1/26/23 23:45	3.175	139.6	10.49	4.555	29.5	0.01
1/27/23 0:00	3.039	141.3	8.92	4.604	29.49	0.01
1/27/23 0:15	3.273	145.9	9.44	4.77	29.48	0
1/27/23 0:30	2.735	151.3	10.47	4.928	29.48	0.01
1/27/23 0:45	3.389	167.3	10.31	5.171	29.46	0.01
1/27/23 1:00	3.548	170.7	10.24	5.338	29.45	0.01
1/27/23 1:15	3.613	171.5	9.23	5.439	29.44	0.01
1/27/23 1:30	3.881	172.6	9.44	5.491	29.43	0.01
1/27/23 1:45	3.979	169.3	8.61	5.535	29.42	0.02
1/27/23 2:00	3.442	164.8	10.99	5.55	29.41	0.01
1/27/23 2:15	3.598	170.8	8.41	5.567	29.41	0.02
1/27/23 2:30	3.263	179.2	9.08	5.592	29.4	0.05
1/27/23 2:45	2.352	164.9	13.4	5.63	29.4	0.03
1/27/23 3:00	1.295	145.5	18.51	5.633	29.39	0.03
1/27/23 3:15	0.793	70.33	14.44	5.548	29.39	0.03
1/27/23 3:30	1.354	72.13	9.77	5.524	29.39	0.04
1/27/23 3:45	1.481	73.02	9.45	5.587	29.38	0.04
1/27/23 4:00	1.407	81.5	8.89	5.603	29.38	0.01
1/27/23 4:15	1.667	95.7	7.803	5.711	29.37	0.01
1/27/23 4:30	1.577	99.1	15.35	5.757	29.37	0.02
1/27/23 4:45	1.77	123.7	7.054	5.765	29.37	0.01
1/27/23 5:00	1.746	127.4	11.45	5.813	29.36	0.01
1/27/23 5:15	1.162	92.1	14.74	5.828	29.36	0
1/27/23 5:30	1.322	85.2	19.82	5.815	29.36	0.02
1/27/23 5:45	1.546	95.7	28.57	5.78	29.36	0.01
1/27/23 6:00	1.454	56.29	21.8	5.851	29.37	0.01
1/27/23 6:15	0.75	83.5	9.12	6.015	29.38	0.03
1/27/23 6:30	0.24	42.89	16.59	6.07	29.38	0.02
1/27/23 6:45	0.665	7.265	17.31	6.051	29.37	0.01
1/27/23 7:00	0.515	335.1	18.18	6.049	29.37	0.01
1/27/23 7:15	0.8	318.3	15.03	6.078	29.37	0.01
1/27/23 7:30	1.223	278	15.25	6.096	29.37	0
1/27/23 7:45	1.885	286.7	11.7	6.057	29.37	0
1/27/23 8:00	2.089	288.1	10.22	5.996	29.36	0
1/27/23 8:15	2.439	284.8	10	5.976	29.36	0
1/27/23 8:30	2.396	304.9	19.93	6.007	29.37	0
1/27/23 8:45	1.853	331.7	25.13	6.062	29.37	0
1/27/23 9:00	2.297	306	20.75	6.098	29.38	0
1/27/23 9:15	3.651	307	9.42	6.018	29.39	0
1/27/23 9:30	4.98	317.8	7.718	5.974	29.39	0.01
1/27/23 9:45	3.472	319.7	12.53	6.033	29.4	0
1/27/23 10:00	2.496	352.9	17.13	6.107	29.4	0
1/27/23 10:15	2.615	10.49	13.34	6.325	29.41	0
1/27/23 10:30	3.367	357.2	17.61	6.206	29.41	0
1/27/23 10:45	2.29	2.638	14.33	6.281	29.42	0
1/27/23 11:00	2.283	16.49	14.71	6.114	29.42	0
1/27/23 11:15	2.616	346.6	14.73	5.954	29.41	0
1/27/23 11:30	2.104	346.5	15.66	6.091	29.41	0
1/27/23 11:45	2.031	327.4	16.93	6.209	29.41	0
1/27/23 12:00	2.743	345.2	16.28	6.283	29.4	0
1/27/23 12:15	2.949	17.25	15.35	6.342	29.4	0
1/27/23 12:30	2.697	14.37	14.78	6.349	29.4	0
1/27/23 12:45	2.41	15.49	11.77	6.324	29.4	0
1/27/23 13:00	1.759	26.91	10.77	6.112	29.4	0
1/27/23 13:15	1.747	25.99	6.143	6.039	29.4	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/27/23 13:30	1.062	19.01	12.89	6.153	29.4	0
1/27/23 13:45	1.095	45.66	14.06	6.215	29.4	0
1/27/23 14:00	0.856	46.19	15.45	6.08	29.39	0
1/27/23 14:15	0.455	71.69	6.973	6.085	29.39	0
1/27/23 14:30	0.768	56.89	8.94	6.155	29.39	0
1/27/23 14:45	1.2	73.33	12.67	6.176	29.39	0
1/27/23 15:00	0.622	32.15	18.43	6.19	29.38	0
1/27/23 15:15	0.559	15.77	12.95	6.22	29.39	0
1/27/23 15:30	0.689	40.88	9.52	6.271	29.38	0
1/27/23 15:45	0.949	65.23	15.87	6.175	29.38	0
1/27/23 16:00	0.885	147.6	23.4	6.186	29.38	0
1/27/23 16:15	0.986	186.7	14.75	6.24	29.38	0
1/27/23 16:30	0.922	191.8	15.23	6.23	29.38	0
1/27/23 16:45	0.938	132.9	10.38	6.098	29.37	0
1/27/23 17:00	1.568	139.3	5.437	5.923	29.37	0
1/27/23 17:15	0.972	135.5	8.29	5.811	29.36	0
1/27/23 17:30	0.742	92.1	24.17	5.865	29.36	0
1/27/23 17:45	1.157	49.64	7.457	5.671	29.36	0
1/27/23 18:00	1.642	40.12	8.63	5.533	29.36	0
1/27/23 18:15	1.37	41.93	10.08	5.425	29.36	0
1/27/23 18:30	1.29	25.91	6.882	5.29	29.36	0
1/27/23 18:45	0.931	32.66	4.859	5.215	29.36	0
1/27/23 19:00	1.482	35.58	6.141	5.22	29.36	0
1/27/23 19:15	2.036	34.36	8.06	5.217	29.36	0
1/27/23 19:30	1.292	49.29	11.48	5.078	29.36	0
1/27/23 19:45	2.525	16.87	7.829	4.998	29.35	0
1/27/23 20:00	2.575	19.71	6.536	4.995	29.36	0
1/27/23 20:15	2.721	19.69	5.366	5.027	29.35	0
1/27/23 20:30	2.521	40.32	10.03	4.991	29.35	0.01
1/27/23 20:45	2.053	32.19	9.59	4.892	29.34	0
1/27/23 21:00	2.174	22.27	5.22	4.88	29.34	0
1/27/23 21:15	1.782	29.78	8.16	4.685	29.34	0.01
1/27/23 21:30	2.139	34.31	5.954	4.39	29.34	0
1/27/23 21:45	1.698	27.01	7.435	4.321	29.33	0
1/27/23 22:00	1.864	31.01	6.705	4.274	29.33	0
1/27/23 22:15	1.965	25.61	7.24	4.206	29.33	0
1/27/23 22:30	2.231	29.23	7.718	4.132	29.33	0
1/27/23 22:45	2.42	30.13	9.78	4.137	29.33	0
1/27/23 23:00	2.467	26.68	9.95	4.204	29.33	0
1/27/23 23:15	2.479	17.88	9.73	4.217	29.33	0
1/27/23 23:30	1.716	17.05	8.2	4.26	29.33	0
1/27/23 23:45	1.111	20.35	9.19	4.247	29.33	0
1/28/23 0:00	0.735	25.55	15.84	4.265	29.32	0.01
1/28/23 0:15	0.318	32.95	7.114	4.29	29.32	0
1/28/23 0:30	0.615	23.71	12.51	4.296	29.31	0
1/28/23 0:45	0.089	71.14	2.116	4.221	29.3	0
1/28/23 1:00	0.751	60	13.69	4.166	29.3	0.01
1/28/23 1:15	0.773	85.7	32.89	4.094	29.3	0.01
1/28/23 1:30	1.393	149	8.99	4.14	29.3	0.01
1/28/23 1:45	0.622	154.8	7.89	4.193	29.3	0
1/28/23 2:00	0.817	0.965	53.83	4.128	29.3	0
1/28/23 2:15	0.928	15.23	62.3	4.06	29.3	0
1/28/23 2:30	1.71	44.39	12.14	4.079	29.3	0
1/28/23 2:45	0.869	21.56	18.21	4.109	29.29	0.01
1/28/23 3:00	0.488	292.6	47.24	4.235	29.29	0
1/28/23 3:15	0.597	18.7	24.75	4.114	29.29	0
1/28/23 3:30	1.35	307.1	13.65	4.058	29.29	0.02
1/28/23 3:45	0.975	12.57	16.69	4.016	29.29	0.01
1/28/23 4:00	2.225	12.93	8.41	4.048	29.29	0
1/28/23 4:15	2.118	18.05	9.19	4.04	29.29	0
1/28/23 4:30	1.218	333.3	25.15	4.04	29.29	0
1/28/23 4:45	0.757	6.52	19.76	4.004	29.29	0
1/28/23 5:00	0.799	305.7	31.65	4.045	29.29	0
1/28/23 5:15	1.677	12	24	4.024	29.29	0
1/28/23 5:30	1.771	6.551	17.66	4.052	29.28	0
1/28/23 5:45	2.259	3.01	19.82	4.198	29.28	0
1/28/23 6:00	2.335	0.537	15.82	4.045	29.27	0
1/28/23 6:15	2.08	33.37	19.84	3.769	29.27	0
1/28/23 6:30	1.189	33.93	19.69	3.657	29.27	0
1/28/23 6:45	1.366	350.3	15.25	3.441	29.28	0
1/28/23 7:00	1.539	300.9	23.57	3.567	29.27	0
1/28/23 7:15	1.205	16.76	49.61	3.231	29.27	0
1/28/23 7:30	1.838	31.85	21.66	3.152	29.27	0
1/28/23 7:45	1.508	21.29	8.43	3.24	29.28	0
1/28/23 8:00	1.457	38.92	9.07	3.162	29.28	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/28/23 8:15	1.235	48.04	14.14	3.101	29.28	0
1/28/23 8:30	1.969	19.04	8.4	3.2	29.28	0
1/28/23 8:45	2.08	8.22	11.82	3.408	29.28	0
1/28/23 9:00	2.054	5.854	18.32	3.646	29.29	0
1/28/23 9:15	1.838	357.6	17.35	3.736	29.29	0
1/28/23 9:30	2.322	7.966	11.24	3.768	29.29	0
1/28/23 9:45	2.864	12.08	8.72	3.828	29.29	0
1/28/23 10:00	2.588	19.21	9.87	3.942	29.29	0
1/28/23 10:15	2.437	15.42	10.16	3.924	29.29	0
1/28/23 10:30	1.846	27.18	8.84	3.891	29.29	0
1/28/23 10:45	1.393	22.75	11.47	4.004	29.29	0
1/28/23 11:00	1.961	340.7	19.43	3.975	29.29	0
1/28/23 11:15	1.762	356.6	18.99	4.114	29.29	0
1/28/23 11:30	1.73	3.896	23.8	4.185	29.28	0
1/28/23 11:45	1.813	1.259	20.02	4.256	29.28	0
1/28/23 12:00	1.494	14.94	22.05	4.043	29.27	0
1/28/23 12:15	1.872	340	19.59	3.967	29.27	0
1/28/23 12:30	3.027	316.5	7.305	4.222	29.27	0
1/28/23 12:45	3.831	316.3	8.62	4.137	29.26	0
1/28/23 13:00	3.615	326.4	12.24	3.954	29.26	0
1/28/23 13:15	3.471	318.6	8.08	3.721	29.26	0
1/28/23 13:30	3.108	328.3	10.03	3.871	29.25	0
1/28/23 13:45	2.787	331.5	8.44	4.038	29.26	0
1/28/23 14:00	3.751	324.4	5.478	4.156	29.26	0
1/28/23 14:15	3.664	339.5	17.91	4.221	29.26	0
1/28/23 14:30	3.356	7.298	16.89	4.047	29.26	0
1/28/23 14:45	5.5	336.1	7.808	4.517	29.25	0
1/28/23 15:00	5.381	335.5	8.54	4.546	29.25	0
1/28/23 15:15	4.036	335	18.47	4.498	29.26	0
1/28/23 15:30	3.396	14.38	16.05	4.24	29.26	0
1/28/23 15:45	3.972	9.05	14.07	3.715	29.27	0
1/28/23 16:00	4.228	13.16	11.72	3.834	29.27	0
1/28/23 16:15	2.772	21.25	12.94	3.762	29.28	0
1/28/23 16:30	4.001	4.263	14.49	3.767	29.28	0
1/28/23 16:45	3.545	5.963	16.8	3.805	29.28	0
1/28/23 17:00	3.424	18.72	11.73	3.712	29.28	0
1/28/23 17:15	3.538	18	11.55	3.735	29.29	0
1/28/23 17:30	2.821	45.29	27.02	3.802	29.3	0
1/28/23 17:45	3.793	91.9	13.07	3.694	29.31	0
1/28/23 18:00	3.202	110.8	15.53	3.226	29.31	0
1/28/23 18:15	3.037	108.8	17.1	2.842	29.31	0
1/28/23 18:30	2.628	100.8	20.06	2.651	29.32	0
1/28/23 18:45	2.569	118.4	16.96	2.579	29.32	0
1/28/23 19:00	1.339	107.1	34.86	2.557	29.33	0
1/28/23 19:15	0.977	43.96	54.19	2.543	29.33	0
1/28/23 19:30	1.866	102.6	43.61	3.114	29.34	0
1/28/23 19:45	2.605	99.6	21	2.96	29.34	0
1/28/23 20:00	2.136	83.6	14	2.793	29.35	0
1/28/23 20:15	3.618	75.87	19.63	2.877	29.36	0
1/28/23 20:30	3.515	88.4	10.34	2.712	29.37	0
1/28/23 20:45	2.949	102.4	12.89	2.613	29.38	0
1/28/23 21:00	1.843	103.5	26.18	2.525	29.39	0
1/28/23 21:15	1.475	41.54	20.44	1.628	29.4	0
1/28/23 21:30	1.426	50.37	15.98	1.284	29.41	0
1/28/23 21:45	1.498	104.3	23.88	1.463	29.42	0
1/28/23 22:00	1.338	56.12	21.83	1.669	29.43	0
1/28/23 22:15	1.457	71.53	14.24	1.57	29.43	0
1/28/23 22:30	2.421	77.41	14.48	1.475	29.44	0
1/28/23 22:45	2.729	87.8	12.35	1.474	29.45	0
1/28/23 23:00	2.353	89.9	11.29	0.738	29.45	0
1/28/23 23:15	2.007	79.75	17.82	0.387	29.46	0
1/28/23 23:30	2.338	85.3	17.32	0.262	29.46	0
1/28/23 23:45	2.604	101.1	10.48	0.505	29.46	0
1/29/23 0:00	2.71	88.5	13.06	0.728	29.47	0
1/29/23 0:15	1.756	67.71	19.35	0.346	29.48	0
1/29/23 0:30	2.252	81.5	11.76	0.167	29.48	0
1/29/23 0:45	1.475	99.8	18.22	0.021	29.48	0
1/29/23 1:00	1.024	312	14.27	-0.157	29.49	0
1/29/23 1:15	1.003	305.9	27.5	0.04	29.5	0
1/29/23 1:30	1.193	351.1	13.46	0.103	29.5	0
1/29/23 1:45	1.253	32.43	26.6	-0.154	29.51	0
1/29/23 2:00	1.642	18.61	12.59	-0.684	29.51	0
1/29/23 2:15	1.438	23.98	18.32	-1.317	29.52	0
1/29/23 2:30	1.115	28.11	18.52	-0.908	29.53	0
1/29/23 2:45	1.482	8.32	17.65	-0.788	29.53	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/29/23 3:00	1.111	20.94	8.72	-0.771	29.54	0
1/29/23 3:15	0.687	1.536	12.25	-0.233	29.54	0
1/29/23 3:30	1.22	8.88	9.65	-0.322	29.55	0
1/29/23 3:45	1.634	22.82	6.985	-1.53	29.55	0
1/29/23 4:00	1.446	23.03	7.869	-1.749	29.56	0
1/29/23 4:15	1.001	20.38	12.08	-1.773	29.56	0
1/29/23 4:30	1.443	29.2	12.62	-1.634	29.56	0
1/29/23 4:45	1.149	28.67	12.74	-1.582	29.56	0
1/29/23 5:00	0.804	43.23	11.01	-1.62	29.56	0
1/29/23 5:15	1.051	24.41	5.165	-1.632	29.57	0
1/29/23 5:30	0.976	58.33	12.46	-1.815	29.57	0
1/29/23 5:45	1.262	32.32	8.76	-2.055	29.57	0
1/29/23 6:00	1.253	30.65	9.67	-2.334	29.58	0
1/29/23 6:15	0.793	359	15.31	-2.576	29.58	0
1/29/23 6:30	0.505	15.59	37.65	-1.963	29.58	0
1/29/23 6:45	0.601	2.24	35.28	-2.499	29.58	0
1/29/23 7:00	1.494	23.35	8.73	-2.424	29.58	0
1/29/23 7:15	0.825	54.2	16.72	-2.467	29.59	0
1/29/23 7:30	1.222	97.5	9.95	-2.372	29.59	0
1/29/23 7:45	0.809	77.15	74.73	-2.69	29.6	0
1/29/23 8:00	2.056	301.8	8.09	-2.676	29.61	0
1/29/23 8:15	1.798	298.2	10.59	-2.048	29.61	0
1/29/23 8:30	1.241	297.2	28.66	-1.764	29.62	0
1/29/23 8:45	0.477	326.9	35.39	-1.929	29.62	0
1/29/23 9:00	0.28	251.8	36.73	-1.218	29.63	0.01
1/29/23 9:15	0.885	110.8	10.73	-0.356	29.63	0
1/29/23 9:30	1.093	104.7	5.983	-0.05	29.64	0
1/29/23 9:45	1.043	95.9	17.36	0.431	29.64	0
1/29/23 10:00	1.48	115.9	18.82	0.566	29.64	0
1/29/23 10:15	2.168	120.6	15.13	0.779	29.64	0
1/29/23 10:30	2.276	111.7	13.94	1.013	29.64	0
1/29/23 10:45	2.845	124.2	14.44	1.202	29.65	0
1/29/23 11:00	2.575	128.2	20.85	1.44	29.65	0
1/29/23 11:15	2.254	110.6	20.84	1.76	29.65	0
1/29/23 11:30	2.458	108.8	23.88	2.049	29.64	0
1/29/23 11:45	2.664	117.4	36.52	2.091	29.64	0
1/29/23 12:00	4.133	138.7	18.81	1.955	29.64	0
1/29/23 12:15	4.399	126.3	10.16	1.928	29.63	0
1/29/23 12:30	2.97	133.2	10.83	2.261	29.63	0
1/29/23 12:45	2.645	122.6	15.52	2.349	29.63	0
1/29/23 13:00	2.968	121.9	12.96	2.31	29.62	0
1/29/23 13:15	3.719	134.2	20.26	2.4	29.62	0
1/29/23 13:30	3.396	156.7	10.96	2.458	29.62	0
1/29/23 13:45	2.792	133	21.46	2.673	29.62	0
1/29/23 14:00	3.032	151.6	15.23	2.552	29.62	0
1/29/23 14:15	1.661	89.2	18.69	2.524	29.62	0
1/29/23 14:30	1.162	67.21	23.42	2.845	29.61	0
1/29/23 14:45	1.603	70.92	18.8	2.707	29.61	0
1/29/23 15:00	1.291	27.85	32.9	2.832	29.6	0
1/29/23 15:15	1.463	13.99	27.39	2.852	29.6	0
1/29/23 15:30	0.752	345.2	50.25	2.917	29.61	0
1/29/23 15:45	2.143	4.307	16.94	2.55	29.61	0
1/29/23 16:00	1.999	11.78	10.38	2.242	29.61	0
1/29/23 16:15	1.298	4.236	18.62	2.428	29.61	0
1/29/23 16:30	1.369	13.83	12.68	2.053	29.61	0
1/29/23 16:45	2.057	18.97	7.264	1.644	29.61	0
1/29/23 17:00	1.727	42.05	12.48	1.321	29.61	0
1/29/23 17:15	1.625	36.12	9.44	0.996	29.61	0
1/29/23 17:30	1.672	38.78	16.37	0.99	29.6	0
1/29/23 17:45	2.25	90.6	12.48	0.874	29.6	0
1/29/23 18:00	2.729	97.1	8.19	0.674	29.6	0
1/29/23 18:15	2.322	96.2	10.1	0.434	29.59	0
1/29/23 18:30	2.493	101.3	10.9	0.132	29.6	0
1/29/23 18:45	2.659	92.1	10.18	-0.159	29.59	0
1/29/23 19:00	2.312	79.54	14.64	0.186	29.59	0
1/29/23 19:15	2.457	83.9	8.78	0.003	29.59	0
1/29/23 19:30	1.811	64.4	9.49	0.074	29.6	0
1/29/23 19:45	1.571	88.2	35.5	0.155	29.6	0
1/29/23 20:00	1.524	130.6	14.91	-0.411	29.6	0
1/29/23 20:15	1.7	154.3	12.39	-0.666	29.6	0
1/29/23 20:30	1.901	120.4	6.422	-0.448	29.6	0
1/29/23 20:45	1.881	109.5	8.38	-0.773	29.6	0
1/29/23 21:00	1.342	102.2	8.04	-1.542	29.6	0
1/29/23 21:15	1.368	129.3	6.722	-1.808	29.61	0
1/29/23 21:30	1.409	105.4	13.27	-1.606	29.61	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/29/23 21:45	1.386	114.6	13	-1.79	29.61	0
1/29/23 22:00	1.171	122	7.836	-1.875	29.61	0
1/29/23 22:15	1.493	128.6	10.59	-2.114	29.62	0
1/29/23 22:30	1.924	139.5	7.171	-2.297	29.62	0
1/29/23 22:45	2.324	137	7.342	-2.445	29.61	0
1/29/23 23:00	2.262	132.6	9.2	-2.553	29.61	0
1/29/23 23:15	2.734	134.1	9.53	-2.394	29.62	0
1/29/23 23:30	2.547	136.6	7.989	-2.521	29.62	0
1/29/23 23:45	2.4	128.3	6.999	-2.725	29.62	0
1/30/23 0:00	2.56	135.8	7.204	-2.98	29.61	0
1/30/23 0:15	2.269	136.6	8.93	-3.048	29.62	0
1/30/23 0:30	2.842	145.4	6.931	-3.014	29.61	0
1/30/23 0:45	2.707	142.1	8.43	-2.919	29.61	0
1/30/23 1:00	2.707	126.9	8.5	-2.951	29.61	0
1/30/23 1:15	2.313	123.6	8.9	-2.985	29.61	0
1/30/23 1:30	1.989	128.9	8.48	-3.042	29.61	0
1/30/23 1:45	2.067	140.7	7.847	-2.992	29.61	0
1/30/23 2:00	1.81	150.1	5.721	-2.934	29.61	0
1/30/23 2:15	1.744	148	9.03	-3.018	29.61	0
1/30/23 2:30	1.986	144.7	8.32	-3.126	29.61	0
1/30/23 2:45	2.214	140.7	8.49	-3.289	29.6	0
1/30/23 3:00	2.061	135.7	7.68	-3.451	29.6	0
1/30/23 3:15	1.503	134	10.28	-3.316	29.61	0
1/30/23 3:30	1.384	136	9.4	-3.333	29.61	0
1/30/23 3:45	1.202	140.1	7.421	-3.541	29.61	0
1/30/23 4:00	0.703	106	14.45	-4.018	29.61	0
1/30/23 4:15	1.099	93.4	6.529	-4.178	29.61	0
1/30/23 4:30	1.38	123.7	8.97	-4.226	29.61	0
1/30/23 4:45	1.678	135.9	5.305	-4.2	29.6	0
1/30/23 5:00	1.748	141	7.057	-4.027	29.61	0
1/30/23 5:15	1.998	150.3	7.75	-4.226	29.61	0
1/30/23 5:30	2.053	161.4	7.82	-4.226	29.61	0
1/30/23 5:45	1.88	163.2	6.519	-4.361	29.61	0
1/30/23 6:00	1.722	154.1	4.667	-4.574	29.61	0
1/30/23 6:15	1.899	151.9	3.048	-4.579	29.61	0
1/30/23 6:30	1.357	156	7.708	-4.756	29.62	0
1/30/23 6:45	1.231	147.7	4.291	-4.783	29.62	0
1/30/23 7:00	1.664	163.5	5.694	-5.038	29.61	0
1/30/23 7:15	1.713	174.9	8.14	-5.104	29.61	0
1/30/23 7:30	1.818	171.8	8.01	-5.314	29.6	0
1/30/23 7:45	1.722	173.5	7.245	-5.261	29.6	0
1/30/23 8:00	1.552	169.2	6.501	-5.084	29.6	0
1/30/23 8:15	1.626	172	6.369	-4.867	29.59	0
1/30/23 8:30	1.264	160.6	12.22	-4.327	29.59	0
1/30/23 8:45	1.015	152.5	11.38	-3.877	29.59	0
1/30/23 9:00	0.384	103.4	20.17	-3.165	29.59	0
1/30/23 9:15	0.666	100.2	22.34	-2.558	29.59	0
1/30/23 9:30	0.684	83.1	29.11	-2.285	29.59	0
1/30/23 9:45	1.453	134.3	9.95	-2.209	29.59	0
1/30/23 10:00	0.639	49.45	67.69	-1.009	29.6	0
1/30/23 10:15	1.021	53.37	45.09	-1.041	29.6	0
1/30/23 10:30	1.279	76.25	15.7	-0.718	29.6	0
1/30/23 10:45	2.043	104	21.78	-0.483	29.59	0
1/30/23 11:00	2.66	189	10.99	-0.551	29.59	0
1/30/23 11:15	3.115	190.7	11.92	-0.652	29.59	0
1/30/23 11:30	2.924	197.9	10.41	-0.421	29.59	0
1/30/23 11:45	2.437	194.2	12.08	-0.181	29.59	0
1/30/23 12:00	1.965	200.5	20.9	0.381	29.59	0
1/30/23 12:15	1.331	214.1	18.23	0.731	29.59	0
1/30/23 12:30	1.284	213	19.86	1.078	29.59	0
1/30/23 12:45	0.842	211.1	27.11	1.783	29.58	0
1/30/23 13:00	1.544	206.7	20.43	1.784	29.58	0
1/30/23 13:15	1.361	199.9	33.01	1.926	29.57	0
1/30/23 13:30	1.881	201.1	17.91	1.954	29.56	0
1/30/23 13:45	1.613	214.4	17.62	2.206	29.55	0
1/30/23 14:00	1.136	244	39.31	2.531	29.56	0
1/30/23 14:15	1.241	230.4	31.3	2.761	29.56	0
1/30/23 14:30	0.591	262.2	20.77	2.927	29.56	0
1/30/23 14:45	0.779	12.6	53.35	3.075	29.56	0
1/30/23 15:00	0.538	1.622	27.59	2.659	29.56	0
1/30/23 15:15	1.692	156	57.29	2.522	29.55	0
1/30/23 15:30	2.124	202.7	14.78	2.305	29.54	0
1/30/23 15:45	1.804	197.7	14.96	2.266	29.53	0
1/30/23 16:00	1.115	230.4	27.23	2.24	29.53	0
1/30/23 16:15	1.276	163.2	27.44	2.077	29.52	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/30/23 16:30	1.178	242.2	18	1.995	29.52	0
1/30/23 16:45	1.279	254	12.76	1.627	29.52	0
1/30/23 17:00	1.585	245.7	9.95	1.463	29.51	0
1/30/23 17:15	2.124	276.7	2.442	1.119	29.51	0
1/30/23 17:30	1.573	285.5	6.597	0.783	29.51	0
1/30/23 17:45	1.266	353.4	36.08	0.798	29.51	0
1/30/23 18:00	0.955	42.17	14.06	0.374	29.51	0
1/30/23 18:15	1.167	34.69	4.554	0.457	29.5	0
1/30/23 18:30	1.083	23.01	11.39	0.274	29.5	0
1/30/23 18:45	0.935	39.71	8.42	0.178	29.5	0
1/30/23 19:00	1.002	20.91	7.835	0.229	29.5	0
1/30/23 19:15	1.098	27.41	5.178	0.109	29.51	0
1/30/23 19:30	1.009	44.17	20.03	0.044	29.5	0
1/30/23 19:45	1.033	56.74	9.07	-0.23	29.49	0
1/30/23 20:00	1.161	34.67	14.38	-0.137	29.49	0
1/30/23 20:15	0.878	68.76	39.81	0.392	29.49	0
1/30/23 20:30	0.576	99.6	2.976	0.419	29.49	0
1/30/23 20:45	0.732	108.4	11.7	0.432	29.49	0
1/30/23 21:00	0.937	137	5.641	-0.173	29.49	0
1/30/23 21:15	0.529	108.7	12.01	-0.309	29.49	0
1/30/23 21:30	0.402	94.6	28.43	-0.011	29.49	0
1/30/23 21:45	0.927	121	10.01	0.366	29.49	0
1/30/23 22:00	0.895	88	15.63	0.377	29.49	0
1/30/23 22:15	1.123	101.6	9.9	0.252	29.49	0
1/30/23 22:30	1.038	117.7	16.11	0.043	29.49	0
1/30/23 22:45	0.939	146.9	3.773	0.349	29.49	0
1/30/23 23:00	1.013	165.6	11.33	0.779	29.48	0
1/30/23 23:15	1.281	165.8	6.18	0.222	29.48	0
1/30/23 23:30	0.781	134.8	23.29	0.305	29.48	0
1/30/23 23:45	0.372	48.46	20.08	-0.034	29.48	0
1/31/23 0:00	1.158	54.59	10.98	-0.381	29.47	0
1/31/23 0:15	1.066	91.4	6.975	-0.191	29.47	0
1/31/23 0:30	1.037	100.1	5.886	0.093	29.46	0
1/31/23 0:45	0.87	105.2	3.151	0.125	29.46	0
1/31/23 1:00	0.849	64.95	29.99	0.279	29.46	0
1/31/23 1:15	0.599	121	34.44	0.479	29.45	0
1/31/23 1:30	0.565	136.3	28.26	0.648	29.45	0
1/31/23 1:45	0.773	134	23.36	0.575	29.45	0
1/31/23 2:00	1.339	141.5	14.57	0.367	29.45	0
1/31/23 2:15	1.484	146.7	9.77	0.355	29.45	0
1/31/23 2:30	2.158	149	7.271	0.324	29.45	0
1/31/23 2:45	1.122	126.9	13.63	0.432	29.46	0
1/31/23 3:00	0.938	119.9	8.2	0.234	29.46	0
1/31/23 3:15	1.305	137.6	4.374	0.279	29.46	0
1/31/23 3:30	1.298	128.3	2.952	0.365	29.45	0
1/31/23 3:45	1.079	128	7.248	0.068	29.45	0
1/31/23 4:00	0.934	104.5	5.17	-0.184	29.44	0
1/31/23 4:15	1.242	77.35	14.75	-0.049	29.44	0
1/31/23 4:30	1.276	87.6	6.876	-0.264	29.43	0
1/31/23 4:45	0.882	49.73	10.07	-0.187	29.43	0
1/31/23 5:00	0.395	52.28	4.412	-0.31	29.43	0
1/31/23 5:15	0.619	187.4	25.29	0.023	29.43	0
1/31/23 5:30	0.585	211.1	9.81	-0.016	29.43	0
1/31/23 5:45	0.424	200.9	8.74	-0.081	29.44	0
1/31/23 6:00	1.045	151.4	8.59	-0.248	29.43	0
1/31/23 6:15	1.136	146.7	3.478	-0.222	29.44	0
1/31/23 6:30	1.24	160.4	9.11	-0.235	29.44	0
1/31/23 6:45	1.403	160.4	8.19	-0.371	29.45	0
1/31/23 7:00	2.347	175	14.39	-0.495	29.45	0
1/31/23 7:15	2.849	191.1	11.17	-0.77	29.46	0
1/31/23 7:30	2.057	171.6	9.83	-0.448	29.46	0
1/31/23 7:45	2.023	195.9	8.15	-0.737	29.46	0
1/31/23 8:00	1.162	168.4	32.19	-1.217	29.46	0
1/31/23 8:15	1.043	165.1	14.63	-1.24	29.46	0
1/31/23 8:30	1.956	100.8	11.21	-1.204	29.45	0
1/31/23 8:45	2.861	113.9	7.801	-0.821	29.44	0
1/31/23 9:00	3.487	113	9.95	-0.475	29.43	0
1/31/23 9:15	4.021	132.1	13.5	-0.225	29.42	0
1/31/23 9:30	3.995	138.8	10.45	0.121	29.42	0
1/31/23 9:45	3.18	143.2	8.12	0.525	29.42	0
1/31/23 10:00	1.964	111.9	16.02	0.954	29.42	0
1/31/23 10:15	2.446	108.8	12.43	1.152	29.41	0
1/31/23 10:30	1.864	136.4	15.61	1.747	29.41	0
1/31/23 10:45	1.677	165.1	15.55	2.091	29.4	0
1/31/23 11:00	1.027	166.6	22.92	2.281	29.4	0

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/31/23 11:15	1.315	190.3	23.19	2.638	29.4	0
1/31/23 11:30	0.816	188.2	52.06	2.953	29.4	0
1/31/23 11:45	0.689	204.9	34.01	3.278	29.4	0
1/31/23 12:00	0.847	24.2	40.78	3.148	29.4	0
1/31/23 12:15	1.702	19.16	5.765	2.33	29.39	0
1/31/23 12:30	1.879	12.41	11.35	2.197	29.39	0
1/31/23 12:45	1.583	22.01	9.26	2.491	29.39	0
1/31/23 13:00	1.007	10.39	18.12	2.862	29.39	0
1/31/23 13:15	0.603	17.92	20.12	3.269	29.38	0
1/31/23 13:30	1.075	27.73	10.02	3.479	29.38	0
1/31/23 13:45	1.57	31.49	8.43	3.399	29.37	0
1/31/23 14:00	1.471	25.51	10.58	3.244	29.37	0
1/31/23 14:15	0.967	39.91	18.14	3.374	29.37	0
1/31/23 14:30	0.742	49.71	9.6	3.492	29.36	0
1/31/23 14:45	0.776	34.17	17.33	3.639	29.36	0
1/31/23 15:00	0.657	21.89	26.78	3.781	29.37	0
1/31/23 15:15	0.741	25.1	18.08	3.886	29.36	0
1/31/23 15:30	0.898	24.2	7.55	3.788	29.36	0
1/31/23 15:45	1.082	23.39	14.46	3.653	29.36	0
1/31/23 16:00	0.716	9.35	27.25	3.538	29.35	0
1/31/23 16:15	0.116	15.85	7.025	3.582	29.35	0
1/31/23 16:30	0.358	8.23	12.87	3.397	29.35	0
1/31/23 16:45	0.439	344.7	12.06	3.275	29.35	0
1/31/23 17:00	0.731	14.8	3.086	3.229	29.34	0
1/31/23 17:15	1.091	23.24	11.23	3.056	29.34	0
1/31/23 17:30	0.806	12.63	9.38	2.823	29.34	0
1/31/23 17:45	0.368	18.01	16.55	2.897	29.34	0
1/31/23 18:00	1.037	62.34	12.75	2.708	29.33	0
1/31/23 18:15	0.251	53.99	26.66	2.545	29.33	0
1/31/23 18:30	0.133	57.85	2.725	2.72	29.33	0
1/31/23 18:45	0.529	95.2	12.68	2.772	29.32	0
1/31/23 19:00	0.507	71.29	25.66	2.331	29.32	0
1/31/23 19:15	0.574	153.5	26.67	2.179	29.32	0
1/31/23 19:30	0.972	85.5	7.481	2.299	29.32	0
1/31/23 19:45	1.1	151.7	30.19	2.306	29.32	0
1/31/23 20:00	1.799	184.9	14.35	2.568	29.32	0
1/31/23 20:15	2.014	188.2	8.63	2.08	29.32	0
1/31/23 20:30	1.547	170.5	8.9	2.062	29.32	0
1/31/23 20:45	1.242	147.6	16.79	1.989	29.32	0
1/31/23 21:00	0.844	141.5	26.1	2.131	29.31	0
1/31/23 21:15	1.199	192.2	16.27	1.925	29.31	0
1/31/23 21:30	1.989	190.3	12.39	1.563	29.31	0
1/31/23 21:45	2.147	184.4	9.72	1.594	29.32	0
1/31/23 22:00	1.801	155.6	17.88	1.746	29.32	0
1/31/23 22:15	1.668	148.1	27.29	1.85	29.32	0
1/31/23 22:30	1.997	180.8	18.21	1.53	29.32	0
1/31/23 22:45	2.381	193.9	11.1	1.166	29.32	0
1/31/23 23:00	1.986	195.4	11.2	1.312	29.32	0
1/31/23 23:15	1.845	223.2	19.63	1.49	29.32	0
1/31/23 23:30	2.008	257.1	9.92	1.336	29.33	0
1/31/23 23:45	1.795	226.7	12.08	1.814	29.33	0
2/1/23 0:00	0.585	313.7	79.39	1.912	29.33	0
2/1/23 0:15	0.927	347.9	10.64	1.703	29.33	0
2/1/23 0:30	0.94	321.2	6.671	1.989	29.33	0
2/1/23 0:45	0.174	341	16	2.098	29.33	0
2/1/23 1:00	0.657	132.4	4.506	1.829	29.32	0
2/1/23 1:15	1.499	151.5	15.1	1.696	29.32	0
2/1/23 1:30	1.808	135.1	16.9	1.431	29.32	0
2/1/23 1:45	1.684	93.6	12.17	0.982	29.31	0
2/1/23 2:00	1.824	102.6	5.912	1.204	29.32	0
2/1/23 2:15	1.122	119.5	6.888	1.949	29.32	0
2/1/23 2:30	1.585	132.2	8.61	1.563	29.32	0
2/1/23 2:45	1.347	143.9	6.281	1.321	29.32	0
2/1/23 3:00	0.773	111.8	15.95	1.657	29.32	0
2/1/23 3:15	1.075	105.6	9.57	1.804	29.32	0
2/1/23 3:30	1.356	119.8	4.798	2.203	29.32	0
2/1/23 3:45	1.338	119	3.314	2.212	29.32	0
2/1/23 4:00	1.256	115.5	2.625	2.024	29.32	0
2/1/23 4:15	1.696	128.1	5.495	2.272	29.31	0
2/1/23 4:30	1.414	145.4	6.963	2.002	29.31	0
2/1/23 4:45	1.65	164.6	19.85	1.593	29.31	0
2/1/23 5:00	1.736	136.6	13.86	1.526	29.31	0
2/1/23 5:15	1.799	139.7	18.68	1.472	29.31	0
2/1/23 5:30	2.216	147.7	12.1	1.33	29.31	0
2/1/23 5:45	2.438	166.1	11.35	0.72	29.31	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/1/23 6:00	2.205	145	6.694	0.957	29.3	0
2/1/23 6:15	1.901	132.1	6.266	0.633	29.3	0
2/1/23 6:30	2.11	130.4	6.05	0.886	29.3	0
2/1/23 6:45	1.798	114.7	5.829	0.614	29.3	0
2/1/23 7:00	1.445	105	9.77	0.392	29.3	0
2/1/23 7:15	1.724	116.4	11.05	0.65	29.3	0
2/1/23 7:30	1.921	142.2	13.2	1.515	29.3	0
2/1/23 7:45	1.535	156.7	11.91	1.428	29.31	0
2/1/23 8:00	1.1	149.5	10.1	1.364	29.31	0
2/1/23 8:15	0.444	108.1	18.15	1.135	29.31	0
2/1/23 8:30	1.197	118.2	13.22	1.285	29.32	0
2/1/23 8:45	1.723	140.6	8.25	1.347	29.32	0
2/1/23 9:00	2.211	146.2	10.27	1.602	29.31	0
2/1/23 9:15	2.675	158.9	14.2	2.059	29.31	0
2/1/23 9:30	2.043	129.8	9.76	2.517	29.31	0
2/1/23 9:45	1.89	167.5	16.35	2.568	29.31	0
2/1/23 10:00	2.249	179.1	15.13	2.532	29.31	0
2/1/23 10:15	2.098	179.9	11.93	3.13	29.31	0
2/1/23 10:30	1.918	185.8	12.03	3.366	29.31	0
2/1/23 10:45	1.498	154.7	13.36	4.204	29.31	0
2/1/23 11:00	1.072	211.5	23.06	4.747	29.31	0
2/1/23 11:15	1.187	160.2	36.26	5.634	29.31	0
2/1/23 11:30	1.148	195	35.5	6.023	29.31	0
2/1/23 11:45	1.264	196.7	24.08	6.169	29.31	0
2/1/23 12:00	1.396	210	23.34	6.464	29.31	0
2/1/23 12:15	1.363	159.6	31.96	7.21	29.3	0
2/1/23 12:30	1.554	202.9	33.6	7.742	29.3	0
2/1/23 12:45	1.258	233	27.93	7.357	29.3	0
2/1/23 13:00	1.674	210.1	44.63	7.872	29.3	0
2/1/23 13:15	1.648	183.6	33.73	8.02	29.3	0
2/1/23 13:30	1.005	47.49	38.69	7.999	29.3	0
2/1/23 13:45	0.42	25.67	20.43	7.569	29.3	0
2/1/23 14:00	1.356	264.7	49.25	7.692	29.29	0
2/1/23 14:15	1.95	274.6	11.55	7.414	29.3	0
2/1/23 14:30	1.543	269.7	8.49	7.397	29.3	0
2/1/23 14:45	1.552	286	20.95	7.784	29.3	0
2/1/23 15:00	1.065	309.8	18.12	8.04	29.29	0
2/1/23 15:15	1.291	28.05	26.63	8.16	29.29	0
2/1/23 15:30	0.889	349	35.17	8.09	29.28	0
2/1/23 15:45	1.328	311	8.24	8.05	29.29	0
2/1/23 16:00	1.547	300	7.208	7.838	29.29	0
2/1/23 16:15	2.063	280.2	15.23	7.709	29.29	0
2/1/23 16:30	1.575	285.7	12.59	7.72	29.29	0
2/1/23 16:45	1.324	301.3	9.05	7.486	29.29	0
2/1/23 17:00	1.059	326.7	23.82	7.047	29.29	0
2/1/23 17:15	0.456	322.3	23.49	6.903	29.29	0
2/1/23 17:30	0.472	347.3	39.33	6.685	29.29	0
2/1/23 17:45	0.886	12.1	14.96	6.374	29.29	0
2/1/23 18:00	0.868	22.89	6.492	6.081	29.29	0
2/1/23 18:15	1.474	35.81	7.878	5.849	29.29	0
2/1/23 18:30	1.17	65.38	12.92	5.028	29.29	0
2/1/23 18:45	1.13	48.59	14.29	4.949	29.29	0
2/1/23 19:00	1.294	45.62	6.993	5.441	29.29	0
2/1/23 19:15	0.646	57.57	5.392	5.553	29.29	0
2/1/23 19:30	0.323	36.29	2.158	5.477	29.28	0
2/1/23 19:45	0.048	34.45	8.27	5.036	29.29	0
2/1/23 20:00	0.651	32.38	73.96	4.778	29.29	0
2/1/23 20:15	1.297	16.73	13.41	4.036	29.29	0
2/1/23 20:30	1.201	43.57	16.82	3.557	29.29	0
2/1/23 20:45	1.374	16.87	7.741	4.515	29.29	0
2/1/23 21:00	1.087	22	23.14	4.925	29.29	0
2/1/23 21:15	1.109	118.5	23.72	4.514	29.29	0
2/1/23 21:30	1.923	179.8	10.27	3.74	29.29	0
2/1/23 21:45	1.898	154.1	16.67	3.59	29.29	0
2/1/23 22:00	1.791	109.4	7.306	3.988	29.29	0
2/1/23 22:15	1.155	120.2	27.26	5.135	29.29	0
2/1/23 22:30	2.003	178.2	11.11	4.782	29.29	0
2/1/23 22:45	1.894	174.3	9.91	3.818	29.3	0
2/1/23 23:00	0.988	99.5	25.39	3.092	29.3	0
2/1/23 23:15	1.531	91.5	16.3	3.219	29.3	0
2/1/23 23:30	2.404	116.9	7.441	3.92	29.3	0
2/1/23 23:45	2.48	116.4	9.01	4.584	29.3	0
2/2/23 0:00	2.661	144.7	8.16	3.954	29.3	0
2/2/23 0:15	2.714	157.3	8.77	4.317	29.3	0
2/2/23 0:30	1.937	149.7	12.26	3.873	29.31	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/2/23 0:45	1.374	71	19.61	3.321	29.3	0
2/2/23 1:00	1.955	132.1	25.11	3.802	29.3	0
2/2/23 1:15	2.715	166.7	11.94	4.178	29.3	0
2/2/23 1:30	2.383	143.7	12.3	3.758	29.3	0
2/2/23 1:45	2.498	157.4	11.54	3.874	29.3	0
2/2/23 2:00	2.368	136.9	15.93	3.868	29.29	0
2/2/23 2:15	1.321	109.3	19.41	3.295	29.29	0
2/2/23 2:30	2.002	134.8	12.23	3.773	29.29	0
2/2/23 2:45	2.304	155.8	7.085	4.259	29.29	0
2/2/23 3:00	2.214	168.1	8.91	4.077	29.29	0
2/2/23 3:15	2.623	182.4	8.13	3.557	29.28	0
2/2/23 3:30	2.46	188.1	10.49	3.289	29.29	0
2/2/23 3:45	2.404	202.5	6.16	3.284	29.28	0
2/2/23 4:00	2.405	198.3	4.076	2.925	29.28	0
2/2/23 4:15	2.239	203.6	7.895	3.015	29.28	0
2/2/23 4:30	3.331	236.8	12.13	2.739	29.29	0
2/2/23 4:45	3.069	265.2	11.5	2.57	29.3	0
2/2/23 5:00	0.927	296.8	36.1	2.044	29.31	0
2/2/23 5:15	1.634	78.2	13.26	2.227	29.31	0
2/2/23 5:30	1.968	102	12.63	2.234	29.31	0
2/2/23 5:45	2.969	126.5	10.69	2.73	29.31	0
2/2/23 6:00	2.844	112.5	12.46	2.885	29.32	0
2/2/23 6:15	3.185	104.1	7.599	2.76	29.32	0
2/2/23 6:30	3.033	105	6.614	3.088	29.31	0
2/2/23 6:45	2.364	123.8	12.13	3.786	29.31	0
2/2/23 7:00	2.171	138.6	5.731	4.041	29.3	0
2/2/23 7:15	1.787	143.5	9.69	3.946	29.3	0
2/2/23 7:30	1.054	110.6	18.32	4.187	29.3	0
2/2/23 7:45	0.903	70.84	24.12	3.797	29.3	0
2/2/23 8:00	1.132	102.7	10.43	4.096	29.31	0
2/2/23 8:15	1.441	146.8	7.639	4.503	29.31	0
2/2/23 8:30	0.821	134.8	14.06	4.844	29.31	0
2/2/23 8:45	0.483	45.33	25.36	4.677	29.31	0
2/2/23 9:00	0.112	66.61	35.32	5.67	29.32	0
2/2/23 9:15	0.295	57.03	26.74	6.577	29.32	0
2/2/23 9:30	0.598	104.3	22.92	6.783	29.33	0
2/2/23 9:45	0.804	86.1	14.37	7.043	29.32	0
2/2/23 10:00	1.009	52.46	17.07	7.129	29.32	0
2/2/23 10:15	0.735	84.8	19.42	7.746	29.32	0
2/2/23 10:30	0.334	301.1	64.86	7.886	29.33	0
2/2/23 10:45	0.45	287.4	58.53	7.866	29.33	0
2/2/23 11:00	0.992	0.135	22.26	7.853	29.33	0
2/2/23 11:15	1.176	294.3	28.62	8.64	29.33	0
2/2/23 11:30	1.978	305.8	23.32	8.79	29.33	0
2/2/23 11:45	1.109	319.3	22.27	8.98	29.33	0
2/2/23 12:00	0.823	338.3	24.33	9.21	29.33	0
2/2/23 12:15	1.102	18.83	35.63	9.58	29.32	0
2/2/23 12:30	0.816	40.32	22.46	9.67	29.32	0
2/2/23 12:45	0.687	355.2	36.59	10.39	29.31	0
2/2/23 13:00	0.592	67.09	49.17	10.98	29.31	0
2/2/23 13:15	0.406	271.2	63	11.69	29.3	0
2/2/23 13:30	0.691	231.1	26.2	11.68	29.3	0
2/2/23 13:45	1.143	211.7	25.14	11.31	29.29	0
2/2/23 14:00	1.541	253.3	23.4	11.78	29.29	0
2/2/23 14:15	2.318	260.5	14.99	11.83	29.29	0
2/2/23 14:30	2.8	262.2	11.55	11.55	29.28	0
2/2/23 14:45	2.125	246.6	19.86	11.43	29.28	0
2/2/23 15:00	2.064	285.3	19.46	11.63	29.28	0
2/2/23 15:15	1.685	294.1	13.94	10.99	29.28	0
2/2/23 15:30	1.87	296	17.61	11.43	29.28	0
2/2/23 15:45	3.109	309	6.619	10.95	29.28	0
2/2/23 16:00	2.639	292.9	6.88	10.59	29.28	0
2/2/23 16:15	2.747	287.7	4.467	10.31	29.27	0
2/2/23 16:30	2.362	301.4	8.79	9.8	29.27	0
2/2/23 16:45	2.563	278.5	11.66	9.39	29.27	0
2/2/23 17:00	2.435	270.2	6.266	9.08	29.27	0
2/2/23 17:15	2.29	297.2	5.738	8.98	29.27	0
2/2/23 17:30	1.703	340.3	29.07	9.04	29.27	0
2/2/23 17:45	1.231	22.85	7.803	8.5	29.26	0
2/2/23 18:00	1.593	39.76	9.97	8.02	29.26	0
2/2/23 18:15	1.669	55.77	7.114	7.759	29.26	0
2/2/23 18:30	1.313	68.58	7.565	7.255	29.26	0
2/2/23 18:45	1.724	96	9.59	6.82	29.26	0
2/2/23 19:00	1.665	99.7	7.815	6.563	29.26	0
2/2/23 19:15	2.102	83.3	7.723	6.446	29.26	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/2/23 19:30	2.001	93.1	12.59	6.644	29.25	0
2/2/23 19:45	1.777	105.3	13.2	6.869	29.25	0
2/2/23 20:00	2.091	137.1	6.848	7.125	29.25	0
2/2/23 20:15	2.406	139.9	12.69	7.448	29.26	0
2/2/23 20:30	2.242	99.1	13.91	7.003	29.26	0
2/2/23 20:45	2.858	127.3	19.08	6.585	29.26	0
2/2/23 21:00	3.893	89.5	15.87	6.489	29.23	0
2/2/23 21:15	1.646	105.6	80.5	6.814	29.23	0
2/2/23 21:30	1.126	52.8	60.35	7.674	29.22	0
2/2/23 21:45	2.694	23.59	12.95	6.454	29.22	0
2/2/23 22:00	2.908	30.32	10.45	4.934	29.21	0
2/2/23 22:15	3.824	30.38	10.08	4.779	29.2	0
2/2/23 22:30	4.223	33.12	15.08	5.708	29.19	0
2/2/23 22:45	2.762	34.4	14.23	6.043	29.18	0
2/2/23 23:00	1.451	51.84	29.15	6.425	29.17	0
2/2/23 23:15	1.508	41.11	28.44	6.215	29.16	0
2/2/23 23:30	1.034	86.1	26.93	6.447	29.16	0
2/2/23 23:45	1.534	119.5	26.9	7.15	29.15	0
2/3/23 0:00	2.061	108.6	8.23	7.953	29.14	0
2/3/23 0:15	2.254	123.2	10.21	8.04	29.13	0
2/3/23 0:30	1.892	93	15.61	7.808	29.12	0
2/3/23 0:45	2.307	139.2	16.36	7.873	29.12	0
2/3/23 1:00	2.175	103.1	19.96	8.95	29.11	0
2/3/23 1:15	1.531	64.89	27.64	8.41	29.1	0
2/3/23 1:30	1.585	123.8	42.91	8.84	29.09	0
2/3/23 1:45	2.268	94.5	32.04	8.59	29.09	0
2/3/23 2:00	2.63	104.7	31.58	8.3	29.09	0
2/3/23 2:15	1.695	141.2	30.57	8.4	29.09	0
2/3/23 2:30	1.452	152.5	50.17	8.98	29.08	0
2/3/23 2:45	3.043	182.4	23.82	9.49	29.08	0
2/3/23 3:00	2.675	128.5	37.21	8.87	29.07	0
2/3/23 3:15	3.572	95.9	14.84	8.19	29.06	0
2/3/23 3:30	3.54	123.8	10.74	9.55	29.05	0
2/3/23 3:45	3.657	121.7	10.89	9.75	29.04	0
2/3/23 4:00	4.573	125.4	14.05	9.54	29.03	0
2/3/23 4:15	4.084	114	14.07	9.39	29.02	0
2/3/23 4:30	3.741	116.2	15.51	9.33	29.02	0
2/3/23 4:45	2.947	111.5	19.05	9.48	29.01	0
2/3/23 5:00	3.48	125.7	16.77	9.89	29.01	0
2/3/23 5:15	3.602	113.9	19.38	9.83	29	0
2/3/23 5:30	4.321	112.8	16.71	10.02	28.99	0
2/3/23 5:45	2.665	94.3	29.4	9.85	28.99	0
2/3/23 6:00	1.453	9.07	86.4	9.56	28.99	0
2/3/23 6:15	4.88	230.1	22.46	8.65	28.99	0
2/3/23 6:30	3.876	168.5	20.17	9.58	28.99	0
2/3/23 6:45	3.832	142.9	15.75	9.05	28.98	0
2/3/23 7:00	3.608	167.3	35.7	7.825	28.99	0
2/3/23 7:15	4.464	195.4	12.5	7.32	28.99	0
2/3/23 7:30	3.88	181.9	12.87	6.394	28.99	0
2/3/23 7:45	4.099	162.6	13.24	6.493	28.99	0
2/3/23 8:00	7.667	142.8	12.89	8.13	29	0
2/3/23 8:15	4.516	119.8	14.9	8.7	29	0
2/3/23 8:30	3.42	171.9	26.95	8.44	29.01	0
2/3/23 8:45	3.693	213.6	13.51	6.16	29.02	0
2/3/23 9:00	4.228	193.3	5.572	5.163	29.02	0
2/3/23 9:15	4.066	181.9	12.28	5.511	29.03	0
2/3/23 9:30	2.364	133.8	24	5.851	29.03	0
2/3/23 9:45	3.64	115.1	13.89	7.149	29.02	0
2/3/23 10:00	4.241	135.8	9.91	8.53	29.02	0
2/3/23 10:15	5.01	138.9	13.59	9.21	29.01	0
2/3/23 10:30	5.724	139	10.29	9.51	29.01	0
2/3/23 10:45	4.805	136.1	12.87	9.94	29.02	0
2/3/23 11:00	4.05	140.9	16.94	10.26	29.02	0
2/3/23 11:15	4.472	149.5	10.08	10.06	29.03	0
2/3/23 11:30	3.79	156.2	18.5	9.93	29.04	0
2/3/23 11:45	3.826	184.9	24.34	9.46	29.05	0
2/3/23 12:00	3.051	159.6	24.43	9.2	29.06	0
2/3/23 12:15	4.116	166.7	10.67	8.95	29.07	0
2/3/23 12:30	5.225	153.1	12.88	8.54	29.06	0
2/3/23 12:45	8.12	160.8	12.41	8.79	29.05	0
2/3/23 13:00	7.461	154.1	11.2	9.05	29.05	0
2/3/23 13:15	9.14	159.3	10.77	9.7	29.04	0
2/3/23 13:30	11.08	163.1	10.54	9.99	29.03	0
2/3/23 13:45	9.56	166.6	10.41	9.93	29.03	0
2/3/23 14:00	9.62	173.6	9.51	9.93	29.04	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/3/23 14:15	8.51	177.6	10.43	9.95	29.05	0
2/3/23 14:30	9.16	178.5	12.56	9.9	29.05	0
2/3/23 14:45	10.48	179.1	11.27	9.4	29.06	0
2/3/23 15:00	10.65	179.8	8.23	9.06	29.06	0.01
2/3/23 15:15	9.66	176.8	10.01	9.19	29.06	0
2/3/23 15:30	9.3	185.8	10.54	9.21	29.07	0
2/3/23 15:45	9.87	180.1	10.49	9.25	29.08	0
2/3/23 16:00	9.23	179.4	9.44	9.2	29.08	0
2/3/23 16:15	8.68	181	10.55	8.9	29.09	0
2/3/23 16:30	7.601	177.4	9.18	8.6	29.1	0
2/3/23 16:45	7.734	173.1	9.52	8.6	29.11	0
2/3/23 17:00	7.801	181.3	9.79	8.75	29.11	0
2/3/23 17:15	7.794	180.3	10.88	8.68	29.12	0.01
2/3/23 17:30	7.721	194.1	9.78	8.47	29.13	0
2/3/23 17:45	6.521	193.3	9.63	8.24	29.14	0
2/3/23 18:00	7.302	185.7	11.36	8.52	29.14	0
2/3/23 18:15	8.43	182	10.49	8.59	29.15	0
2/3/23 18:30	7.201	179.5	10.7	8.54	29.15	0
2/3/23 18:45	8.43	182.1	11.2	8.61	29.15	0
2/3/23 19:00	7.34	178.1	11.22	8.58	29.16	0
2/3/23 19:15	8.16	187.4	14.47	8.54	29.17	0
2/3/23 19:30	7.067	210.3	8.44	8.09	29.18	0.01
2/3/23 19:45	4.98	213.8	6.059	7.749	29.18	0
2/3/23 20:00	4.519	201	14.94	7.755	29.19	0
2/3/23 20:15	5.716	202.7	8.66	8.03	29.19	0
2/3/23 20:30	4.854	210.9	6.238	7.766	29.2	0.02
2/3/23 20:45	4.57	223.5	12.76	7.099	29.21	0.01
2/3/23 21:00	5.216	198	10.76	6.649	29.21	0.02
2/3/23 21:15	4.519	183.1	11.47	6.715	29.21	0
2/3/23 21:30	3.891	163.9	7.298	6.568	29.22	0
2/3/23 21:45	4.827	166.5	6.895	6.848	29.22	0
2/3/23 22:00	4.529	167.1	7.319	7.112	29.22	0
2/3/23 22:15	3.59	160.4	7.335	6.957	29.22	0
2/3/23 22:30	3.228	169.1	32.67	7.116	29.23	0.01
2/3/23 22:45	1.975	220.9	60.98	6.423	29.23	0
2/3/23 23:00	1.824	114.5	9.24	6.522	29.22	0
2/3/23 23:15	2.222	111.7	10.04	6.879	29.22	0
2/3/23 23:30	2.707	113.6	10.17	7.202	29.22	0
2/3/23 23:45	2.929	126.9	8.48	7.379	29.22	0
2/4/23 0:00	2.849	126.3	7.978	7.531	29.23	0
2/4/23 0:15	2.988	135.4	6.963	7.35	29.23	0
2/4/23 0:30	2.524	139.2	7.629	7.335	29.23	0
2/4/23 0:45	3.258	157.6	11.93	7.358	29.23	0
2/4/23 1:00	2.333	160.1	6.408	7.309	29.23	0
2/4/23 1:15	1.84	137.2	7.601	7.13	29.23	0
2/4/23 1:30	3.511	149.2	7.439	7.398	29.23	0
2/4/23 1:45	3.597	158.7	10.35	7.312	29.24	0
2/4/23 2:00	4.019	171.3	7.814	7.407	29.24	0
2/4/23 2:15	3.657	174.4	5.981	7.141	29.24	0
2/4/23 2:30	2.806	156.8	13.15	6.899	29.24	0.01
2/4/23 2:45	2.798	140.9	7.699	6.784	29.24	0
2/4/23 3:00	2.686	144.2	7.404	6.783	29.24	0
2/4/23 3:15	2.416	144.3	8.52	6.63	29.24	0
2/4/23 3:30	2.095	133.1	10.17	6.489	29.24	0
2/4/23 3:45	1.471	110.2	10.06	6.424	29.24	0
2/4/23 4:00	1.689	110.5	9.7	6.496	29.24	0
2/4/23 4:15	2.322	107.4	5.352	6.638	29.23	0.01
2/4/23 4:30	2.565	109.6	7.741	6.77	29.23	0
2/4/23 4:45	3.078	123.3	23.32	6.908	29.22	0
2/4/23 5:00	2.471	138.7	9.93	6.944	29.22	0
2/4/23 5:15	1.932	137.8	18.76	6.858	29.22	0
2/4/23 5:30	2.027	107.2	14.18	6.838	29.22	0
2/4/23 5:45	2.042	83.3	8.36	6.693	29.21	0
2/4/23 6:00	2.13	75.47	8.51	6.762	29.21	0.01
2/4/23 6:15	2.211	78.6	10.45	7.024	29.2	0
2/4/23 6:30	2.382	67.53	11.15	7.363	29.2	0
2/4/23 6:45	1.891	88.4	11.4	7.469	29.19	0
2/4/23 7:00	1.606	119	39.21	7.105	29.19	0
2/4/23 7:15	1.774	149.8	24.38	6.569	29.19	0
2/4/23 7:30	1.972	139.8	14.42	6.527	29.19	0
2/4/23 7:45	2.07	139.4	22.77	6.516	29.19	0
2/4/23 8:00	2.369	128.1	11.55	6.789	29.19	0
2/4/23 8:15	2.143	143.6	13.33	7.016	29.19	0
2/4/23 8:30	3.322	133.7	11.76	7.295	29.19	0
2/4/23 8:45	2.877	131.6	9.17	7.586	29.19	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/4/23 9:00	2.935	126.2	10	7.827	29.19	0
2/4/23 9:15	2.92	132.5	14.41	8.27	29.19	0
2/4/23 9:30	2.823	148.8	16.18	8.12	29.19	0
2/4/23 9:45	3.027	142.5	12.13	8.15	29.19	0
2/4/23 10:00	2.506	130.2	10.58	8.46	29.19	0
2/4/23 10:15	2.453	120.4	13.96	8.81	29.19	0
2/4/23 10:30	3.497	117.7	10.48	9.38	29.19	0
2/4/23 10:45	4.087	123	9.9	9.58	29.19	0
2/4/23 11:00	4.142	136.1	11.04	9.72	29.19	0
2/4/23 11:15	4.289	125	10.06	10.22	29.19	0
2/4/23 11:30	3.558	133.1	11.25	10.17	29.19	0
2/4/23 11:45	3.195	139.3	12.56	10.08	29.18	0
2/4/23 12:00	2.619	146.5	11.03	10.44	29.18	0
2/4/23 12:15	2.795	154.6	10.94	10.6	29.17	0
2/4/23 12:30	2.135	154.6	11.85	10.63	29.17	0
2/4/23 12:45	1.949	157.1	12.28	10.68	29.16	0
2/4/23 13:00	1.981	161.7	12.79	10.68	29.15	0
2/4/23 13:15	2.316	148.1	14.6	10.64	29.14	0
2/4/23 13:30	3.128	134.9	12.87	10.57	29.14	0
2/4/23 13:45	3.256	138.4	16.45	10.64	29.13	0
2/4/23 14:00	2.921	142.8	11.55	10.51	29.12	0
2/4/23 14:15	1.862	122	16.77	10.35	29.11	0
2/4/23 14:30	2.076	100.9	20.52	10.28	29.11	0
2/4/23 14:45	3.755	109.2	13.3	10.38	29.1	0
2/4/23 15:00	3.414	97.4	11.51	10.3	29.09	0
2/4/23 15:15	2.08	102.8	13.9	10.13	29.09	0
2/4/23 15:30	3.161	122.9	11.88	9.95	29.08	0
2/4/23 15:45	3.434	117.8	12	9.89	29.08	0
2/4/23 16:00	4.256	141.7	13.1	9.72	29.08	0
2/4/23 16:15	4.095	145	8.79	9.48	29.07	0
2/4/23 16:30	4.235	136.3	7.599	9.32	29.07	0
2/4/23 16:45	3.742	128.2	7.754	9.2	29.06	0
2/4/23 17:00	3.714	135.9	7.637	8.99	29.06	0
2/4/23 17:15	4.339	134.3	8.69	8.74	29.07	0
2/4/23 17:30	3.894	118.6	8.67	8.32	29.07	0
2/4/23 17:45	3.715	104.2	10.75	7.856	29.06	0
2/4/23 18:00	3.432	107.7	11.11	7.62	29.06	0
2/4/23 18:15	3.739	108.1	10.93	7.71	29.05	0.01
2/4/23 18:30	2.579	99.7	11.65	7.445	29.05	0.01
2/4/23 18:45	2.667	83.7	14.94	7.46	29.04	0
2/4/23 19:00	2.329	51.85	11.06	7.445	29.04	0
2/4/23 19:15	0.986	102.5	62.44	7.277	29.04	0
2/4/23 19:30	2.445	208.2	12.42	7.059	29.04	0.01
2/4/23 19:45	2.579	214.3	6.805	6.761	29.03	0
2/4/23 20:00	3.108	197.5	21.66	6.638	29.04	0.01
2/4/23 20:15	2.714	130.8	17.75	6.59	29.03	0.01
2/4/23 20:30	2.103	81.2	10.98	6.28	29.03	0
2/4/23 20:45	2.003	76.12	11.41	6.16	29.02	0.01
2/4/23 21:00	2.263	72.52	15.37	6.284	29.02	0.01
2/4/23 21:15	2.061	34.49	7.692	6.105	29	0
2/4/23 21:30	2.174	31.9	9.24	6.036	29	0
2/4/23 21:45	2.707	23.34	5.903	5.992	28.98	0
2/4/23 22:00	3.099	20.36	6.755	5.99	28.97	0
2/4/23 22:15	2.781	27.34	6.647	6.062	28.96	0
2/4/23 22:30	2.015	39.84	9.87	5.934	28.96	0
2/4/23 22:45	2.066	47.34	8.39	5.891	28.95	0
2/4/23 23:00	2.58	55.27	12.18	5.745	28.93	0
2/4/23 23:15	2.659	58.16	14.47	5.86	28.91	0
2/4/23 23:30	3.022	106.1	14.47	6.396	28.9	0
2/4/23 23:45	5.265	123.5	8.87	7.274	28.9	0
2/5/23 0:00	4.759	99.2	13.32	7.207	28.89	0
2/5/23 0:15	3.783	97.7	10.9	7.032	28.88	0
2/5/23 0:30	3.788	91.6	16.68	7.478	28.87	0
2/5/23 0:45	3.571	42.41	14.32	6.913	28.84	0
2/5/23 1:00	2.001	59.21	18.69	7.457	28.84	0
2/5/23 1:15	2.139	81.5	18.63	7.933	28.84	0
2/5/23 1:30	2.671	115.3	19.51	7.882	28.84	0
2/5/23 1:45	3.312	98.9	13.49	8.16	28.83	0
2/5/23 2:00	3.978	93.5	12.97	8.71	28.83	0
2/5/23 2:15	3.346	100.7	14.46	8.94	28.82	0
2/5/23 2:30	2.778	81.2	18.97	9.32	28.82	0
2/5/23 2:45	3.69	84.7	13.42	9.67	28.82	0
2/5/23 3:00	2.541	228.5	40.9	8.09	28.82	0
2/5/23 3:15	3.357	240.7	7.095	6.735	28.82	0
2/5/23 3:30	1.926	280.2	12.47	6.526	28.82	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/5/23 3:45	1.695	296.8	6.579	6.653	28.81	0
2/5/23 4:00	1.41	279.5	18.23	6.921	28.82	0
2/5/23 4:15	1.259	240.3	19.55	7.304	28.82	0
2/5/23 4:30	0.825	131	23.69	7.79	28.82	0
2/5/23 4:45	0.865	163.5	19.74	7.657	28.82	0
2/5/23 5:00	1.559	149	9.75	7.614	28.82	0
2/5/23 5:15	1.888	175.6	14.59	7.516	28.83	0
2/5/23 5:30	2.373	172.3	11.38	7.53	28.83	0
2/5/23 5:45	1.354	158.4	9.25	7.593	28.84	0
2/5/23 6:00	0.571	160.6	44.53	7.038	28.84	0
2/5/23 6:15	0.588	354	32.32	6.789	28.84	0
2/5/23 6:30	1.009	124.2	30.14	6.948	28.85	0
2/5/23 6:45	0.956	70.97	24.12	7.104	28.86	0
2/5/23 7:00	0.491	90.7	33.21	6.956	28.87	0
2/5/23 7:15	1.524	160.2	12.52	7.143	28.88	0
2/5/23 7:30	2.408	167.7	5.357	6.394	28.89	0
2/5/23 7:45	2.5	173.9	11.64	5.753	28.9	0
2/5/23 8:00	2.248	159.8	10.42	5.485	28.91	0
2/5/23 8:15	2.581	164	10.43	5.361	28.92	0
2/5/23 8:30	3.179	160.8	12.32	5.421	28.93	0
2/5/23 8:45	3.285	180.1	6.469	5.379	28.94	0.01
2/5/23 9:00	2.971	155.8	11.75	5.341	28.95	0
2/5/23 9:15	2.379	168.8	13.77	5.357	28.96	0
2/5/23 9:30	2.733	175.7	6.961	5.338	28.98	0.01
2/5/23 9:45	2.684	147.5	7.263	5.381	28.98	0
2/5/23 10:00	2.581	150.8	7.474	5.389	29	0
2/5/23 10:15	2.783	172.9	10.35	5.426	29.01	0
2/5/23 10:30	3.168	168.9	9.15	5.495	29.02	0.01
2/5/23 10:45	3.117	145.6	9.32	5.661	29.02	0
2/5/23 11:00	3.202	145	6.331	5.751	29.03	0
2/5/23 11:15	3.168	143.2	8.53	5.829	29.03	0.01
2/5/23 11:30	2.402	132.9	9.68	5.951	29.04	0
2/5/23 11:45	2.144	125.7	10.06	6.064	29.04	0.01
2/5/23 12:00	1.722	130.1	11.61	6.206	29.04	0
2/5/23 12:15	1.207	132.1	11.98	6.288	29.04	0.01
2/5/23 12:30	2.029	128.8	12.04	6.309	29.05	0
2/5/23 12:45	1.835	119.2	9.59	6.341	29.05	0.01
2/5/23 13:00	1.201	86.7	10.13	6.413	29.06	0
2/5/23 13:15	0.561	56.71	13.44	6.44	29.06	0
2/5/23 13:30	0.681	90.7	13.56	6.45	29.07	0.01
2/5/23 13:45	0.515	102.9	17.32	6.56	29.07	0
2/5/23 14:00	0.64	113	21.95	6.606	29.08	0.01
2/5/23 14:15	0.978	136.2	23.2	6.74	29.08	0.01
2/5/23 14:30	1.903	160.4	21.8	6.834	29.09	0.03
2/5/23 14:45	2.728	194.8	24.83	6.847	29.09	0
2/5/23 15:00	1.505	206.5	9.87	6.92	29.1	0
2/5/23 15:15	1.162	239.5	13.3	6.931	29.11	0.01
2/5/23 15:30	1.024	268.5	13.81	6.938	29.12	0.01
2/5/23 15:45	1.029	220.7	28.81	6.966	29.13	0.03
2/5/23 16:00	1.306	192	21.24	6.981	29.13	0.01
2/5/23 16:15	1.72	198.7	15.03	6.945	29.14	0.01
2/5/23 16:30	2.409	209.2	9.83	6.998	29.15	0
2/5/23 16:45	3.14	210.7	8.53	6.984	29.16	0
2/5/23 17:00	2.706	207.9	6.827	6.971	29.17	0
2/5/23 17:15	1.995	177.8	9.88	6.986	29.17	0
2/5/23 17:30	2.11	181.6	8.22	6.994	29.18	0
2/5/23 17:45	2.567	184.7	7.893	6.984	29.19	0
2/5/23 18:00	2.441	187.3	8.04	6.963	29.2	0
2/5/23 18:15	1.572	175.2	8.84	6.967	29.2	0
2/5/23 18:30	1.614	191.8	12.79	6.969	29.21	0
2/5/23 18:45	2.054	199.9	9.19	6.976	29.22	0
2/5/23 19:00	5.357	216.7	9.41	6.797	29.23	0.02
2/5/23 19:15	5.464	227.5	8.54	6.682	29.24	0
2/5/23 19:30	6.104	223.2	7.503	6.445	29.25	0
2/5/23 19:45	5.782	220.1	8.88	6.174	29.27	0
2/5/23 20:00	3.759	217.4	10.67	6.028	29.28	0.01
2/5/23 20:15	0.978	182.6	61.16	5.92	29.29	0.01
2/5/23 20:30	1.287	204.3	19.83	5.846	29.3	0.03
2/5/23 20:45	1.257	115.2	28.52	5.831	29.31	0.03
2/5/23 21:00	1.994	164.8	22.45	5.69	29.32	0.02
2/5/23 21:15	1.824	114.6	32.9	5.614	29.34	0.01
2/5/23 21:30	0.929	184.4	64.9	5.598	29.35	0
2/5/23 21:45	1.986	176.6	19.04	5.594	29.36	0
2/5/23 22:00	1.375	143.9	31.7	5.546	29.37	0
2/5/23 22:15	1.153	138	26.95	5.366	29.38	0.01

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/5/23 22:30	1.752	144.9	16.43	5.298	29.39	0.01
2/5/23 22:45	2.097	165.7	28.56	5.272	29.4	0
2/5/23 23:00	1.342	150.2	23.13	5.182	29.41	0
2/5/23 23:15	0.973	144.2	34.79	5.092	29.42	0
2/5/23 23:30	1.252	77.21	16.89	5.033	29.43	0
2/5/23 23:45	1.588	110.7	16.64	4.922	29.44	0
2/6/23 0:00	2.298	134.9	21.2	4.908	29.45	0
2/6/23 0:15	3.034	141.3	8.82	4.872	29.45	0
2/6/23 0:30	2.961	132.9	10.07	4.797	29.46	0
2/6/23 0:45	2.674	128	8.57	4.755	29.46	0
2/6/23 1:00	3.472	128.4	8.17	4.686	29.46	0
2/6/23 1:15	3.306	135.1	9.72	4.634	29.47	0
2/6/23 1:30	3.54	139.4	9.71	4.586	29.48	0
2/6/23 1:45	3.076	138	9.93	4.5	29.49	0
2/6/23 2:00	2.474	131.9	9.5	4.46	29.5	0
2/6/23 2:15	2.636	127.3	9.73	4.45	29.5	0
2/6/23 2:30	2.685	129.5	8.86	4.46	29.51	0
2/6/23 2:45	3.196	138.8	6.7	4.526	29.52	0
2/6/23 3:00	3.416	146.2	8.61	4.579	29.52	0
2/6/23 3:15	2.542	131.4	8.72	4.593	29.52	0
2/6/23 3:30	2.645	131.7	8.93	4.556	29.52	0
2/6/23 3:45	2.465	135.7	11.79	4.541	29.53	0
2/6/23 4:00	2.275	128.8	8.09	4.594	29.53	0
2/6/23 4:15	2.536	128.6	8.64	4.619	29.53	0
2/6/23 4:30	2.818	132.8	8.68	4.735	29.53	0
2/6/23 4:45	3.392	137.4	6.106	4.693	29.53	0
2/6/23 5:00	3.041	137	8.81	4.723	29.53	0
2/6/23 5:15	3.06	128.6	8.31	4.625	29.53	0
2/6/23 5:30	3.731	137.1	10.34	4.34	29.53	0.01
2/6/23 5:45	3.272	127.7	9.69	4.009	29.54	0
2/6/23 6:00	2.383	112.7	8.05	3.899	29.54	0.01
2/6/23 6:15	2.213	113.3	7.513	3.908	29.54	0
2/6/23 6:30	2.677	115	9.13	3.985	29.54	0
2/6/23 6:45	3.047	124	7.843	4.145	29.54	0
2/6/23 7:00	2.668	130.6	9.48	4.127	29.55	0
2/6/23 7:15	2.341	125.3	10.18	4.118	29.55	0
2/6/23 7:30	2.811	132.9	8.7	4.189	29.55	0
2/6/23 7:45	3.52	141.5	8.63	4.312	29.55	0
2/6/23 8:00	4.168	146.1	9.88	4.523	29.55	0
2/6/23 8:15	3.585	149	10.22	4.716	29.55	0
2/6/23 8:30	3.696	153.4	10.52	5.04	29.55	0
2/6/23 8:45	3.471	155.1	10.2	5.468	29.56	0
2/6/23 9:00	4.669	162	11.37	5.743	29.56	0
2/6/23 9:15	4.279	163.3	10.45	6.175	29.56	0
2/6/23 9:30	5.673	168	9.3	6.295	29.56	0
2/6/23 9:45	5.747	170.2	8.06	6.183	29.56	0
2/6/23 10:00	5.026	163.1	9.44	6.279	29.57	0
2/6/23 10:15	4.568	165.1	11.04	6.509	29.57	0
2/6/23 10:30	5.131	163.8	10.15	6.552	29.56	0
2/6/23 10:45	4.75	165.3	11.54	6.535	29.57	0
2/6/23 11:00	5.198	170.7	10.11	6.663	29.57	0
2/6/23 11:15	6.116	176.2	10.88	6.774	29.56	0
2/6/23 11:30	5.697	177.9	9.12	6.938	29.56	0
2/6/23 11:45	6.154	177.7	9.48	7.298	29.56	0
2/6/23 12:00	5.85	184.6	10.42	7.507	29.56	0
2/6/23 12:15	6.284	186.5	10.63	7.695	29.55	0
2/6/23 12:30	6.719	188.1	9.98	7.799	29.55	0
2/6/23 12:45	6.781	186.9	8.92	7.841	29.55	0
2/6/23 13:00	5.92	186.1	9.72	7.748	29.55	0
2/6/23 13:15	6.564	182.8	10.24	7.832	29.55	0
2/6/23 13:30	6.263	184.9	8.26	7.899	29.55	0
2/6/23 13:45	6.81	185.9	10.98	7.806	29.55	0
2/6/23 14:00	6.175	182.3	9.46	7.721	29.55	0
2/6/23 14:15	6.704	176.7	7.857	7.676	29.54	0
2/6/23 14:30	7.385	175.6	9.7	7.565	29.54	0
2/6/23 14:45	6.753	176.7	9.52	7.609	29.54	0
2/6/23 15:00	6.625	179.4	10.12	7.705	29.54	0
2/6/23 15:15	7.144	185.4	11.36	7.703	29.54	0
2/6/23 15:30	6.827	185	8.99	7.458	29.54	0.01
2/6/23 15:45	7.139	191.7	8.46	7.184	29.54	0
2/6/23 16:00	6.123	187.8	8.56	6.751	29.54	0.01
2/6/23 16:15	5.802	177.6	10.56	6.478	29.54	0.01
2/6/23 16:30	5.298	173.5	6.915	6.37	29.54	0
2/6/23 16:45	5.261	169	8.82	6.51	29.53	0
2/6/23 17:00	4.877	167.9	7.243	6.642	29.54	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/6/23 17:15	3.811	148.8	6.61	6.416	29.54	0
2/6/23 17:30	4.414	147.9	4.988	6.412	29.53	0
2/6/23 17:45	4.376	142.9	5.82	6.414	29.53	0
2/6/23 18:00	4.679	151.1	7.228	6.438	29.52	0
2/6/23 18:15	5.103	160.9	7.087	6.407	29.51	0
2/6/23 18:30	5.625	169.3	6.459	6.69	29.51	0
2/6/23 18:45	4.619	168.7	8.06	6.71	29.51	0
2/6/23 19:00	4.281	153.8	7.726	6.496	29.5	0
2/6/23 19:15	4.246	155.8	7.415	6.362	29.5	0
2/6/23 19:30	3.957	149.4	9.27	6.438	29.5	0
2/6/23 19:45	3.193	133.6	8.5	6.419	29.5	0
2/6/23 20:00	2.843	129.6	7.95	6.461	29.5	0
2/6/23 20:15	3.094	135.1	6.868	6.458	29.49	0
2/6/23 20:30	2.968	132.1	8.25	6.503	29.49	0
2/6/23 20:45	3.44	140.5	9.24	6.709	29.48	0
2/6/23 21:00	3.044	151.5	8.21	6.703	29.49	0
2/6/23 21:15	2.212	145.8	11.8	6.59	29.48	0
2/6/23 21:30	2.672	136.7	7.035	6.66	29.48	0
2/6/23 21:45	2.559	135.6	7.542	6.584	29.48	0
2/6/23 22:00	2.796	136.2	10.54	6.588	29.48	0.01
2/6/23 22:15	2.821	135.2	6.817	6.419	29.48	0.01
2/6/23 22:30	2.404	130.7	9.84	6.381	29.48	0
2/6/23 22:45	2.256	119.4	8.82	6.428	29.48	0
2/6/23 23:00	2.557	118.4	7.827	6.536	29.48	0
2/6/23 23:15	3.052	123.1	6.43	6.805	29.47	0
2/6/23 23:30	2.958	128.5	6.369	6.886	29.47	0
2/6/23 23:45	3.53	132.1	9.31	7.153	29.46	0
2/7/23 0:00	2.947	134.2	10.05	7.104	29.46	0
2/7/23 0:15	3.108	141.4	5.574	7.053	29.46	0
2/7/23 0:30	3.496	144.7	6.633	7.113	29.45	0
2/7/23 0:45	4.351	147.6	6.499	7.288	29.45	0
2/7/23 1:00	3.816	161.2	8.1	7.284	29.45	0
2/7/23 1:15	3.672	158.6	8.59	7.264	29.45	0
2/7/23 1:30	4.532	146.5	6.062	7.063	29.44	0
2/7/23 1:45	4.434	147.1	5.932	7.04	29.43	0
2/7/23 2:00	4.42	143	6.621	7.027	29.42	0
2/7/23 2:15	4.257	142.3	7.029	6.911	29.42	0
2/7/23 2:30	4.586	147.6	5.541	6.66	29.42	0
2/7/23 2:45	4.201	146.2	5.076	6.402	29.41	0
2/7/23 3:00	3.539	141.7	5.602	6.216	29.41	0.01
2/7/23 3:15	3.012	136.6	6.007	6.166	29.4	0
2/7/23 3:30	3.155	131.3	6.827	6.192	29.39	0
2/7/23 3:45	3.07	132.2	7.095	6.16	29.39	0
2/7/23 4:00	3.82	139.7	7.084	6.248	29.38	0
2/7/23 4:15	4.127	142.6	5.466	6.399	29.37	0
2/7/23 4:30	4.393	140.4	6.372	6.379	29.37	0
2/7/23 4:45	4.494	141.7	6.264	6.382	29.36	0.01
2/7/23 5:00	4.67	140.9	6.051	6.383	29.36	0
2/7/23 5:15	4.33	139.8	6.531	6.29	29.35	0
2/7/23 5:30	4.519	138.9	7.658	6.186	29.35	0
2/7/23 5:45	4.364	141.2	6.463	6.092	29.35	0
2/7/23 6:00	3.524	139.4	7.555	5.979	29.35	0.01
2/7/23 6:15	3.397	131.1	7.482	5.973	29.34	0.01
2/7/23 6:30	3.887	127.4	6.834	5.877	29.33	0.01
2/7/23 6:45	4.308	127.2	7.109	6.012	29.32	0.01
2/7/23 7:00	4.312	130	7.66	6.116	29.31	0.01
2/7/23 7:15	4.352	132.1	8.51	6.287	29.31	0.01
2/7/23 7:30	4.546	140.2	6.839	6.393	29.31	0
2/7/23 7:45	4.729	141.9	6.436	6.401	29.3	0.01
2/7/23 8:00	4.229	139.7	6.261	6.416	29.3	0
2/7/23 8:15	4.402	140.7	6.966	6.526	29.3	0.01
2/7/23 8:30	4.54	142.1	6.051	6.693	29.3	0
2/7/23 8:45	4.469	140.5	6.902	6.866	29.29	0.01
2/7/23 9:00	4.213	138.3	6.721	6.881	29.29	0.01
2/7/23 9:15	4.321	138.5	7.796	6.955	29.29	0
2/7/23 9:30	4.375	140.6	7.418	7.04	29.29	0.01
2/7/23 9:45	5.087	148	8.52	7.274	29.29	0.01
2/7/23 10:00	5.329	152.4	10.64	7.374	29.29	0
2/7/23 10:15	5.599	161	9.07	7.682	29.29	0
2/7/23 10:30	5.771	164	11.71	7.882	29.29	0
2/7/23 10:45	6.509	176.4	10.82	8.18	29.29	0
2/7/23 11:00	7.128	181.1	11.09	8.16	29.29	0
2/7/23 11:15	7.356	179.5	10.11	8.03	29.29	0.01
2/7/23 11:30	8.43	181.6	9.17	7.854	29.29	0
2/7/23 11:45	8.11	179.9	10.06	7.711	29.29	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/7/23 12:00	7.405	170.5	9.88	7.699	29.28	0
2/7/23 12:15	6.338	170.6	9.59	7.732	29.28	0
2/7/23 12:30	6.503	170.8	8.46	7.808	29.28	0
2/7/23 12:45	6.546	179.5	8.91	7.556	29.28	0.03
2/7/23 13:00	7.295	198.1	10.28	7.222	29.29	0.04
2/7/23 13:15	5.895	187.5	11.36	6.922	29.3	0.03
2/7/23 13:30	5.86	178.3	8.48	7.051	29.3	0
2/7/23 13:45	6.3	172.7	8.75	7.085	29.3	0
2/7/23 14:00	6.263	173.2	8.45	7.213	29.3	0
2/7/23 14:15	6.315	170.8	9.09	7.697	29.3	0
2/7/23 14:30	5.307	179.1	15.53	7.462	29.3	0
2/7/23 14:45	5.709	174.5	10.78	7.73	29.3	0
2/7/23 15:00	6.589	181.6	11.53	7.786	29.29	0
2/7/23 15:15	6.926	186.8	11.3	7.86	29.3	0
2/7/23 15:30	6.996	185.9	11.68	7.933	29.3	0
2/7/23 15:45	6.164	199.4	11.74	8	29.31	0
2/7/23 16:00	8.08	220.1	13.22	7.709	29.31	0
2/7/23 16:15	7.5	209.5	10.83	7.148	29.32	0
2/7/23 16:30	6.556	208	12.15	6.632	29.33	0
2/7/23 16:45	7.05	219.6	9.54	6.511	29.33	0
2/7/23 17:00	7.447	215.2	11.4	6.635	29.34	0
2/7/23 17:15	5.945	199.3	11.57	6.385	29.34	0
2/7/23 17:30	6.075	186.1	9.86	6.092	29.34	0
2/7/23 17:45	5.742	192.7	10.03	6.112	29.35	0
2/7/23 18:00	5.805	184.2	11.07	5.998	29.36	0
2/7/23 18:15	4.987	183.5	11.36	5.813	29.37	0
2/7/23 18:30	4.439	174.6	8.97	5.694	29.37	0
2/7/23 18:45	4.203	169	10.2	5.517	29.38	0
2/7/23 19:00	4.048	166.5	9.57	5.489	29.38	0
2/7/23 19:15	4.546	172	8.61	5.44	29.38	0
2/7/23 19:30	4.754	170.9	7.449	5.375	29.38	0
2/7/23 19:45	5.272	172.3	11.63	5.178	29.38	0
2/7/23 20:00	4.204	172.5	13.12	5.119	29.39	0
2/7/23 20:15	5.553	203.9	11.6	5.183	29.39	0
2/7/23 20:30	6.238	208.9	9.14	5.12	29.4	0
2/7/23 20:45	5.604	209	9.35	4.898	29.41	0
2/7/23 21:00	5.951	199.5	10.23	4.686	29.41	0
2/7/23 21:15	5.199	196.1	9.96	4.486	29.42	0
2/7/23 21:30	5.271	183.6	11.45	4.437	29.43	0
2/7/23 21:45	4.835	184.9	11.78	4.4	29.44	0
2/7/23 22:00	4.35	188.8	12.73	4.248	29.45	0
2/7/23 22:15	4.461	185.2	12.91	4.221	29.46	0
2/7/23 22:30	4.444	186.2	12.13	4.15	29.46	0
2/7/23 22:45	5.048	197.8	11.82	4.123	29.46	0
2/7/23 23:00	5.911	206.3	8.95	4.125	29.46	0
2/7/23 23:15	6.063	209.3	7.199	4.195	29.47	0
2/7/23 23:30	5.274	206.1	9.15	4.184	29.47	0
2/7/23 23:45	4.501	196.5	11.66	4.144	29.48	0
2/8/23 0:00	4.626	195.8	13.35	4.004	29.49	0
2/8/23 0:15	3.179	181.7	11.88	3.92	29.5	0
2/8/23 0:30	3.649	179.4	12.08	3.798	29.5	0
2/8/23 0:45	4.332	176.5	7.027	3.702	29.5	0
2/8/23 1:00	4.685	179.8	7.453	3.606	29.49	0
2/8/23 1:15	4.981	178.6	9.15	3.543	29.5	0
2/8/23 1:30	3.695	163.2	11.14	3.54	29.51	0
2/8/23 1:45	3.484	175.3	12.06	3.517	29.51	0
2/8/23 2:00	2.946	174.9	15.76	3.534	29.52	0
2/8/23 2:15	3.409	157.6	14.95	3.519	29.52	0
2/8/23 2:30	2.792	147.4	17.26	3.464	29.53	0
2/8/23 2:45	2.084	134.5	17.54	3.459	29.54	0
2/8/23 3:00	2.986	144.1	13.66	3.432	29.54	0
2/8/23 3:15	3.349	165.4	10.48	3.52	29.54	0
2/8/23 3:30	3.359	156.8	16.71	3.501	29.54	0
2/8/23 3:45	2.519	164.6	19.98	3.465	29.55	0
2/8/23 4:00	2.472	163.6	21.72	3.522	29.55	0
2/8/23 4:15	2.469	189.5	14.69	3.614	29.56	0
2/8/23 4:30	3.014	181.8	10.79	3.557	29.56	0
2/8/23 4:45	2.646	198	16.25	3.555	29.57	0
2/8/23 5:00	3.558	187.9	10.32	3.587	29.57	0
2/8/23 5:15	3.342	188.1	11.46	3.608	29.58	0
2/8/23 5:30	2.504	189.8	13.57	3.556	29.58	0
2/8/23 5:45	2.27	167.3	12.7	3.545	29.59	0
2/8/23 6:00	1.814	181.3	10.98	3.526	29.6	0
2/8/23 6:15	2.747	178	13.17	3.538	29.6	0
2/8/23 6:30	2.103	180.1	9.35	3.559	29.6	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/8/23 6:45	2.573	179.6	10.46	3.561	29.6	0
2/8/23 7:00	1.79	150.2	13.22	3.419	29.61	0
2/8/23 7:15	1.523	133.8	10.65	3.372	29.61	0
2/8/23 7:30	0.947	121.4	14.29	3.423	29.62	0
2/8/23 7:45	0.929	111.3	32.54	3.417	29.63	0
2/8/23 8:00	1.294	101.6	13.74	3.362	29.64	0
2/8/23 8:15	1.416	130.6	9.38	3.397	29.64	0
2/8/23 8:30	1.216	132.8	14.99	3.577	29.64	0
2/8/23 8:45	1.816	132.9	10.43	3.83	29.64	0
2/8/23 9:00	1.918	120.4	12.26	3.983	29.65	0
2/8/23 9:15	2.169	139.9	11.13	4.107	29.65	0
2/8/23 9:30	1.712	157.5	16.05	4.238	29.66	0
2/8/23 9:45	1.508	141	14.29	4.247	29.67	0
2/8/23 10:00	1.415	124.6	13.5	4.469	29.67	0
2/8/23 10:15	1.517	120.8	16.99	5.129	29.67	0
2/8/23 10:30	2.173	160.5	24.63	5.089	29.66	0
2/8/23 10:45	3.033	187.2	11.15	4.953	29.66	0
2/8/23 11:00	2.325	175.2	15.02	5.26	29.66	0
2/8/23 11:15	3.789	164.8	12.23	6.104	29.66	0
2/8/23 11:30	2.984	193.8	16.73	5.728	29.66	0
2/8/23 11:45	2.191	185	14.91	6.253	29.66	0
2/8/23 12:00	2.312	200	21.08	6.561	29.66	0
2/8/23 12:15	2.447	175.8	27.97	6.96	29.66	0
2/8/23 12:30	2.56	186.6	28.65	6.976	29.66	0
2/8/23 12:45	2.366	196.6	29.73	6.74	29.66	0
2/8/23 13:00	3.451	232.7	9.81	6.961	29.66	0
2/8/23 13:15	2.586	235.1	11.21	6.803	29.66	0
2/8/23 13:30	1.733	204.2	29.49	7.127	29.66	0
2/8/23 13:45	3.261	199.9	15.27	7.798	29.66	0
2/8/23 14:00	3.064	227.2	31.27	7.414	29.66	0
2/8/23 14:15	2.616	222.9	29	7.771	29.66	0
2/8/23 14:30	3.15	212.8	21.89	7.574	29.65	0
2/8/23 14:45	2.464	207.7	12.92	7.4	29.65	0
2/8/23 15:00	1.495	218	24.89	7.749	29.65	0
2/8/23 15:15	1.419	246.8	38.59	7.966	29.65	0
2/8/23 15:30	1.762	209.2	43.38	8.17	29.65	0
2/8/23 15:45	1.906	256.3	21.97	8.09	29.65	0
2/8/23 16:00	1.406	187.3	53.61	7.857	29.64	0
2/8/23 16:15	0.466	113.1	15.33	7.847	29.64	0
2/8/23 16:30	0.219	204.8	30.26	8.06	29.63	0
2/8/23 16:45	0.33	168.4	11.33	7.702	29.63	0
2/8/23 17:00	0.565	252.1	18.91	7.585	29.63	0
2/8/23 17:15	1.327	240.7	7.939	6.892	29.63	0
2/8/23 17:30	1.029	256.1	3.226	6.77	29.63	0
2/8/23 17:45	0.639	268.3	3.358	6.773	29.63	0
2/8/23 18:00	1.035	20.14	14.37	5.902	29.63	0
2/8/23 18:15	1.14	30.45	3.785	5.501	29.63	0
2/8/23 18:30	1.331	30.14	4.293	5.327	29.63	0
2/8/23 18:45	0.975	40.59	6.08	5.189	29.63	0
2/8/23 19:00	0.896	76.69	11.75	5.144	29.62	0
2/8/23 19:15	1.158	103.4	7.392	4.778	29.62	0
2/8/23 19:30	1.299	178.4	30.45	5.193	29.62	0
2/8/23 19:45	2.664	151.1	30.8	4.818	29.62	0
2/8/23 20:00	2.729	119.3	12.04	5.158	29.61	0
2/8/23 20:15	2.325	139.2	9.14	5.144	29.62	0
2/8/23 20:30	1.905	133.5	11.78	5.219	29.62	0
2/8/23 20:45	1.668	109.3	10.23	5.206	29.62	0
2/8/23 21:00	2.022	143	16.42	4.929	29.62	0
2/8/23 21:15	2.255	151.9	8.3	5.148	29.62	0
2/8/23 21:30	2.118	138.5	10.69	5.346	29.61	0
2/8/23 21:45	2.467	140.2	10.45	5.548	29.61	0
2/8/23 22:00	2.58	133.2	10.46	5.586	29.6	0
2/8/23 22:15	2.745	149.8	12.9	5.671	29.6	0
2/8/23 22:30	2.783	148.7	13.13	5.717	29.6	0
2/8/23 22:45	2.007	130.5	11.37	5.792	29.6	0
2/8/23 23:00	2.289	147.8	14.76	5.916	29.59	0
2/8/23 23:15	2.502	144.1	14.51	5.96	29.59	0
2/8/23 23:30	2.488	151.6	13.05	5.887	29.59	0
2/8/23 23:45	2.49	154.7	14.92	5.944	29.59	0
2/9/23 0:00	2.076	157.5	19.13	5.98	29.58	0
2/9/23 0:15	1.978	149.8	15.1	5.99	29.58	0
2/9/23 0:30	2.342	131.7	13.87	6.086	29.57	0
2/9/23 0:45	1.714	110.3	22.67	6.203	29.56	0
2/9/23 1:00	1.604	99	18.96	6.187	29.56	0
2/9/23 1:15	2.077	100.1	18.09	6.31	29.55	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/9/23 1:30	2.309	101.1	14.96	6.409	29.55	0
2/9/23 1:45	2.662	108.7	13.31	6.616	29.54	0
2/9/23 2:00	2.261	119.3	16.54	6.641	29.54	0
2/9/23 2:15	2.833	110.6	13.57	6.671	29.54	0
2/9/23 2:30	3.183	105.3	12.72	6.677	29.53	0
2/9/23 2:45	4.014	109.7	13.2	6.895	29.53	0
2/9/23 3:00	4.173	110.4	12.32	7.119	29.52	0
2/9/23 3:15	4.227	106.2	12.59	7.175	29.51	0
2/9/23 3:30	4.958	114.4	10.64	7.467	29.51	0
2/9/23 3:45	4.345	105.9	12.93	7.384	29.5	0
2/9/23 4:00	4.899	113.6	11.65	7.376	29.5	0
2/9/23 4:15	4.988	117.3	13.09	7.336	29.49	0
2/9/23 4:30	4.77	111.8	12.78	7.401	29.49	0
2/9/23 4:45	3.734	100.1	16.45	7.285	29.48	0
2/9/23 5:00	3.063	84.8	13.36	6.98	29.47	0
2/9/23 5:15	2.956	95.3	11.61	6.973	29.45	0
2/9/23 5:30	3.152	112.3	10.54	7.209	29.44	0
2/9/23 5:45	2.902	125.5	13.3	7.092	29.44	0
2/9/23 6:00	3.341	126.7	13.23	7.05	29.43	0
2/9/23 6:15	3.241	130.3	15.1	7.199	29.43	0
2/9/23 6:30	2.183	138.9	18.97	7.298	29.43	0
2/9/23 6:45	1.847	105.1	23.83	7.417	29.42	0
2/9/23 7:00	2.56	114.9	22.15	7.216	29.42	0
2/9/23 7:15	3.056	117.6	21.62	7.444	29.41	0
2/9/23 7:30	2.267	103.8	16.32	7.452	29.41	0
2/9/23 7:45	2.212	119.6	18.84	7.587	29.41	0
2/9/23 8:00	2.567	118.3	16.58	7.669	29.41	0
2/9/23 8:15	2.496	105.1	13.54	7.606	29.41	0
2/9/23 8:30	2.281	114.3	18.36	7.677	29.41	0
2/9/23 8:45	2.754	103.6	24.07	7.838	29.4	0
2/9/23 9:00	2.798	120.1	19.61	8.1	29.4	0
2/9/23 9:15	4.884	126.1	11.19	8.61	29.39	0
2/9/23 9:30	4.766	122.7	12.31	8.71	29.39	0
2/9/23 9:45	4.317	118.3	14.4	8.72	29.38	0
2/9/23 10:00	4.448	119.4	13.95	8.9	29.38	0
2/9/23 10:15	5.426	129.1	12.67	9.08	29.37	0
2/9/23 10:30	4.763	120.4	14.57	9.27	29.37	0
2/9/23 10:45	4.279	115.9	15.12	9.74	29.37	0
2/9/23 11:00	6.257	120.6	14.88	9.95	29.36	0
2/9/23 11:15	6.574	124.1	10.21	10.01	29.36	0
2/9/23 11:30	6.047	123.5	11.82	10.19	29.36	0
2/9/23 11:45	6.142	126.3	11.56	10.36	29.35	0
2/9/23 12:00	6.735	121.2	12.35	10.52	29.34	0
2/9/23 12:15	6.796	117.9	12.53	10.7	29.34	0
2/9/23 12:30	5.753	126.3	13.08	10.81	29.33	0
2/9/23 12:45	6.395	125.5	11.96	10.97	29.32	0
2/9/23 13:00	5.629	120.4	13.45	11.27	29.32	0
2/9/23 13:15	6.443	123.3	11.86	11.41	29.31	0
2/9/23 13:30	5.846	118.6	12.93	11.47	29.3	0
2/9/23 13:45	5.566	121.1	12.92	11.88	29.29	0
2/9/23 14:00	6.291	121.9	12.2	11.99	29.29	0
2/9/23 14:15	6.125	121.6	13.8	12.23	29.28	0
2/9/23 14:30	6.057	122.7	12.92	12.75	29.27	0
2/9/23 14:45	6.631	121.2	14.56	12.49	29.26	0
2/9/23 15:00	6.795	118.7	12.2	12.4	29.26	0
2/9/23 15:15	6.485	121	11.65	12.48	29.25	0
2/9/23 15:30	7.092	119.7	10.31	12.46	29.24	0
2/9/23 15:45	7.3	121.4	10.75	12.4	29.23	0
2/9/23 16:00	6.579	121.8	10.85	12.28	29.23	0
2/9/23 16:15	6.385	121.8	11.65	12.22	29.23	0
2/9/23 16:30	7.451	118.1	10.96	11.81	29.22	0
2/9/23 16:45	7.635	121.9	10.83	11.48	29.22	0
2/9/23 17:00	7.343	123.4	9.47	11.16	29.22	0
2/9/23 17:15	7.874	119.9	9.9	10.88	29.22	0
2/9/23 17:30	8.38	123.2	10.33	10.75	29.22	0
2/9/23 17:45	8.47	122.2	10.62	10.66	29.22	0
2/9/23 18:00	8.8	119.7	11.37	10.44	29.21	0
2/9/23 18:15	8.51	119.7	11.85	10.24	29.21	0
2/9/23 18:30	8.72	119.5	10.48	10.19	29.2	0
2/9/23 18:45	8.75	118.4	10.44	10.01	29.2	0
2/9/23 19:00	8.28	119.2	9.83	9.83	29.2	0
2/9/23 19:15	7.433	121.6	11.4	9.67	29.2	0
2/9/23 19:30	7.856	123.4	10.37	9.63	29.2	0
2/9/23 19:45	8.42	120.9	8.92	9.62	29.2	0
2/9/23 20:00	7.319	123.2	9.63	9.48	29.21	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/9/23 20:15	6.173	123.4	10.32	9.24	29.2	0
2/9/23 20:30	5.633	130.7	12.72	9.1	29.21	0
2/9/23 20:45	6.446	129.2	14.05	8.96	29.21	0
2/9/23 21:00	6.919	119.5	11.62	9.13	29.21	0
2/9/23 21:15	5.976	125.4	10.84	9.24	29.21	0
2/9/23 21:30	5.226	134.3	12.07	9.38	29.21	0
2/9/23 21:45	4.952	136.7	11.16	9.47	29.22	0
2/9/23 22:00	4.843	182.3	40.74	9.1	29.24	0
2/9/23 22:15	3.408	184.9	18.89	8.94	29.26	0
2/9/23 22:30	7.25	211.5	9.59	8.76	29.26	0.02
2/9/23 22:45	7.788	192.1	10.1	8.31	29.26	0.03
2/9/23 23:00	4.444	166.2	8.95	7.895	29.27	0
2/9/23 23:15	2.606	199.9	29.34	7.419	29.28	0.02
2/9/23 23:30	1.235	261.3	30.24	7.058	29.29	0.02
2/9/23 23:45	3.784	216.3	7.543	7.414	29.29	0.01
2/10/23 0:00	4.187	213	8.5	7.441	29.3	0
2/10/23 0:15	3.604	205.3	9.24	7.201	29.3	0
2/10/23 0:30	3.189	202	10.35	7.041	29.31	0.01
2/10/23 0:45	2.665	182.5	11.65	6.954	29.31	0
2/10/23 1:00	2.293	157	20.22	6.742	29.31	0
2/10/23 1:15	2.411	135.2	13.3	6.527	29.31	0
2/10/23 1:30	2.762	138.7	15.28	6.544	29.31	0
2/10/23 1:45	3.386	136.5	13.47	6.63	29.31	0
2/10/23 2:00	2.361	136.8	14.67	6.704	29.31	0
2/10/23 2:15	2.004	167.5	18.75	6.744	29.32	0.02
2/10/23 2:30	2.435	144.1	11.7	6.441	29.32	0.01
2/10/23 2:45	2.491	133.2	6.779	6.207	29.32	0
2/10/23 3:00	2.698	141.6	8.12	6.247	29.32	0
2/10/23 3:15	2.045	153.2	8.25	6.11	29.32	0
2/10/23 3:30	1.84	146.1	8.92	6.039	29.32	0
2/10/23 3:45	2.066	143.9	11.56	5.948	29.32	0
2/10/23 4:00	2.324	154.7	8.76	5.913	29.32	0
2/10/23 4:15	2.006	147.8	9.18	5.707	29.32	0
2/10/23 4:30	2.493	145.8	8.71	5.804	29.32	0
2/10/23 4:45	2.725	139.5	7.722	5.959	29.32	0
2/10/23 5:00	2.693	147.5	9.47	5.879	29.32	0
2/10/23 5:15	2.81	141	6.842	5.69	29.33	0
2/10/23 5:30	2.846	166.1	11.91	5.887	29.33	0
2/10/23 5:45	2.747	148.7	14.32	5.879	29.33	0
2/10/23 6:00	2.657	155.6	9.71	5.882	29.33	0
2/10/23 6:15	3.078	160.9	8.18	5.849	29.33	0
2/10/23 6:30	2.579	151	13.27	5.888	29.34	0
2/10/23 6:45	2.916	135.9	7.738	5.772	29.34	0
2/10/23 7:00	2.842	134.7	7.348	5.664	29.35	0
2/10/23 7:15	3.135	128	8.06	5.545	29.34	0
2/10/23 7:30	3.361	136.4	8.5	5.596	29.35	0
2/10/23 7:45	2.829	129.3	9.58	5.662	29.35	0
2/10/23 8:00	3.213	131.3	9.29	5.644	29.35	0
2/10/23 8:15	2.857	136.6	9	5.626	29.36	0
2/10/23 8:30	3.266	139.8	9.23	5.578	29.36	0
2/10/23 8:45	3.061	124.1	10.62	5.67	29.36	0
2/10/23 9:00	2.887	123.8	9.83	5.822	29.37	0
2/10/23 9:15	2.38	143.7	12.6	5.923	29.37	0
2/10/23 9:30	2.211	131.6	12.03	6.068	29.37	0
2/10/23 9:45	2.341	132.7	14.54	6.339	29.37	0
2/10/23 10:00	2.192	122.5	11.42	6.57	29.38	0
2/10/23 10:15	2.017	128.3	13.46	7.095	29.38	0
2/10/23 10:30	2.274	155.1	13.44	7.288	29.38	0
2/10/23 10:45	2.455	150	17.37	7.322	29.38	0
2/10/23 11:00	3.11	149.7	8.07	7.357	29.38	0
2/10/23 11:15	3.093	136.7	8.98	7.679	29.38	0
2/10/23 11:30	2.717	138	13.79	7.841	29.38	0
2/10/23 11:45	2.543	141.2	19.27	8.25	29.38	0
2/10/23 12:00	3.622	155.4	16.98	8.35	29.37	0
2/10/23 12:15	3.503	136.4	19.03	8.79	29.37	0
2/10/23 12:30	2.712	170	17.09	8.82	29.37	0
2/10/23 12:45	2.58	163.2	19.38	8.35	29.37	0
2/10/23 13:00	2.53	178.1	15.77	8.61	29.37	0
2/10/23 13:15	2.755	159.7	18.14	9.5	29.36	0
2/10/23 13:30	2.444	182.7	15.32	9.4	29.36	0
2/10/23 13:45	2.337	185.6	15.15	9.37	29.36	0
2/10/23 14:00	2.818	181.7	20.75	9.33	29.36	0
2/10/23 14:15	1.711	213.8	33.25	9.45	29.36	0
2/10/23 14:30	0.946	117.3	48.16	9.47	29.35	0
2/10/23 14:45	0.951	207	58.42	10.01	29.35	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/10/23 15:00	1.385	265.5	38.14	9.89	29.35	0
2/10/23 15:15	1.73	134.4	61.55	10.2	29.35	0
2/10/23 15:30	1.368	143.3	28.61	10.01	29.35	0
2/10/23 15:45	2.727	222.2	25.3	9.99	29.35	0
2/10/23 16:00	2.336	251.2	11.25	9.9	29.35	0
2/10/23 16:15	0.955	260.2	44.15	10.16	29.36	0
2/10/23 16:30	1.756	274.8	11.1	9.23	29.36	0
2/10/23 16:45	1.184	293.1	22.32	9.58	29.36	0
2/10/23 17:00	1.805	285.7	17.13	9.14	29.37	0
2/10/23 17:15	1.581	294	15.18	8.74	29.37	0
2/10/23 17:30	0.48	312.9	6.899	8.58	29.37	0
2/10/23 17:45	0.071	79.3	49.16	8.31	29.37	0
2/10/23 18:00	0.458	99.1	31.3	8.1	29.36	0
2/10/23 18:15	0.444	225.7	24.24	7.824	29.37	0
2/10/23 18:30	0.857	238.2	13.86	8.02	29.37	0
2/10/23 18:45	0.856	29.87	48.02	7.071	29.37	0
2/10/23 19:00	0.455	55.25	1.566	6.738	29.38	0
2/10/23 19:15	0.655	38.24	20	6.857	29.38	0
2/10/23 19:30	1.786	26.76	13.58	5.253	29.39	0
2/10/23 19:45	2.884	18.15	14.87	4.993	29.39	0
2/10/23 20:00	3.525	6.627	13.35	5.556	29.39	0
2/10/23 20:15	3.795	10.86	15.03	5.784	29.4	0
2/10/23 20:30	4.628	18.21	15.44	5.726	29.4	0
2/10/23 20:45	4.87	21.98	14.93	5.709	29.4	0
2/10/23 21:00	5.015	27.13	11.36	5.712	29.4	0
2/10/23 21:15	5.06	26.85	11.1	5.62	29.41	0
2/10/23 21:30	3.773	31.15	12.51	5.582	29.41	0
2/10/23 21:45	3.407	33.04	13.01	5.565	29.41	0
2/10/23 22:00	2.574	25.39	12.8	5.594	29.42	0
2/10/23 22:15	2.282	13.47	19.33	5.624	29.42	0
2/10/23 22:30	2.404	26.84	19.97	5.594	29.42	0
2/10/23 22:45	3.296	39.18	17.62	5.56	29.42	0
2/10/23 23:00	3.315	30.4	18.44	5.584	29.42	0
2/10/23 23:15	4.241	20.91	13.36	5.683	29.43	0
2/10/23 23:30	3.061	19.13	21.69	5.704	29.43	0
2/10/23 23:45	2.166	34.35	36.03	5.59	29.43	0
2/11/23 0:00	3.078	39.73	17.4	5.373	29.43	0
2/11/23 0:15	3.97	22.49	16.17	5.454	29.44	0
2/11/23 0:30	3.991	14.45	17.03	5.418	29.44	0
2/11/23 0:45	3.306	12.64	15.1	5.317	29.44	0
2/11/23 1:00	4.797	16.05	15.33	5.282	29.43	0
2/11/23 1:15	3.615	17.42	16.41	5.089	29.43	0
2/11/23 1:30	2.365	7.663	26.28	5.056	29.44	0
2/11/23 1:45	1.963	17.41	34.52	4.977	29.44	0
2/11/23 2:00	1.752	36.63	25.05	4.729	29.44	0
2/11/23 2:15	4.204	27.28	15.74	4.912	29.45	0
2/11/23 2:30	2.194	9.8	32.5	4.77	29.45	0
2/11/23 2:45	1.466	303.1	43.79	4.575	29.45	0
2/11/23 3:00	0.701	51.16	92.2	4.536	29.45	0
2/11/23 3:15	1.169	49.65	24.89	4.385	29.45	0
2/11/23 3:30	2.336	36.34	13.55	4.222	29.45	0
2/11/23 3:45	3.875	22.19	10.16	4.049	29.45	0
2/11/23 4:00	2.485	27.83	15.45	3.793	29.45	0
2/11/23 4:15	3.06	22.96	14.97	3.796	29.45	0
2/11/23 4:30	3.493	34.9	10.4	3.636	29.45	0
2/11/23 4:45	2.562	21.98	11.09	3.475	29.45	0
2/11/23 5:00	1.699	33.06	16.47	3.399	29.45	0
2/11/23 5:15	1.724	30.66	19.74	3.473	29.45	0
2/11/23 5:30	2.796	31.55	16.09	3.555	29.45	0
2/11/23 5:45	2.911	37.61	10.87	3.457	29.45	0
2/11/23 6:00	2.864	33.52	9.64	3.367	29.45	0
2/11/23 6:15	2.806	27.52	7.773	3.127	29.45	0
2/11/23 6:30	2.569	22.05	7.272	2.956	29.45	0
2/11/23 6:45	2.57	10.77	8.02	2.877	29.46	0
2/11/23 7:00	2.1	4.63	17.64	2.663	29.46	0
2/11/23 7:15	2.342	10.24	9.54	2.337	29.46	0
2/11/23 7:30	3.027	13.22	10.44	2.233	29.47	0
2/11/23 7:45	3	10.44	12.63	2.189	29.47	0
2/11/23 8:00	3.881	6.627	13.16	2.858	29.47	0
2/11/23 8:15	3.039	6.188	13.8	3.006	29.47	0
2/11/23 8:30	2.899	5.287	13.86	3.237	29.48	0
2/11/23 8:45	2.385	359.4	16.8	3.547	29.48	0
2/11/23 9:00	1.893	10.64	15.38	3.722	29.48	0
2/11/23 9:15	2.37	9.45	16.05	3.834	29.48	0
2/11/23 9:30	2.166	9.89	15.62	3.949	29.48	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/11/23 9:45	2.317	12.92	18.43	4.422	29.48	0
2/11/23 10:00	3.105	16.36	14.89	4.905	29.48	0
2/11/23 10:15	3.157	22.38	9.74	5.056	29.48	0
2/11/23 10:30	2.541	16.97	16.53	5.503	29.48	0
2/11/23 10:45	2.531	18.33	22.68	6.047	29.48	0
2/11/23 11:00	2.041	347.1	40.01	6.177	29.48	0
2/11/23 11:15	2.237	359.2	42.83	5.88	29.48	0
2/11/23 11:30	2.087	27.3	13.46	5.649	29.48	0
2/11/23 11:45	1.487	18.43	34.24	6.26	29.48	0
2/11/23 12:00	2.048	26.35	25.65	7.127	29.48	0
2/11/23 12:15	1.88	28.84	27.11	6.793	29.47	0
2/11/23 12:30	1.622	32.89	27.39	7.319	29.46	0
2/11/23 12:45	2.041	8.4	24.01	7.422	29.46	0
2/11/23 13:00	1.363	31.07	26.65	7.413	29.45	0
2/11/23 13:15	1.66	324.1	33.07	7.703	29.45	0
2/11/23 13:30	2.834	4.238	19.85	7.309	29.45	0
2/11/23 13:45	2.208	0.133	27.95	7.162	29.45	0
2/11/23 14:00	3.634	7.164	14.48	7.485	29.44	0
2/11/23 14:15	3.743	8.98	13.44	7.39	29.45	0
2/11/23 14:30	3.151	352	16.21	7.16	29.45	0
2/11/23 14:45	2.999	350.1	17.2	7.163	29.44	0
2/11/23 15:00	2.827	358.7	19.39	7.588	29.44	0
2/11/23 15:15	3.261	328.2	21.26	7.462	29.44	0
2/11/23 15:30	2.276	332.4	12.41	7.649	29.43	0
2/11/23 15:45	2.202	327.2	20.56	7.691	29.44	0
2/11/23 16:00	3.56	330.2	9.48	7.493	29.44	0
2/11/23 16:15	3.1	326	13.61	6.984	29.43	0
2/11/23 16:30	3.391	304.6	6.605	6.784	29.44	0
2/11/23 16:45	3.04	303	9.26	6.585	29.44	0
2/11/23 17:00	2.885	311.6	7.736	6.365	29.44	0
2/11/23 17:15	2.493	322.6	16.55	6.109	29.44	0
2/11/23 17:30	2.44	313.1	21.35	5.808	29.45	0
2/11/23 17:45	2.266	5.719	21.66	5.543	29.44	0
2/11/23 18:00	2.068	36.09	15.42	5.327	29.44	0
2/11/23 18:15	2.707	27.52	17.43	5.098	29.43	0
2/11/23 18:30	2.616	18.87	8.91	4.961	29.43	0
2/11/23 18:45	2.538	12.09	8.66	5.046	29.43	0
2/11/23 19:00	2.863	14.07	13.5	4.898	29.44	0
2/11/23 19:15	3.077	5.613	15.05	4.913	29.43	0
2/11/23 19:30	3.088	14.34	11.94	4.622	29.43	0
2/11/23 19:45	2.97	21.88	11.6	4.539	29.43	0
2/11/23 20:00	2.788	29.14	9.28	4.254	29.42	0
2/11/23 20:15	3.162	22.76	7.583	3.738	29.42	0
2/11/23 20:30	2.409	8.79	12.73	3.828	29.43	0
2/11/23 20:45	2.364	9.95	15.4	4.138	29.43	0
2/11/23 21:00	2.824	13.75	10.3	3.8	29.43	0
2/11/23 21:15	2.545	17.1	10.18	3.644	29.43	0
2/11/23 21:30	3.203	10.21	11.94	3.604	29.44	0
2/11/23 21:45	2.846	16.73	9.59	3.686	29.44	0
2/11/23 22:00	3.001	16.23	10.14	3.074	29.45	0
2/11/23 22:15	2.606	22.72	9.16	2.672	29.45	0
2/11/23 22:30	2.674	29.82	7.294	2.58	29.45	0
2/11/23 22:45	2.809	36.69	8.02	2.618	29.45	0
2/11/23 23:00	2.165	61.19	14.27	2.32	29.45	0
2/11/23 23:15	2.05	97.1	12.13	2.786	29.44	0
2/11/23 23:30	1.973	123.5	5.772	3.03	29.44	0
2/11/23 23:45	1.627	114.8	5.919	3.051	29.44	0
2/12/23 0:00	0.934	76.45	17.75	2.894	29.44	0
2/12/23 0:15	1.375	30.59	9.27	2.657	29.44	0
2/12/23 0:30	1.884	11.02	4.014	2.372	29.44	0
2/12/23 0:45	1.724	3.923	14.26	2.018	29.45	0
2/12/23 1:00	1.078	25.13	15.91	1.743	29.44	0
2/12/23 1:15	1.625	12.17	15.38	1.564	29.44	0
2/12/23 1:30	1.465	4.949	16.01	1.735	29.44	0
2/12/23 1:45	1.034	15.81	10.89	1.779	29.44	0
2/12/23 2:00	0.899	58.6	17.56	1.934	29.45	0
2/12/23 2:15	0.967	102.7	13.12	1.74	29.45	0
2/12/23 2:30	1.319	145.9	16.35	1.969	29.45	0
2/12/23 2:45	1.869	163.8	6.99	1.662	29.45	0
2/12/23 3:00	1.769	131.7	7.995	1.961	29.44	0
2/12/23 3:15	1.051	166.4	16.96	2.104	29.44	0
2/12/23 3:30	0.769	182	35.07	2.193	29.44	0
2/12/23 3:45	0.473	130.3	20.05	2.601	29.44	0
2/12/23 4:00	0.271	289.2	15.86	2.444	29.44	0
2/12/23 4:15	1.298	357.3	27.28	2.027	29.44	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/12/23 4:30	0.965	10.65	6.866	1.374	29.44	0
2/12/23 4:45	0.759	15.67	15.33	1.283	29.43	0
2/12/23 5:00	1.033	51.25	12.54	0.713	29.43	0
2/12/23 5:15	0.812	14.24	15.46	0.586	29.42	0
2/12/23 5:30	0.278	6.306	17.62	0.99	29.42	0
2/12/23 5:45	0.099	42.24	1.361	0.864	29.41	0
2/12/23 6:00	0.819	97.2	26.15	1.459	29.41	0
2/12/23 6:15	1.147	112.5	8.56	1.716	29.41	0
2/12/23 6:30	0.902	101.4	12.17	1.756	29.41	0
2/12/23 6:45	1.388	101	15.82	1.545	29.4	0
2/12/23 7:00	1.615	133.9	15.81	1.484	29.4	0
2/12/23 7:15	2.03	168.9	14.03	1.77	29.4	0
2/12/23 7:30	2.062	185.9	8.51	0.991	29.41	0
2/12/23 7:45	1.676	175.6	13.21	0.853	29.41	0
2/12/23 8:00	1.062	170.8	23.9	1.3	29.4	0
2/12/23 8:15	1.128	154.6	18.36	1.738	29.4	0
2/12/23 8:30	0.678	119	6.697	2.277	29.4	0
2/12/23 8:45	0.495	117.6	12.46	3.511	29.41	0
2/12/23 9:00	1.668	117.1	25.62	2.975	29.4	0
2/12/23 9:15	0.588	62.02	35.51	3.06	29.4	0.01
2/12/23 9:30	1.281	132	17.92	3.946	29.4	0
2/12/23 9:45	0.836	173.4	18.54	4.204	29.4	0
2/12/23 10:00	1.297	238.8	9.85	4.558	29.4	0
2/12/23 10:15	1.044	211.7	25.36	4.969	29.4	0
2/12/23 10:30	1.414	140.8	19.78	5.661	29.4	0
2/12/23 10:45	1.147	161	38.81	6.29	29.4	0
2/12/23 11:00	1.981	180.3	17.24	6.191	29.39	0
2/12/23 11:15	2.857	175.8	15.28	6.62	29.38	0
2/12/23 11:30	3.305	187	11.11	6.79	29.38	0
2/12/23 11:45	3.521	193.1	9.78	7.053	29.38	0
2/12/23 12:00	3.085	175.7	11.9	7.302	29.37	0
2/12/23 12:15	2.362	176.2	15.2	7.719	29.37	0
2/12/23 12:30	2.454	198.1	10.36	7.989	29.37	0
2/12/23 12:45	2.247	191.2	10.85	8.13	29.36	0
2/12/23 13:00	1.962	176.5	19.52	8.23	29.36	0
2/12/23 13:15	2.737	136.6	11.67	8.41	29.34	0
2/12/23 13:30	2.734	152.8	9.49	8.75	29.33	0
2/12/23 13:45	2.409	164.7	19.96	8.97	29.33	0
2/12/23 14:00	1.786	159.6	9.77	8.99	29.32	0
2/12/23 14:15	1.312	193.2	21.66	9.05	29.32	0
2/12/23 14:30	1.754	166.9	24.62	9.19	29.31	0
2/12/23 14:45	2.643	123.9	10.4	9.38	29.29	0
2/12/23 15:00	2.784	153.9	9.7	9.53	29.28	0
2/12/23 15:15	2.542	169.8	11.99	9.6	29.28	0
2/12/23 15:30	2.516	181	13.61	9.46	29.28	0
2/12/23 15:45	3.094	150.8	15.06	9.39	29.27	0
2/12/23 16:00	3.054	149	9.1	9.4	29.26	0
2/12/23 16:15	2.246	156.4	10.96	9.47	29.25	0
2/12/23 16:30	2.947	148.5	9.67	9.48	29.24	0
2/12/23 16:45	3.484	147.2	10.86	9.46	29.24	0
2/12/23 17:00	3.255	149.6	12.33	9.54	29.23	0
2/12/23 17:15	3.055	145.6	7.326	9.5	29.23	0
2/12/23 17:30	2.78	134	10.64	9.42	29.23	0
2/12/23 17:45	3.186	136.5	8.93	9.4	29.21	0
2/12/23 18:00	4.144	140.4	9.24	9.47	29.2	0
2/12/23 18:15	4.181	154.9	8.77	9.45	29.19	0
2/12/23 18:30	3.116	189.8	11.88	9.26	29.2	0
2/12/23 18:45	3.285	180.8	9.85	9.07	29.2	0
2/12/23 19:00	4.511	204.5	19.65	8.57	29.19	0
2/12/23 19:15	4.983	194	13.68	7.958	29.19	0
2/12/23 19:30	5.62	191.3	9.81	7.811	29.19	0
2/12/23 19:45	5.728	159.8	16.04	7.41	29.19	0
2/12/23 20:00	4.984	159	11.93	7.136	29.18	0
2/12/23 20:15	4.41	152.1	12.26	6.981	29.18	0
2/12/23 20:30	4.561	138.8	10.3	6.445	29.18	0
2/12/23 20:45	4.52	139.8	9.6	6.279	29.17	0
2/12/23 21:00	3.272	157.2	10.39	6.421	29.17	0
2/12/23 21:15	2.384	158.9	13.09	6.644	29.17	0
2/12/23 21:30	3.651	145.9	10.08	6.353	29.16	0
2/12/23 21:45	5.214	169	9.4	6.174	29.15	0.01
2/12/23 22:00	5.068	167.5	7.901	6.094	29.15	0
2/12/23 22:15	4.511	153.5	8.41	5.948	29.14	0.01
2/12/23 22:30	4.704	151.1	6.941	5.866	29.13	0.01
2/12/23 22:45	4.485	153.8	7.783	5.935	29.12	0.01
2/12/23 23:00	4.218	164	9.1	6.034	29.12	0.01

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/12/23 23:15	4.058	152.6	6.615	5.999	29.12	0.01
2/12/23 23:30	4.339	163	8.82	6.076	29.11	0.03
2/12/23 23:45	5.314	167.5	8.39	6.189	29.11	0.01
2/13/23 0:00	6.505	175.6	9.83	6.307	29.09	0
2/13/23 0:15	6.777	180.8	9.32	6.421	29.09	0.01
2/13/23 0:30	7.847	188.1	9.29	6.507	29.09	0
2/13/23 0:45	7.619	192.9	9.58	6.584	29.08	0
2/13/23 1:00	8.33	191	8.86	6.495	29.08	0
2/13/23 1:15	7.654	194.4	10.27	6.343	29.08	0
2/13/23 1:30	6.341	198.2	9.91	6.242	29.07	0
2/13/23 1:45	7.209	203.2	8.95	6.228	29.08	0
2/13/23 2:00	7.369	201.5	9.23	6.027	29.07	0
2/13/23 2:15	6.618	190.2	9.65	5.669	29.07	0
2/13/23 2:30	6.645	187.6	8.57	5.309	29.07	0
2/13/23 2:45	5.531	190	10.58	5.113	29.07	0
2/13/23 3:00	4.749	175.9	10.5	4.99	29.08	0
2/13/23 3:15	4.053	171.4	16.02	5.001	29.08	0
2/13/23 3:30	4.124	177.6	15.13	5.023	29.08	0
2/13/23 3:45	5.578	182.4	11.93	5.085	29.08	0
2/13/23 4:00	6.153	189	10.16	5.077	29.07	0
2/13/23 4:15	6.22	176.4	12.55	5.066	29.06	0
2/13/23 4:30	4.752	158.2	10.93	4.873	29.06	0
2/13/23 4:45	4.948	169.7	9.04	4.856	29.05	0
2/13/23 5:00	5.396	172.2	9.3	4.738	29.04	0
2/13/23 5:15	4.912	177.7	9.12	4.676	29.04	0
2/13/23 5:30	5.597	183.2	10.96	4.512	29.03	0
2/13/23 5:45	6.139	186.5	9.95	4.194	29.02	0
2/13/23 6:00	4.545	180.8	11.55	3.986	29.02	0.01
2/13/23 6:15	4.282	181	12.07	3.927	29.01	0
2/13/23 6:30	3.465	192.9	11.34	3.912	29.02	0
2/13/23 6:45	3.618	192.9	16.26	3.964	29.02	0
2/13/23 7:00	4.405	198.8	21.8	4.027	29.02	0
2/13/23 7:15	3.742	195.7	12.46	4.031	29.03	0
2/13/23 7:30	3.882	203.3	11.73	3.936	29.03	0
2/13/23 7:45	3.552	196.1	11.95	3.818	29.04	0
2/13/23 8:00	3.161	188.9	9.67	3.703	29.04	0.01
2/13/23 8:15	3.018	176.1	10.55	3.615	29.04	0
2/13/23 8:30	3.056	177.6	10.03	3.616	29.04	0
2/13/23 8:45	2.87	174.3	8.93	3.588	29.04	0
2/13/23 9:00	2.761	170.6	8.37	3.609	29.04	0
2/13/23 9:15	2.268	170.1	10.1	3.633	29.04	0
2/13/23 9:30	3.223	167.4	8.52	3.663	29.03	0
2/13/23 9:45	3.596	172.7	8.42	3.74	29.03	0
2/13/23 10:00	3.304	183.6	9.42	3.754	29.03	0
2/13/23 10:15	3.397	181.1	8.78	3.818	29.03	0
2/13/23 10:30	3.489	187.2	9.46	3.911	29.03	0
2/13/23 10:45	3.781	179.1	9.35	4.012	29.03	0
2/13/23 11:00	3.315	177.9	9.62	4.185	29.03	0
2/13/23 11:15	3.805	179	9.11	4.187	29.02	0
2/13/23 11:30	3.895	183.1	9.9	4.294	29.02	0
2/13/23 11:45	4.95	174.2	8.58	4.216	29.01	0
2/13/23 12:00	4.453	174.7	8.99	4.311	29.01	0
2/13/23 12:15	4.196	175.5	9.26	4.465	29	0
2/13/23 12:30	3.81	172.2	11.14	4.618	29	0
2/13/23 12:45	3.394	173	9.6	4.784	28.99	0
2/13/23 13:00	2.74	163.5	12.76	4.901	28.99	0
2/13/23 13:15	3.09	178.8	14.63	5.045	28.98	0
2/13/23 13:30	4.304	190.4	11.35	5.22	28.98	0
2/13/23 13:45	4.345	199.4	10.06	5.324	28.97	0
2/13/23 14:00	5.526	202.3	11.35	5.306	28.97	0
2/13/23 14:15	6.122	201.5	11.31	5.122	28.96	0
2/13/23 14:30	6.99	207.3	7.546	4.996	28.96	0
2/13/23 14:45	4.934	191.7	12.21	4.811	28.95	0
2/13/23 15:00	4.972	184.9	11.38	4.836	28.95	0
2/13/23 15:15	6.631	193.4	10.37	5.084	28.94	0
2/13/23 15:30	7.255	191.7	8.29	4.813	28.95	0
2/13/23 15:45	5.451	193.4	8.6	4.676	28.96	0
2/13/23 16:00	5.417	193.2	8.01	4.555	28.95	0
2/13/23 16:15	5.237	199.5	10.3	4.458	28.95	0
2/13/23 16:30	3.264	222.9	46.53	4.199	28.96	0
2/13/23 16:45	4.212	18.73	20.16	1.412	28.97	0.03
2/13/23 17:00	1.246	49.47	15.56	0.534	28.96	0.01
2/13/23 17:15	1.116	100.2	15.36	1.051	28.96	0
2/13/23 17:30	1.605	78.97	8.73	1.217	28.96	0.01
2/13/23 17:45	1.528	109.6	9.41	1.094	28.95	0.01

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/13/23 18:00	1.662	160.5	26.04	1.179	28.95	0.01
2/13/23 18:15	1.214	113.7	42.27	1.186	28.95	0
2/13/23 18:30	2.849	36.76	9.19	1.169	28.96	0
2/13/23 18:45	3.822	21.6	24.26	1.363	28.97	0.01
2/13/23 19:00	3.561	10.16	26.17	1.76	28.98	0
2/13/23 19:15	1.76	0	0	0.969	28.99	0
2/13/23 19:30	1.57	177.5	78.95	0.791	29	0
2/13/23 19:45	2.056	160.6	29.35	0.312	29	0
2/13/23 20:00	1.843	144	74.28	0.139	29.02	0
2/13/23 20:15	1.334	138.8	63.78	0.058	29.02	0
2/13/23 20:30	2.211	139.8	15.37	0.039	29.03	0
2/13/23 20:45	2.076	167.9	16.94	0.055	29.03	0
2/13/23 21:00	1.848	180	11.37	-0.073	29.04	0
2/13/23 21:15	2.269	185.9	11.99	-0.127	29.04	0
2/13/23 21:30	2.301	211.4	5.805	-0.215	29.05	0
2/13/23 21:45	1.848	181.4	22.76	-0.203	29.06	0
2/13/23 22:00	1.838	136.2	23.43	-0.251	29.06	0
2/13/23 22:15	2.336	175.2	7.888	-0.147	29.07	0
2/13/23 22:30	3.228	155.8	9.3	-0.139	29.07	0
2/13/23 22:45	2.985	171.3	12.55	-0.148	29.07	0
2/13/23 23:00	2.625	163.8	24.29	-0.177	29.07	0
2/13/23 23:15	3.71	155.2	14.24	-0.185	29.07	0
2/13/23 23:30	3.434	154.7	10.11	-0.172	29.07	0
2/13/23 23:45	2.877	169.8	11.03	-0.188	29.07	0
2/14/23 0:00	2.466	171.5	15.1	-0.215	29.08	0
2/14/23 0:15	1.285	124.2	37.49	-0.261	29.07	0
2/14/23 0:30	1.491	108.1	12.88	-0.299	29.07	0
2/14/23 0:45	1.959	120.1	8.46	-0.285	29.07	0
2/14/23 1:00	2.334	119.4	8.81	-0.257	29.07	0
2/14/23 1:15	2.298	111.5	9.5	-0.29	29.07	0
2/14/23 1:30	2.29	114.5	11.62	-0.384	29.07	0
2/14/23 1:45	2.431	116	9.12	-0.409	29.07	0
2/14/23 2:00	2.742	119.5	7.704	-0.396	29.07	0
2/14/23 2:15	2.039	122.8	7.648	-0.45	29.08	0
2/14/23 2:30	1.818	118.5	7.459	-0.452	29.08	0
2/14/23 2:45	0.5	118.2	5.276	-0.458	29.08	0
2/14/23 3:00	0	0	0	-0.485	29.08	0
2/14/23 3:15	0	0	0	-0.48	29.09	0
2/14/23 3:30	0	0	0	-0.399	29.09	0
2/14/23 3:45	0	0	0	-0.424	29.09	0
2/14/23 4:00	0	0	0	-0.359	29.1	0
2/14/23 4:15	0	0	0	-0.53	29.1	0
2/14/23 4:30	0	0	0	-0.349	29.11	0
2/14/23 4:45	0	0	0	-0.147	29.11	0
2/14/23 5:00	0	0	0	-0.317	29.12	0
2/14/23 5:15	0	0	0	-0.496	29.12	0
2/14/23 5:30	0	0	0	-0.136	29.13	0
2/14/23 5:45	0	0	0	0.008	29.14	0
2/14/23 6:00	0	0	0	-0.35	29.14	0
2/14/23 6:15	0	0	0	-0.449	29.15	0
2/14/23 6:30	0	0	0	-0.471	29.16	0
2/14/23 6:45	0	0	0	-0.786	29.17	0
2/14/23 7:00	0	0	0	-0.889	29.18	0
2/14/23 7:15	0	0	0	-0.853	29.19	0
2/14/23 7:30	0	0	0	-0.81	29.2	0
2/14/23 7:45	0	0	0	-0.699	29.21	0
2/14/23 8:00	0	0	0	-0.569	29.21	0
2/14/23 8:15	0	0	0	-0.614	29.22	0
2/14/23 8:30	0	0	0	-0.709	29.23	0
2/14/23 8:45	0	0	0	-0.241	29.24	0
2/14/23 9:00	0	0	0	-0.015	29.25	0
2/14/23 9:15	0	0	0	0.43	29.26	0
2/14/23 9:30	0.882	3.986	7.638	0.569	29.26	0
2/14/23 9:45	3.181	6.464	18.88	0.987	29.27	0
2/14/23 10:00	2.367	17.41	14.11	1.18	29.28	0
2/14/23 10:15	3.605	9.26	14.18	1.247	29.29	0
2/14/23 10:30	3.654	8.45	16.65	1.376	29.29	0.01
2/14/23 10:45	4.143	10.72	13.4	1.357	29.3	0
2/14/23 11:00	3.869	14.41	14.09	1.532	29.31	0.01
2/14/23 11:15	3.464	21.62	9.84	1.586	29.31	0.01
2/14/23 11:30	2.864	18.05	14.25	1.715	29.32	0
2/14/23 11:45	2.723	24.47	13.05	1.879	29.32	0
2/14/23 12:00	2.438	15.16	15.83	2.18	29.33	0
2/14/23 12:15	2.805	23.31	11.47	2.305	29.33	0
2/14/23 12:30	2.683	17.79	20.56	2.571	29.33	0.01

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/14/23 12:45	1.452	6.858	37.23	3.332	29.34	0.01
2/14/23 13:00	1.585	13.38	17.3	2.415	29.35	0.02
2/14/23 13:15	1.984	9.53	14.15	2.282	29.35	0.02
2/14/23 13:30	1.536	10.65	12.61	2.26	29.35	0.05
2/14/23 13:45	1.068	28.58	15.52	2.473	29.36	0.01
2/14/23 14:00	1.096	33.07	14.53	2.448	29.36	0.02
2/14/23 14:15	1.059	21.22	14.94	2.343	29.37	0
2/14/23 14:30	2.093	18.01	10.47	2.259	29.37	0.02
2/14/23 14:45	1.054	47.18	24.82	2.463	29.37	0.01
2/14/23 15:00	0.948	35.14	14.83	2.633	29.38	0.02
2/14/23 15:15	1.214	42.55	10.04	2.638	29.38	0.01
2/14/23 15:30	1.453	22.06	12.21	2.49	29.39	0.02
2/14/23 15:45	1.495	14.91	9.84	2.458	29.4	0.01
2/14/23 16:00	0.739	14.77	19.11	2.406	29.4	0.01
2/14/23 16:15	0.675	338.5	21.32	2.585	29.41	0.01
2/14/23 16:30	0.993	8.25	7.448	2.427	29.41	0.02
2/14/23 16:45	1.03	2.156	17.57	2.265	29.41	0.01
2/14/23 17:00	0.901	27.82	22.81	2.306	29.41	0
2/14/23 17:15	0.448	81.7	41.54	1.943	29.42	0.01
2/14/23 17:30	0.705	188.8	3.864	2.013	29.42	0
2/14/23 17:45	0.385	172.7	21.39	2.042	29.43	0
2/14/23 18:00	0.806	82.4	10.57	1.931	29.43	0
2/14/23 18:15	1.417	91.6	10.32	1.435	29.43	0
2/14/23 18:30	1.655	106.4	16.02	1.247	29.43	0
2/14/23 18:45	0.702	130.2	12.73	1.313	29.44	0
2/14/23 19:00	0.82	120	18.71	1.51	29.44	0
2/14/23 19:15	1.214	68.1	10.89	1.093	29.44	0
2/14/23 19:30	1.341	351.2	45.65	0.614	29.45	0
2/14/23 19:45	0.237	329.3	22.13	0.428	29.45	0
2/14/23 20:00	0.239	23.44	4.262	0.587	29.46	0
2/14/23 20:15	0.519	74.31	9.51	0.299	29.46	0
2/14/23 20:30	1.034	84.2	6.792	0.271	29.47	0
2/14/23 20:45	0.786	103.6	11.96	0.208	29.47	0
2/14/23 21:00	0.96	108.9	12.85	0.46	29.48	0
2/14/23 21:15	0.718	92.5	6.76	-0.031	29.48	0
2/14/23 21:30	0.678	102.1	4.604	-0.212	29.48	0
2/14/23 21:45	0.939	125.2	8.23	0.359	29.48	0
2/14/23 22:00	1.063	124.3	4.315	0.626	29.48	0
2/14/23 22:15	0.816	128.6	4.247	0.224	29.48	0
2/14/23 22:30	1.036	126.2	6.071	-0.143	29.48	0
2/14/23 22:45	0.85	89.7	23.3	-0.248	29.49	0
2/14/23 23:00	0.673	92.3	12.41	-0.251	29.49	0
2/14/23 23:15	1.179	115.9	3.656	0.27	29.49	0
2/14/23 23:30	0.833	94.5	8.1	0.015	29.49	0
2/14/23 23:45	0.608	143	22.99	0.044	29.5	0
2/15/23 0:00	0.358	101.3	53.28	0.092	29.5	0
2/15/23 0:15	0.901	71.35	23.36	-0.165	29.5	0
2/15/23 0:30	1.036	93.4	3.131	-0.262	29.5	0
2/15/23 0:45	1.375	108.5	4.326	-0.329	29.5	0
2/15/23 1:00	1.535	111.2	2.133	-0.297	29.5	0
2/15/23 1:15	1.461	104.8	4.267	-0.343	29.5	0
2/15/23 1:30	1.182	99.2	3.512	-0.406	29.5	0
2/15/23 1:45	0.731	98.2	3.444	-0.247	29.5	0
2/15/23 2:00	0.795	81.2	14.37	-0.057	29.5	0
2/15/23 2:15	0.672	14.38	12.9	0.15	29.51	0
2/15/23 2:30	0.136	4.309	0.193	0.22	29.51	0
2/15/23 2:45	0.29	4.563	0.171	-0.07	29.52	0
2/15/23 3:00	0.083	32.79	9.71	-0.305	29.52	0
2/15/23 3:15	0.445	94.1	15.86	-0.417	29.52	0
2/15/23 3:30	0.899	154.4	12.8	-0.586	29.52	0
2/15/23 3:45	1.637	169.9	4.416	-1.469	29.52	0
2/15/23 4:00	2.163	174.1	11.74	-1.642	29.52	0
2/15/23 4:15	3.321	194	3.167	-2.219	29.52	0
2/15/23 4:30	3.515	192	4.045	-2.335	29.52	0
2/15/23 4:45	3.148	178	7.66	-2.271	29.52	0
2/15/23 5:00	2.798	173.5	7.157	-1.959	29.52	0
2/15/23 5:15	2.169	172.6	8.14	-1.804	29.52	0
2/15/23 5:30	2.016	165.6	9.59	-1.623	29.52	0
2/15/23 5:45	1.23	145.6	9.11	-1.362	29.52	0
2/15/23 6:00	0.861	115.5	23.14	-1.501	29.52	0
2/15/23 6:15	0.764	81.9	19.46	-1.287	29.52	0
2/15/23 6:30	1.299	138.3	14.11	-1.014	29.52	0
2/15/23 6:45	1.549	148.6	5.035	-0.885	29.52	0
2/15/23 7:00	1.169	140	6.496	-0.864	29.52	0
2/15/23 7:15	1.112	107.6	17.77	-0.876	29.52	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/15/23 7:30	1.138	105.8	4.999	-0.975	29.53	0
2/15/23 7:45	1.453	119.5	7.756	-0.948	29.53	0
2/15/23 8:00	1.343	113.1	6.86	-0.443	29.53	0
2/15/23 8:15	1.489	115	4.701	-0.066	29.53	0
2/15/23 8:30	1.83	129	7.696	0.179	29.53	0
2/15/23 8:45	1.948	141.7	8.83	0.454	29.53	0
2/15/23 9:00	2.018	162.4	11.23	0.323	29.53	0
2/15/23 9:15	1.712	162.5	11.7	0.492	29.53	0
2/15/23 9:30	1.55	194.8	13.78	0.687	29.54	0.01
2/15/23 9:45	1.766	216.7	8.74	0.633	29.54	0
2/15/23 10:00	1.558	218.8	17.14	1.095	29.54	0
2/15/23 10:15	1.436	156.5	18.05	1.816	29.55	0
2/15/23 10:30	1.036	140.4	17.42	2.202	29.55	0
2/15/23 10:45	0.74	123.3	15.72	2.679	29.55	0
2/15/23 11:00	0.543	138	30.3	3.621	29.55	0.02
2/15/23 11:15	1.139	194.3	26.28	3.375	29.55	0
2/15/23 11:30	1.332	201	21.7	3.334	29.55	0.02
2/15/23 11:45	1.527	176.9	18.63	3.503	29.55	0.01
2/15/23 12:00	1.638	185.3	24.55	3.705	29.55	0
2/15/23 12:15	1.44	197.4	26.27	4.059	29.54	0.02
2/15/23 12:30	1.775	136.1	27.62	4.45	29.54	0.01
2/15/23 12:45	1.949	183.7	29.92	4.406	29.53	0
2/15/23 13:00	2.074	191.3	23.59	4.541	29.52	0.01
2/15/23 13:15	1.885	173.6	33.5	4.839	29.52	0.01
2/15/23 13:30	1.944	193.8	41.81	4.764	29.52	0
2/15/23 13:45	1.235	194.5	75.41	5.094	29.51	0
2/15/23 14:00	1.367	194.5	69.65	5.387	29.51	0.01
2/15/23 14:15	2.145	179.9	43.64	5.353	29.5	0
2/15/23 14:30	2.227	182.9	24.78	5.429	29.5	0.01
2/15/23 14:45	1.099	122.7	69.83	5.668	29.49	0
2/15/23 15:00	1.962	152.3	43.09	5.794	29.49	0
2/15/23 15:15	1.908	176.6	30.24	5.904	29.49	0
2/15/23 15:30	0.821	147.8	42.41	6.12	29.49	0
2/15/23 15:45	1.498	194.8	32.5	6.351	29.49	0.01
2/15/23 16:00	2.02	214.3	12.11	5.994	29.49	0
2/15/23 16:15	1.945	207.1	16.76	5.961	29.49	0
2/15/23 16:30	1.634	192	16.47	5.983	29.48	0
2/15/23 16:45	1.669	194.9	16.81	5.753	29.48	0
2/15/23 17:00	0.398	234.8	37.99	5.934	29.48	0
2/15/23 17:15	0.695	236.8	11.71	5.431	29.48	0
2/15/23 17:30	0.212	104.5	34.91	5.043	29.48	0
2/15/23 17:45	0.221	100.4	55.13	4.826	29.48	0
2/15/23 18:00	1.464	2.099	17.92	3.812	29.48	0
2/15/23 18:15	1.619	18.74	9.17	2.923	29.48	0
2/15/23 18:30	1.599	25.53	6.009	2.769	29.48	0
2/15/23 18:45	1.227	29.12	7.331	2.658	29.48	0
2/15/23 19:00	1.215	46.15	6.557	2.71	29.48	0
2/15/23 19:15	0.905	64.48	7.418	2.525	29.47	0
2/15/23 19:30	0.929	53.4	8.38	2.244	29.47	0
2/15/23 19:45	0.835	62.96	15.24	2.044	29.46	0
2/15/23 20:00	0.918	103.7	7.842	2.039	29.46	0
2/15/23 20:15	0.748	107.6	7.13	1.98	29.46	0
2/15/23 20:30	0.909	123.3	12.69	2.192	29.45	0
2/15/23 20:45	0.704	108.3	14.97	2.35	29.45	0
2/15/23 21:00	1.521	127.3	8.69	2.448	29.45	0
2/15/23 21:15	1.025	119.6	8.27	2.007	29.45	0
2/15/23 21:30	1.281	105.6	5.461	1.288	29.45	0
2/15/23 21:45	1.533	113.5	8.25	1.401	29.44	0
2/15/23 22:00	1.751	152.1	10.33	1.701	29.44	0
2/15/23 22:15	1.634	151.8	9.02	1.538	29.44	0
2/15/23 22:30	1.3	149.5	8.38	1.2	29.44	0
2/15/23 22:45	1.979	147.4	8.88	1.373	29.43	0
2/15/23 23:00	2.546	143.9	7.988	1.437	29.43	0
2/15/23 23:15	2.12	131.6	6.376	1.414	29.43	0
2/15/23 23:30	1.71	138.1	7.149	1.472	29.42	0
2/15/23 23:45	1.79	141.9	5.242	1.559	29.42	0
2/16/23 0:00	1.527	139.1	4.552	1.63	29.41	0
2/16/23 0:15	1.039	121.9	13.72	1.593	29.41	0
2/16/23 0:30	0.554	125.9	22.21	1.45	29.41	0
2/16/23 0:45	1.57	145.6	9.62	1.759	29.4	0
2/16/23 1:00	0.594	108.3	21.59	1.801	29.39	0
2/16/23 1:15	0.47	99.3	10.17	1.81	29.39	0
2/16/23 1:30	1.202	149.4	6.075	1.801	29.38	0
2/16/23 1:45	1.443	148.1	2.918	1.71	29.38	0
2/16/23 2:00	0.739	123.1	18.55	1.515	29.37	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/16/23 2:15	0.413	48.65	15.97	1.376	29.37	0
2/16/23 2:30	0.737	39.57	9.04	1.548	29.37	0
2/16/23 2:45	0.63	68.91	20.02	1.379	29.36	0
2/16/23 3:00	1.045	104	12.04	1.234	29.36	0
2/16/23 3:15	0.802	43.97	32.85	1.284	29.35	0
2/16/23 3:30	0.933	14.68	18.26	1.002	29.35	0
2/16/23 3:45	1.239	71.16	9.54	1.516	29.35	0
2/16/23 4:00	0.848	125.2	16.4	2.071	29.34	0
2/16/23 4:15	0.522	143.8	14.59	1.949	29.34	0
2/16/23 4:30	0.622	164.5	15.76	1.778	29.34	0
2/16/23 4:45	1.456	178.1	15.24	1.87	29.34	0
2/16/23 5:00	1.367	196.6	16.19	1.648	29.33	0
2/16/23 5:15	1.018	174.1	13.5	1.852	29.33	0
2/16/23 5:30	1.31	165.3	8.38	2.001	29.33	0
2/16/23 5:45	1.208	156.2	9	1.952	29.33	0
2/16/23 6:00	1.035	157.2	16.87	2.062	29.32	0
2/16/23 6:15	1.466	182.3	10.24	2.057	29.32	0
2/16/23 6:30	1.976	191.3	7.216	1.783	29.32	0
2/16/23 6:45	2.39	178.4	9.9	1.747	29.32	0
2/16/23 7:00	2.077	169.6	12.16	1.673	29.32	0
2/16/23 7:15	2.239	137.8	9.13	1.687	29.32	0
2/16/23 7:30	2.692	128.8	6.443	1.753	29.32	0
2/16/23 7:45	2.981	144.7	7.932	2.253	29.33	0
2/16/23 8:00	2.894	148.9	6.272	2.175	29.33	0
2/16/23 8:15	2.628	169	9.48	2.14	29.33	0
2/16/23 8:30	2.453	165.9	9.64	2.302	29.34	0
2/16/23 8:45	1.736	141	12.53	2.421	29.34	0
2/16/23 9:00	1.268	137.1	22.69	2.762	29.34	0
2/16/23 9:15	1.931	185.7	12.17	2.786	29.35	0
2/16/23 9:30	2.002	172.1	13.41	2.811	29.35	0
2/16/23 9:45	2.255	189.4	12.72	3.223	29.35	0
2/16/23 10:00	1.786	190	13.01	3.095	29.35	0
2/16/23 10:15	1.662	182.1	21.3	3.871	29.35	0
2/16/23 10:30	1.385	153	15.46	4.668	29.35	0
2/16/23 10:45	1.284	115.5	30.52	5.845	29.35	0
2/16/23 11:00	1.714	127.2	19.56	6.024	29.35	0
2/16/23 11:15	1.441	115.3	13.94	6.172	29.35	0
2/16/23 11:30	1.93	153.5	29.9	6.738	29.35	0
2/16/23 11:45	1.75	152.5	16.49	6.827	29.34	0
2/16/23 12:00	1.64	188.8	20.29	6.721	29.34	0
2/16/23 12:15	2.925	191	18.42	6.805	29.33	0
2/16/23 12:30	2.292	211.7	17.19	6.964	29.33	0
2/16/23 12:45	2.152	178.2	34.22	7.051	29.33	0
2/16/23 13:00	2.481	193.8	17.88	7.051	29.33	0
2/16/23 13:15	3.457	195.9	10.43	6.935	29.33	0
2/16/23 13:30	4.114	199.1	8.28	6.586	29.33	0
2/16/23 13:45	4.22	220.2	8.96	6.447	29.33	0
2/16/23 14:00	2.745	201.7	13.84	6.441	29.33	0
2/16/23 14:15	2.442	183.9	13.76	6.546	29.33	0
2/16/23 14:30	2.77	193.4	17.51	6.487	29.33	0
2/16/23 14:45	2.184	179.5	12.42	6.412	29.33	0
2/16/23 15:00	1.744	182.2	12.16	6.399	29.33	0
2/16/23 15:15	1.707	189.5	14.67	6.407	29.33	0
2/16/23 15:30	0.98	187.6	15.39	6.425	29.34	0
2/16/23 15:45	0.641	184.8	15.95	6.409	29.34	0
2/16/23 16:00	0.298	252.1	32.44	6.431	29.34	0
2/16/23 16:15	0.554	102.6	17.38	6.357	29.34	0
2/16/23 16:30	1.205	96.5	6.038	6.187	29.33	0
2/16/23 16:45	1.161	103.7	18.27	6.042	29.33	0
2/16/23 17:00	1.465	124.5	7.669	6.008	29.33	0
2/16/23 17:15	0.703	121.2	23.92	6.026	29.34	0
2/16/23 17:30	0.309	332.9	32.61	5.993	29.34	0
2/16/23 17:45	0.463	275.1	18.19	5.706	29.35	0
2/16/23 18:00	0.048	352.3	0.844	5.778	29.35	0
2/16/23 18:15	0.527	98.9	19.97	5.705	29.35	0
2/16/23 18:30	1.447	128.3	21.26	5.471	29.35	0
2/16/23 18:45	1.743	141.9	27.94	5.198	29.35	0
2/16/23 19:00	1.262	126.7	12.54	4.981	29.35	0
2/16/23 19:15	1.97	119.8	7.178	4.985	29.35	0
2/16/23 19:30	2.106	149.8	9.21	4.791	29.35	0
2/16/23 19:45	2.147	155.3	11.56	4.705	29.35	0
2/16/23 20:00	1.825	166.5	21.47	4.42	29.35	0
2/16/23 20:15	2.163	166.7	15.51	4.294	29.35	0
2/16/23 20:30	1.486	150.4	10.99	4.413	29.35	0
2/16/23 20:45	2.003	138.5	6.997	4.519	29.35	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/16/23 21:00	1.815	152.9	15.39	4.523	29.35	0
2/16/23 21:15	2.031	164.7	11.83	4.341	29.35	0
2/16/23 21:30	2.136	139.2	9.45	4.496	29.35	0
2/16/23 21:45	2.128	156	11.21	4.5	29.35	0
2/16/23 22:00	2.286	167.9	13.61	4.7	29.35	0
2/16/23 22:15	2.357	160.1	9.28	4.792	29.36	0
2/16/23 22:30	1.777	158.9	16.43	4.684	29.36	0
2/16/23 22:45	1.752	155.3	18.74	4.582	29.36	0
2/16/23 23:00	2.164	156.3	8.25	4.618	29.36	0
2/16/23 23:15	1.929	142.9	9.74	4.882	29.37	0
2/16/23 23:30	1.557	153.7	14.91	4.861	29.37	0
2/16/23 23:45	2.142	170.9	16.49	4.27	29.37	0
2/17/23 0:00	2.252	144	12.53	4.609	29.37	0
2/17/23 0:15	2.243	139.7	7.161	4.679	29.37	0
2/17/23 0:30	2.301	138.9	6.872	4.618	29.37	0
2/17/23 0:45	2.827	145	7.503	4.604	29.37	0
2/17/23 1:00	2.576	166.7	15.59	4.374	29.38	0
2/17/23 1:15	2.476	154.6	13.4	4.361	29.38	0
2/17/23 1:30	2.08	155.2	13.14	4.872	29.38	0
2/17/23 1:45	2.648	160.5	11.4	4.685	29.38	0
2/17/23 2:00	1.889	144.2	10.09	4.338	29.38	0
2/17/23 2:15	2.376	128.3	11.68	4.224	29.38	0
2/17/23 2:30	3.363	137.5	13.1	4.898	29.38	0
2/17/23 2:45	3.222	145.8	13.47	5.159	29.38	0
2/17/23 3:00	2.877	134.8	11.2	5.023	29.38	0
2/17/23 3:15	3.461	151.9	11.81	5.009	29.38	0
2/17/23 3:30	3.106	159.6	14.46	4.942	29.38	0
2/17/23 3:45	2.506	137.9	12.23	4.611	29.38	0.01
2/17/23 4:00	2.616	133.4	10.97	4.278	29.38	0
2/17/23 4:15	2.237	120.7	9.29	3.704	29.38	0.01
2/17/23 4:30	2.447	102.4	11.62	3.265	29.38	0.01
2/17/23 4:45	2.718	95.3	8.35	2.995	29.38	0
2/17/23 5:00	2.585	91.6	9.65	2.89	29.38	0.02
2/17/23 5:15	2.766	95.2	8.91	2.823	29.38	0.01
2/17/23 5:30	2.614	102.5	8.3	2.831	29.38	0.03
2/17/23 5:45	2.025	101.1	9.84	2.894	29.38	0.01
2/17/23 6:00	1.329	99.1	8.04	2.94	29.38	0
2/17/23 6:15	0.872	55.83	15.96	2.929	29.38	0.01
2/17/23 6:30	1.001	58.38	10.32	2.905	29.38	0
2/17/23 6:45	0.65	39.26	19.59	3.005	29.38	0.02
2/17/23 7:00	0.429	1.345	13.73	3.059	29.38	0.02
2/17/23 7:15	1.094	19.2	7.507	3.127	29.39	0.01
2/17/23 7:30	1.49	23.39	10.87	3.119	29.39	0.01
2/17/23 7:45	1.148	29.36	10.16	3.121	29.39	0.01
2/17/23 8:00	0.823	44.71	11.96	3.218	29.39	0
2/17/23 8:15	0.857	51.34	9.35	3.34	29.39	0.01
2/17/23 8:30	1.034	73.69	24.85	3.417	29.4	0
2/17/23 8:45	0.266	83.8	27.61	3.441	29.4	0.01
2/17/23 9:00	0.353	43.25	59.33	3.498	29.41	0.02
2/17/23 9:15	0.677	48.11	69.88	3.579	29.41	0.02
2/17/23 9:30	0.624	331.4	30.89	3.59	29.42	0.03
2/17/23 9:45	0.614	25.58	5.822	3.625	29.42	0.02
2/17/23 10:00	1.14	26.42	7.793	3.643	29.42	0.01
2/17/23 10:15	0.88	21.46	38.59	3.664	29.42	0.01
2/17/23 10:30	0.638	61.57	20.3	3.76	29.43	0
2/17/23 10:45	1.511	119.4	15.51	3.964	29.42	0
2/17/23 11:00	1.852	137.1	13.15	4.036	29.42	0
2/17/23 11:15	2.383	160.2	12.59	4.085	29.43	0.01
2/17/23 11:30	2.901	174.9	9.96	4.039	29.43	0
2/17/23 11:45	3.134	178	10.81	4.177	29.43	0
2/17/23 12:00	4.091	188.2	9.46	4.198	29.42	0
2/17/23 12:15	3.756	179.2	8.54	4.208	29.41	0
2/17/23 12:30	3.102	181.6	7.754	4.28	29.41	0
2/17/23 12:45	2.624	169.5	9.83	4.377	29.41	0
2/17/23 13:00	2.684	161.2	7.836	4.472	29.42	0
2/17/23 13:15	2.543	158.8	10.28	4.611	29.42	0
2/17/23 13:30	2.359	164.9	10.27	4.724	29.42	0
2/17/23 13:45	2.902	168.7	9.04	4.937	29.41	0
2/17/23 14:00	2.463	180.5	11.88	5.164	29.42	0
2/17/23 14:15	2.12	194.2	19.52	5.315	29.42	0
2/17/23 14:30	2.335	180.8	14.38	5.398	29.42	0
2/17/23 14:45	2.702	188.6	20.75	5.523	29.42	0
2/17/23 15:00	2.845	199.4	12.41	5.566	29.41	0
2/17/23 15:15	3.222	210.8	10.88	5.824	29.41	0
2/17/23 15:30	2.244	207.9	15.11	5.876	29.4	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/17/23 15:45	1.728	196.9	20.86	6.198	29.4	0
2/17/23 16:00	1.757	180.5	16.01	6.107	29.39	0
2/17/23 16:15	1.604	150.7	26.26	5.984	29.4	0
2/17/23 16:30	1.294	139.1	14.04	5.837	29.4	0
2/17/23 16:45	1.093	133.5	17.77	5.625	29.4	0
2/17/23 17:00	0.293	98.2	19.35	5.447	29.39	0
2/17/23 17:15	0.728	69.85	20.93	5.208	29.39	0
2/17/23 17:30	1.38	91.2	16.91	4.967	29.39	0
2/17/23 17:45	2.161	106.4	7.626	4.951	29.38	0
2/17/23 18:00	2.003	100.1	5.22	4.686	29.38	0
2/17/23 18:15	1.685	99.5	6.85	4.652	29.39	0
2/17/23 18:30	1.963	98.2	6.912	4.567	29.38	0
2/17/23 18:45	1.843	97.4	7.725	4.492	29.38	0
2/17/23 19:00	1.797	107.6	8.94	4.486	29.38	0
2/17/23 19:15	2.642	126.1	5.57	4.435	29.37	0
2/17/23 19:30	2.133	121.3	9.06	4.384	29.37	0
2/17/23 19:45	1.681	129.8	7.083	4.428	29.38	0
2/17/23 20:00	2.064	137.6	9.45	4.37	29.37	0
2/17/23 20:15	2.422	141.4	10.37	4.414	29.37	0
2/17/23 20:30	1.715	117.6	13.48	4.5	29.37	0
2/17/23 20:45	1.499	129.3	32.39	4.475	29.38	0.01
2/17/23 21:00	2.361	207.9	26.37	4.246	29.38	0
2/17/23 21:15	1.891	189.1	23.57	3.873	29.38	0
2/17/23 21:30	2.362	170.2	8.45	3.738	29.37	0
2/17/23 21:45	1.636	157.1	13.64	3.68	29.37	0
2/17/23 22:00	1.707	171	19.73	3.822	29.38	0
2/17/23 22:15	2.366	178.3	12.77	4.066	29.38	0
2/17/23 22:30	2.448	169.4	9.35	3.96	29.38	0
2/17/23 22:45	2.552	160.6	8.84	3.815	29.37	0
2/17/23 23:00	2.567	147.7	8.99	3.535	29.37	0
2/17/23 23:15	2.388	149	11.13	3.606	29.37	0
2/17/23 23:30	2.013	144.8	20.26	3.66	29.37	0
2/17/23 23:45	2.488	137.7	7.558	3.541	29.37	0
2/18/23 0:00	3.253	147.1	6.323	3.587	29.37	0
2/18/23 0:15	3.428	144.2	6.614	3.5	29.36	0
2/18/23 0:30	3.408	143.2	6.071	3.369	29.35	0
2/18/23 0:45	2.658	131.3	8.16	3.437	29.35	0
2/18/23 1:00	2.411	122.7	9.95	3.654	29.36	0
2/18/23 1:15	2.419	123.3	8.48	3.565	29.36	0
2/18/23 1:30	2.608	130.7	10.9	3.589	29.36	0
2/18/23 1:45	2.959	142.4	8.49	3.653	29.36	0
2/18/23 2:00	3.45	138.8	8.6	3.737	29.35	0
2/18/23 2:15	3.615	140	6.713	3.707	29.34	0
2/18/23 2:30	3.598	142	7.653	3.715	29.34	0
2/18/23 2:45	3.206	142.9	7.271	3.705	29.34	0
2/18/23 3:00	2.894	143.6	6.73	3.655	29.33	0
2/18/23 3:15	2.508	137.9	9.14	3.638	29.33	0
2/18/23 3:30	2.486	137.3	7.739	3.666	29.32	0
2/18/23 3:45	3.52	141.8	6.799	3.711	29.31	0
2/18/23 4:00	3.516	144.9	7.838	3.757	29.31	0
2/18/23 4:15	3.307	144.9	8.2	3.766	29.31	0
2/18/23 4:30	3.186	165.2	11.99	3.824	29.31	0
2/18/23 4:45	2.686	157.6	12.14	3.808	29.31	0
2/18/23 5:00	3.03	146.1	6.038	3.641	29.31	0
2/18/23 5:15	2.768	154.3	7.976	3.657	29.31	0
2/18/23 5:30	3.489	148.1	5.666	3.552	29.3	0
2/18/23 5:45	3.723	150.3	9.29	3.445	29.29	0
2/18/23 6:00	4.396	158.4	8.06	3.393	29.29	0
2/18/23 6:15	4.259	162.6	10.07	3.299	29.29	0
2/18/23 6:30	4.145	169.1	8.06	3.273	29.29	0
2/18/23 6:45	4.47	170.8	7.371	3.255	29.29	0
2/18/23 7:00	3.008	159.8	14.53	3.257	29.29	0
2/18/23 7:15	3.501	155.9	14.35	3.239	29.29	0
2/18/23 7:30	3.791	144.6	8.04	3.199	29.28	0
2/18/23 7:45	3.043	133.3	8.58	3.172	29.28	0
2/18/23 8:00	3.151	137.7	7.509	3.203	29.28	0
2/18/23 8:15	2.503	128.1	8.92	3.28	29.28	0
2/18/23 8:30	2.773	134	8.41	3.443	29.28	0
2/18/23 8:45	3.235	139.1	8.43	3.512	29.28	0
2/18/23 9:00	2.576	132	10.51	3.611	29.28	0
2/18/23 9:15	1.737	118	13.06	3.722	29.28	0
2/18/23 9:30	1.548	102.4	13.35	3.77	29.29	0
2/18/23 9:45	1.862	110.7	8.67	3.798	29.29	0
2/18/23 10:00	2.23	107.2	7.764	3.833	29.29	0
2/18/23 10:15	2.32	105.4	8.63	3.936	29.29	0

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/18/23 10:30	2.164	104.8	11.06	4.086	29.29	0.01
2/18/23 10:45	2.013	112.6	8.89	4.328	29.28	0
2/18/23 11:00	2.341	127	8.67	4.533	29.28	0.01
2/18/23 11:15	2.165	122.1	7.852	4.738	29.28	0
2/18/23 11:30	2.462	122.5	10.02	4.861	29.28	0
2/18/23 11:45	2.525	119.9	11.31	5.029	29.28	0
2/18/23 12:00	2.483	120.3	10.81	5.093	29.27	0
2/18/23 12:15	2.34	123.1	11.01	5.214	29.27	0
2/18/23 12:30	2.619	136.4	11.55	5.379	29.27	0
2/18/23 12:45	2.583	131.8	9.04	5.415	29.27	0
2/18/23 13:00	1.96	142.4	9.35	5.487	29.27	0.01
2/18/23 13:15	2.492	162	14.81	5.739	29.26	0
2/18/23 13:30	2.646	170.7	9.94	5.836	29.26	0
2/18/23 13:45	1.908	174.6	16.39	5.971	29.26	0
2/18/23 14:00	1.098	240.4	28.2	6.129	29.27	0
2/18/23 14:15	2.265	288.6	15.21	6.299	29.28	0
2/18/23 14:30	2.558	284.5	20.15	6.385	29.27	0.01
2/18/23 14:45	3.411	258.2	15.76	6.442	29.28	0
2/18/23 15:00	2.451	274.6	18.53	6.538	29.28	0
2/18/23 15:15	2.908	266.3	13.81	6.556	29.28	0
2/18/23 15:30	2.483	264.2	9.13	6.617	29.28	0
2/18/23 15:45	2.253	267	11.3	6.685	29.28	0
2/18/23 16:00	1.651	306.1	17.84	6.87	29.28	0
2/18/23 16:15	1.763	336.9	18.07	6.841	29.28	0
2/18/23 16:30	2.051	311.4	9.35	6.751	29.29	0
2/18/23 16:45	1.87	350.6	23.78	6.478	29.29	0
2/18/23 17:00	1.665	349	27.19	6.243	29.3	0
2/18/23 17:15	1.006	303.1	26.46	6.075	29.3	0
2/18/23 17:30	2.303	299.8	6.901	6.068	29.3	0
2/18/23 17:45	2.88	316.2	6.428	5.908	29.3	0
2/18/23 18:00	3.027	316.4	5.799	5.833	29.31	0
2/18/23 18:15	2.767	321.7	8.89	5.732	29.31	0
2/18/23 18:30	2.392	311.2	7.035	5.717	29.32	0
2/18/23 18:45	2.06	294.1	18.74	5.778	29.33	0
2/18/23 19:00	1.538	322.8	79.18	5.74	29.33	0
2/18/23 19:15	2.162	298.1	38.47	5.615	29.33	0
2/18/23 19:30	1.092	74.51	92.7	5.627	29.33	0
2/18/23 19:45	1.479	346.4	40.21	5.517	29.34	0
2/18/23 20:00	1.296	18.42	33.24	5.376	29.35	0
2/18/23 20:15	1.581	358.9	28.2	5.319	29.35	0
2/18/23 20:30	1.624	353.8	21.77	5.312	29.36	0
2/18/23 20:45	1.41	21.48	37.32	5.213	29.37	0
2/18/23 21:00	1.61	97.6	22.99	4.958	29.37	0
2/18/23 21:15	1.359	147.4	29.12	4.815	29.38	0
2/18/23 21:30	1.835	95	12.19	4.938	29.38	0
2/18/23 21:45	0.897	99.6	32.93	4.969	29.39	0
2/18/23 22:00	0.933	152.3	36.54	5.05	29.39	0
2/18/23 22:15	0.639	169.9	16.64	5.207	29.39	0
2/18/23 22:30	0.565	151.3	19.35	5.239	29.38	0
2/18/23 22:45	0.556	145.2	50.34	4.695	29.38	0
2/18/23 23:00	0.941	138.9	69.09	4.588	29.38	0
2/18/23 23:15	0.181	69.83	4.73	4.359	29.38	0
2/18/23 23:30	0.637	88.1	45.55	4.362	29.38	0
2/18/23 23:45	0.524	46.88	16.18	4.273	29.39	0
2/19/23 0:00	0.696	116	36.08	4.308	29.39	0
2/19/23 0:15	0.847	141.1	5.626	4.482	29.39	0
2/19/23 0:30	0.854	89.4	47.33	4.434	29.4	0
2/19/23 0:45	0.756	132.6	49.89	4.26	29.4	0
2/19/23 1:00	1.151	153.6	10.12	4.259	29.41	0
2/19/23 1:15	0.802	163.1	12.27	4.349	29.41	0.01
2/19/23 1:30	0.943	131.4	14.01	4.393	29.41	0
2/19/23 1:45	0.502	100.7	10.1	4.202	29.41	0
2/19/23 2:00	0.923	98.9	15.53	4.213	29.42	0
2/19/23 2:15	0.865	110.7	6.363	4.235	29.42	0
2/19/23 2:30	0.785	105.5	12.3	4.272	29.42	0
2/19/23 2:45	1.146	119.4	14.59	4.303	29.41	0
2/19/23 3:00	1.79	156	11.87	4.364	29.4	0
2/19/23 3:15	1.585	176.3	11.62	4.496	29.41	0
2/19/23 3:30	1.4	161.4	34.34	4.545	29.41	0
2/19/23 3:45	1.526	166	17.15	4.427	29.41	0.01
2/19/23 4:00	1.955	172.4	6.021	4.437	29.4	0.01
2/19/23 4:15	2.199	174.7	6.502	4.386	29.4	0
2/19/23 4:30	2.604	166.5	7.819	4.378	29.41	0.01
2/19/23 4:45	2.984	168.8	6.468	4.393	29.41	0
2/19/23 5:00	2.96	175	10.89	4.372	29.41	0.01

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/19/23 5:15	2.564	181.5	10.81	4.336	29.42	0
2/19/23 5:30	2.032	191.6	13.5	4.333	29.42	0
2/19/23 5:45	2.412	170.1	13.7	4.322	29.42	0
2/19/23 6:00	2.614	167.6	11.63	4.337	29.42	0
2/19/23 6:15	2.589	146.8	16.27	4.326	29.42	0
2/19/23 6:30	2.493	144.3	8.45	4.311	29.42	0
2/19/23 6:45	2.75	158	13.88	4.321	29.42	0.01
2/19/23 7:00	2.657	158.7	13.24	4.323	29.41	0
2/19/23 7:15	1.835	137.8	13.88	4.279	29.41	0
2/19/23 7:30	1.676	136.2	14.5	4.27	29.41	0
2/19/23 7:45	2.228	149.7	18.92	4.344	29.41	0
2/19/23 8:00	1.505	122.9	13.88	4.35	29.41	0.01
2/19/23 8:15	1.386	113	13.14	4.369	29.41	0
2/19/23 8:30	1.186	121.2	16.21	4.411	29.42	0.01
2/19/23 8:45	1.173	147.7	16.38	4.502	29.43	0.01
2/19/23 9:00	1.275	119.1	15.22	4.564	29.43	0
2/19/23 9:15	1.629	119.9	9.85	4.597	29.43	0.01
2/19/23 9:30	1.922	125	10.46	4.639	29.43	0
2/19/23 9:45	2.404	128.5	10.63	4.713	29.43	0
2/19/23 10:00	3.589	144.4	7.735	4.849	29.42	0.01
2/19/23 10:15	3.702	153.4	13.39	4.995	29.42	0
2/19/23 10:30	3.748	158.2	11.42	5.194	29.43	0
2/19/23 10:45	3.116	155.6	12.38	5.288	29.43	0
2/19/23 11:00	3.272	149.7	11.02	5.279	29.43	0
2/19/23 11:15	2.947	136.8	11.46	5.329	29.43	0
2/19/23 11:30	3.952	143.6	8.35	5.335	29.43	0
2/19/23 11:45	3.599	140.6	7.77	5.415	29.42	0
2/19/23 12:00	3.923	144.9	7.136	5.425	29.41	0
2/19/23 12:15	3.486	147.3	9.62	5.471	29.41	0
2/19/23 12:30	2.764	136.4	13.82	5.488	29.41	0
2/19/23 12:45	4.657	155.3	11.07	5.501	29.4	0
2/19/23 13:00	4.769	153.9	9.48	5.458	29.39	0
2/19/23 13:15	4.44	144.7	8.42	5.343	29.4	0
2/19/23 13:30	3.904	151.4	10.47	5.339	29.4	0
2/19/23 13:45	3.597	146.1	11.37	5.313	29.4	0.01
2/19/23 14:00	3.159	147.1	10.02	5.312	29.4	0.01
2/19/23 14:15	3.291	140.9	11.72	5.343	29.39	0.01
2/19/23 14:30	3.332	140.8	8.95	5.411	29.39	0
2/19/23 14:45	3.861	143.4	8.35	5.515	29.39	0.02
2/19/23 15:00	4.152	148.7	9.03	5.594	29.38	0
2/19/23 15:15	4.131	147.8	8.81	5.705	29.37	0.01
2/19/23 15:30	3.131	137.4	10.91	5.813	29.38	0.01
2/19/23 15:45	3.215	138	7.401	5.944	29.37	0.01
2/19/23 16:00	3.136	138	9.17	6.082	29.37	0
2/19/23 16:15	3.617	146.2	9.8	6.286	29.36	0.01
2/19/23 16:30	3.471	150.3	8.99	6.449	29.36	0
2/19/23 16:45	3.517	165.7	8.43	6.649	29.37	0
2/19/23 17:00	3.935	170.6	8.04	6.712	29.36	0.01
2/19/23 17:15	4.978	170.6	7.516	6.837	29.35	0.01
2/19/23 17:30	4.45	178	8.38	6.846	29.36	0
2/19/23 17:45	4.193	180.5	9.25	6.875	29.36	0
2/19/23 18:00	4.558	181.4	10.31	6.857	29.36	0
2/19/23 18:15	4.937	194	10.51	6.973	29.36	0
2/19/23 18:30	5.076	195.8	11.34	7.074	29.37	0
2/19/23 18:45	5.42	212	8.9	7.016	29.37	0.01
2/19/23 19:00	4.38	200.7	10	6.73	29.37	0.02
2/19/23 19:15	3.569	187.9	11.06	6.631	29.38	0.01
2/19/23 19:30	2.806	178.3	10.06	6.531	29.38	0
2/19/23 19:45	2.903	169.7	7.861	6.493	29.38	0.02
2/19/23 20:00	3.219	170	7.432	6.444	29.38	0.01
2/19/23 20:15	4.406	168.6	6.371	6.428	29.38	0
2/19/23 20:30	3.736	153.9	8.36	6.292	29.39	0
2/19/23 20:45	3.974	153.1	7.493	6.252	29.39	0
2/19/23 21:00	4.077	148.3	5.944	6.177	29.39	0.01
2/19/23 21:15	3.796	165.5	11.49	6.177	29.39	0
2/19/23 21:30	3.643	172.6	8.43	6.239	29.39	0
2/19/23 21:45	3.193	168.1	8.61	6.266	29.4	0
2/19/23 22:00	3.242	156.2	10.78	6.225	29.4	0.01
2/19/23 22:15	3.508	149.1	6.765	6.097	29.39	0.01
2/19/23 22:30	3.338	143.8	7.764	6.059	29.39	0.01
2/19/23 22:45	3.632	148.6	6.81	6.054	29.39	0.01
2/19/23 23:00	3.625	142.9	8.16	6.025	29.39	0.01
2/19/23 23:15	4.092	147.4	6.119	6.011	29.38	0
2/19/23 23:30	3.914	148.9	7.33	6.016	29.38	0
2/19/23 23:45	3.966	151.6	10.39	6.016	29.38	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/20/23 0:00	3.935	153.9	8.95	6.077	29.38	0
2/20/23 0:15	3.814	159.8	9.7	6.059	29.38	0
2/20/23 0:30	3.763	165.9	8.22	6.16	29.38	0
2/20/23 0:45	3.572	153.3	8.82	6.059	29.38	0.01
2/20/23 1:00	3.129	153.1	8.95	5.991	29.38	0
2/20/23 1:15	3.384	145.3	8.06	6.005	29.38	0
2/20/23 1:30	3.759	150.3	7.734	6.093	29.38	0.01
2/20/23 1:45	3.193	158.6	8.32	6.117	29.38	0.01
2/20/23 2:00	3.121	157.9	11.82	6.144	29.38	0
2/20/23 2:15	3.108	162.1	10.16	6.161	29.39	0
2/20/23 2:30	3.942	167	7.305	6.266	29.38	0.01
2/20/23 2:45	3.302	162.2	9.38	6.287	29.38	0
2/20/23 3:00	3.977	169.7	8.67	6.357	29.38	0
2/20/23 3:15	5.159	166.9	6.873	6.372	29.37	0.01
2/20/23 3:30	4.415	164.9	8.55	6.425	29.38	0
2/20/23 3:45	4.364	167.8	7.405	6.364	29.37	0.01
2/20/23 4:00	4.328	166.5	8.14	6.389	29.38	0.01
2/20/23 4:15	4.278	162.1	9.05	6.382	29.38	0
2/20/23 4:30	4.229	162.7	7.997	6.297	29.37	0.01
2/20/23 4:45	4.979	168.5	7.591	6.359	29.37	0
2/20/23 5:00	4.912	168.2	8.03	6.399	29.37	0
2/20/23 5:15	4.537	159.6	8.61	6.33	29.36	0
2/20/23 5:30	4.156	162	10.59	6.322	29.36	0.01
2/20/23 5:45	4.486	164.7	9.14	6.346	29.36	0
2/20/23 6:00	4.741	167	9.74	6.352	29.36	0
2/20/23 6:15	5.338	171	9.97	6.354	29.36	0
2/20/23 6:30	4.336	170.6	10.57	6.348	29.37	0.01
2/20/23 6:45	4.273	173.3	8.81	6.307	29.37	0.01
2/20/23 7:00	5.268	167.6	9.81	6.315	29.36	0.01
2/20/23 7:15	5.358	170.2	8.1	6.301	29.36	0
2/20/23 7:30	5.119	169.9	7.945	6.194	29.36	0.01
2/20/23 7:45	4.792	170.3	8.16	6.167	29.37	0
2/20/23 8:00	4.843	166.6	9.36	6.205	29.37	0.02
2/20/23 8:15	4.801	161.6	9.91	6.24	29.37	0.01
2/20/23 8:30	5.221	156.6	9.85	6.219	29.36	0.02
2/20/23 8:45	5.244	168.3	7.675	6.249	29.36	0
2/20/23 9:00	5.695	169.5	7.92	6.307	29.36	0.01
2/20/23 9:15	5.325	165.8	9.83	6.242	29.36	0.01
2/20/23 9:30	5.543	160.1	9.79	6.269	29.36	0
2/20/23 9:45	5.815	166.8	8.96	6.25	29.36	0.02
2/20/23 10:00	6.116	170.7	10.79	6.18	29.35	0.01
2/20/23 10:15	6.313	174.4	8.64	6.214	29.35	0
2/20/23 10:30	5.948	175.6	9.31	6.239	29.36	0.01
2/20/23 10:45	6.956	171.9	9.07	6.222	29.34	0
2/20/23 11:00	6.544	169.4	8.75	6.301	29.33	0.01
2/20/23 11:15	6.922	169.9	8.09	6.381	29.32	0
2/20/23 11:30	7.024	172.1	11.08	6.403	29.31	0
2/20/23 11:45	6.288	185.2	10.79	6.389	29.32	0
2/20/23 12:00	7.363	189.8	9.55	6.393	29.3	0
2/20/23 12:15	7.007	190.7	10.94	6.427	29.3	0
2/20/23 12:30	7.307	184.1	10.13	6.462	29.29	0
2/20/23 12:45	7.178	182.5	10.64	6.582	29.3	0
2/20/23 13:00	8.23	181.3	10.86	6.717	29.29	0
2/20/23 13:15	7.266	171.1	10.07	6.755	29.29	0
2/20/23 13:30	7.281	164	10.88	6.738	29.28	0
2/20/23 13:45	7.05	167.6	10.52	6.649	29.27	0
2/20/23 14:00	6.886	162.2	14.18	6.703	29.25	0
2/20/23 14:15	7.049	166	11.19	6.77	29.24	0
2/20/23 14:30	6.734	164.5	10.86	6.649	29.24	0
2/20/23 14:45	7.165	157.3	10.49	6.51	29.22	0
2/20/23 15:00	6.515	165.4	8.86	6.487	29.22	0
2/20/23 15:15	7.524	164.1	8.72	6.545	29.2	0
2/20/23 15:30	7.802	170.3	10.36	6.636	29.19	0
2/20/23 15:45	7.53	171.1	10.16	6.881	29.18	0
2/20/23 16:00	7.168	173.9	9.99	7.132	29.17	0
2/20/23 16:15	9.03	184.2	9.5	7.313	29.15	0
2/20/23 16:30	7.583	190.3	10.01	7.184	29.14	0
2/20/23 16:45	8.35	186.6	11.58	7.264	29.13	0
2/20/23 17:00	7.493	186.2	10.38	7.308	29.11	0
2/20/23 17:15	7.428	186.2	9.6	7.329	29.09	0
2/20/23 17:30	8.6	197	10.42	7.282	29.08	0
2/20/23 17:45	8.5	197.7	11.7	6.95	29.07	0.01
2/20/23 18:00	9.69	186	10.75	6.606	29.03	0
2/20/23 18:15	8.19	187.7	13.32	6.4	29.02	0
2/20/23 18:30	8.6	195.4	9.57	6.36	29.02	0.01

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/20/23 18:45	9.75	192.1	9.56	6.334	29	0.01
2/20/23 19:00	9.57	195.5	9.33	6.278	28.98	0.01
2/20/23 19:15	9.63	195.8	8.7	6.311	28.97	0.02
2/20/23 19:30	8.84	201.6	8.68	6.35	28.96	0.01
2/20/23 19:45	8.94	205.4	7.693	6.362	28.96	0.02
2/20/23 20:00	9.63	199.9	7.767	6.382	28.95	0.03
2/20/23 20:15	8.91	197.5	8.62	6.382	28.93	0.02
2/20/23 20:30	8.96	199.5	7.569	6.423	28.92	0.02
2/20/23 20:45	8.91	197.5	8.39	6.452	28.91	0.01
2/20/23 21:00	7.671	200.1	8.66	6.457	28.9	0.01
2/20/23 21:15	7.152	207.8	8.59	6.484	28.9	0
2/20/23 21:30	7.599	209.5	8.94	6.547	28.9	0.01
2/20/23 21:45	8.95	211.8	7.243	6.585	28.88	0.01
2/20/23 22:00	8.68	208.9	8.41	6.737	28.88	0
2/20/23 22:15	9.08	210.8	9.11	6.783	28.87	0
2/20/23 22:30	10.07	209.1	7.912	6.546	28.85	0
2/20/23 22:45	8.51	214.4	10.77	6.158	28.86	0
2/20/23 23:00	7.249	215.7	9.36	5.828	28.87	0
2/20/23 23:15	6.62	224	10.8	5.58	28.88	0
2/20/23 23:30	6.261	227.6	11.59	5.281	28.89	0
2/20/23 23:45	6.241	225.9	8.98	5.03	28.89	0
2/21/23 0:00	7.815	224.8	10.11	4.924	28.89	0
2/21/23 0:15	7.202	222.4	12.24	4.749	28.9	0
2/21/23 0:30	6.888	217.2	8.54	4.556	28.89	0
2/21/23 0:45	7.558	213.3	7.998	4.381	28.89	0
2/21/23 1:00	5.764	202.2	12.94	4.212	28.89	0
2/21/23 1:15	4.779	192.5	17.67	4.175	28.89	0
2/21/23 1:30	3.502	183	22.35	4.061	28.9	0
2/21/23 1:45	2.402	161.9	21.81	3.947	28.9	0
2/21/23 2:00	4.461	184.3	16.07	3.947	28.9	0
2/21/23 2:15	5.636	200.9	10.81	3.96	28.89	0
2/21/23 2:30	5.249	198.8	12.05	3.884	28.89	0
2/21/23 2:45	4.732	200.2	13.55	3.834	28.89	0
2/21/23 3:00	4.708	192.4	18.31	3.784	28.89	0
2/21/23 3:15	3.649	184.4	15.74	3.75	28.88	0
2/21/23 3:30	3.325	191.7	16.08	3.723	28.88	0
2/21/23 3:45	3.082	174.3	17.48	3.662	28.88	0
2/21/23 4:00	4.899	190.5	9.89	3.707	28.87	0
2/21/23 4:15	5.603	189.2	11.22	3.634	28.86	0
2/21/23 4:30	3.356	193.4	12.05	3.591	28.87	0
2/21/23 4:45	4.06	195.7	14.24	3.619	28.86	0
2/21/23 5:00	4.105	200.8	11.67	3.518	28.86	0
2/21/23 5:15	4.631	186.6	9.44	3.441	28.85	0
2/21/23 5:30	3.753	186.3	12.59	3.372	28.85	0
2/21/23 5:45	3.732	198.3	10.96	3.311	28.84	0
2/21/23 6:00	4.698	198.9	10.74	3.267	28.83	0
2/21/23 6:15	4.591	202.6	10.56	3.188	28.83	0
2/21/23 6:30	4.289	204.7	9.42	3.102	28.83	0
2/21/23 6:45	4.439	207.5	11.32	3.006	28.82	0
2/21/23 7:00	4.45	200	11.13	2.944	28.81	0
2/21/23 7:15	3.872	188.3	11.62	2.917	28.81	0
2/21/23 7:30	4.263	182.3	9	2.938	28.8	0
2/21/23 7:45	4.004	180.9	9.69	2.986	28.8	0
2/21/23 8:00	4.714	178	10.86	2.934	28.79	0
2/21/23 8:15	4.706	195.1	12.38	2.927	28.78	0
2/21/23 8:30	4.172	173.5	9.75	2.799	28.78	0
2/21/23 8:45	4.333	169.5	10.2	2.716	28.78	0
2/21/23 9:00	4.29	167.6	9.09	2.681	28.78	0
2/21/23 9:15	5.031	163.2	10.59	2.663	28.77	0
2/21/23 9:30	4.508	167.2	12.84	2.813	28.77	0
2/21/23 9:45	4.031	147.3	11.18	2.89	28.77	0
2/21/23 10:00	3.138	139.5	9.2	2.923	28.76	0
2/21/23 10:15	4.623	166.5	11	3.033	28.76	0
2/21/23 10:30	3.877	163.5	13.76	3.276	28.75	0
2/21/23 10:45	3.313	151.1	12.73	3.351	28.75	0
2/21/23 11:00	3.252	141.9	8.11	3.381	28.75	0
2/21/23 11:15	2.934	137	10.73	3.44	28.74	0
2/21/23 11:30	3.133	143.4	9.97	3.619	28.74	0
2/21/23 11:45	3.047	164.3	13.4	3.947	28.73	0
2/21/23 12:00	4.147	157.8	13.33	4.4	28.72	0
2/21/23 12:15	4.085	168.1	11.33	4.532	28.72	0
2/21/23 12:30	3.57	170.8	11.92	4.713	28.71	0
2/21/23 12:45	3.228	177.2	17.39	3.899	28.71	0.02
2/21/23 13:00	2.802	168.8	15.43	3.495	28.7	0.02
2/21/23 13:15	3.263	179.6	12.4	3.754	28.7	0.01

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/21/23 13:30	2.578	181.2	17.3	4.159	28.69	0
2/21/23 13:45	3.151	180.4	11.2	4.644	28.69	0
2/21/23 14:00	3.289	163.2	13.21	4.574	28.69	0
2/21/23 14:15	3.304	160.7	13.95	3.915	28.68	0.01
2/21/23 14:30	4.103	152	8.22	3.54	28.68	0
2/21/23 14:45	3.39	170.9	32.3	3.138	28.68	0
2/21/23 15:00	3.314	256.5	13.95	2.804	28.68	0.02
2/21/23 15:15	2.801	231.3	11.8	1.288	28.68	0.03
2/21/23 15:30	2.244	205.2	9.17	0.792	28.68	0.03
2/21/23 15:45	1.9	111.9	68.66	0.916	28.68	0.02
2/21/23 16:00	1.982	53.26	13.43	0.913	28.68	0.01
2/21/23 16:15	1.56	90.2	17.98	1.485	28.68	0
2/21/23 16:30	1.378	113.5	14.3	1.966	28.68	0
2/21/23 16:45	2.549	135.1	9.94	2.057	28.68	0
2/21/23 17:00	2.814	119.6	8.81	1.875	28.68	0
2/21/23 17:15	2.393	111.3	14.19	1.718	28.68	0
2/21/23 17:30	2.668	98	9.22	1.316	28.68	0
2/21/23 17:45	2.466	99.9	10.58	1.221	28.68	0
2/21/23 18:00	2.313	104.6	11.18	1.233	28.67	0
2/21/23 18:15	2.876	113.7	10.38	1.247	28.67	0
2/21/23 18:30	2.331	110.7	11.41	1.292	28.68	0
2/21/23 18:45	2.288	113.2	14.35	1.302	28.68	0.01
2/21/23 19:00	1.879	108.6	11.02	1.283	28.68	0.02
2/21/23 19:15	2.108	97.8	6.888	1.304	28.67	0.01
2/21/23 19:30	2.434	108.6	7.624	1.483	28.67	0
2/21/23 19:45	2.346	114.4	10.15	1.715	28.67	0
2/21/23 20:00	2.122	126.8	8.94	1.704	28.67	0
2/21/23 20:15	2.224	131.5	7.847	1.645	28.67	0
2/21/23 20:30	1.993	128.9	10.52	1.624	28.67	0
2/21/23 20:45	1.885	114.8	7.7	1.475	28.67	0
2/21/23 21:00	2.034	114.6	8.34	1.427	28.67	0
2/21/23 21:15	3.087	158.9	20.38	1.541	28.67	0
2/21/23 21:30	1.402	145.4	12.43	1.355	28.68	0
2/21/23 21:45	0.84	114.8	19.47	1.289	28.68	0
2/21/23 22:00	1.372	82.8	11.14	1.259	28.68	0
2/21/23 22:15	1.729	95.7	11.49	0.986	28.68	0
2/21/23 22:30	2.298	99.7	6.736	0.98	28.68	0
2/21/23 22:45	1.903	108.5	12.3	0.954	28.68	0
2/21/23 23:00	1.671	124.1	7.732	1.022	28.68	0
2/21/23 23:15	1.72	110.7	9.75	1.043	28.68	0
2/21/23 23:30	1.259	115.9	5.106	1.064	28.68	0
2/21/23 23:45	1.076	143.9	18.66	1.151	28.68	0
2/22/23 0:00	1.26	113.5	13.19	1.118	28.68	0
2/22/23 0:15	1.502	123.6	13.6	1.111	28.69	0
2/22/23 0:30	1.204	108.3	9.76	0.939	28.69	0
2/22/23 0:45	1.677	135.4	10.17	0.961	28.69	0
2/22/23 1:00	1.432	118.5	20.12	1.075	28.69	0
2/22/23 1:15	0.832	77.76	10.77	0.934	28.68	0
2/22/23 1:30	0.409	108.8	5.395	1.023	28.68	0
2/22/23 1:45	0.227	105.9	3.286	1.131	28.69	0
2/22/23 2:00	0.01	31.75	1.133	1.102	28.69	0
2/22/23 2:15	0.903	5.35	14.12	0.952	28.69	0
2/22/23 2:30	0.958	13.53	11.94	0.776	28.69	0
2/22/23 2:45	0.853	16.02	6.269	0.732	28.69	0
2/22/23 3:00	1.019	24.27	5.421	0.655	28.69	0
2/22/23 3:15	1.362	34.46	2.84	0.44	28.69	0
2/22/23 3:30	1.176	23.18	9.74	0.572	28.69	0
2/22/23 3:45	1.346	9.03	5.926	0.783	28.69	0
2/22/23 4:00	1.156	18.22	15.05	0.557	28.69	0
2/22/23 4:15	1.278	20.97	18.55	0.548	28.69	0
2/22/23 4:30	1.564	2.173	19.02	0.447	28.69	0
2/22/23 4:45	1.219	9.29	20.22	0.449	28.69	0
2/22/23 5:00	1.24	15.63	5.321	0.426	28.7	0
2/22/23 5:15	1.271	43.23	10.07	0.453	28.7	0
2/22/23 5:30	1.097	30.69	15.43	0.396	28.7	0
2/22/23 5:45	1.364	4.895	9.59	0.432	28.7	0
2/22/23 6:00	1.752	329	13.46	0.376	28.7	0
2/22/23 6:15	0.971	319.9	8.04	0.381	28.71	0
2/22/23 6:30	1.708	0.862	16.43	0.241	28.71	0
2/22/23 6:45	3.769	20.86	10.16	0.074	28.71	0
2/22/23 7:00	4.657	14.34	10.17	-0.243	28.72	0
2/22/23 7:15	3.439	6.771	14.14	-0.403	28.72	0
2/22/23 7:30	4.254	5.834	16.57	-0.584	28.72	0
2/22/23 7:45	4.246	11.74	12.64	-0.754	28.73	0
2/22/23 8:00	3.099	24.88	14.69	-1	28.73	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/22/23 8:15	4.367	11.69	13.01	-1.137	28.73	0
2/22/23 8:30	4.706	8.39	13.61	-1.104	28.73	0
2/22/23 8:45	4.573	7.215	14.8	-1.07	28.73	0
2/22/23 9:00	4.636	10.95	12.61	-0.94	28.74	0
2/22/23 9:15	4.415	13.86	11.83	-0.725	28.74	0
2/22/23 9:30	3.799	9.48	16.02	-0.352	28.74	0.01
2/22/23 9:45	4.096	11.73	14.34	-0.075	28.74	0
2/22/23 10:00	3.9	15.86	14.06	0.288	28.74	0
2/22/23 10:15	3.424	22.72	16.2	0.739	28.75	0
2/22/23 10:30	3.234	22.97	16.9	0.639	28.75	0
2/22/23 10:45	2.935	30.03	15.53	0.433	28.75	0
2/22/23 11:00	3.74	17.07	13.02	0.535	28.75	0
2/22/23 11:15	3.992	15.67	11.67	0.528	28.75	0
2/22/23 11:30	4.697	14.78	16.7	0.896	28.75	0
2/22/23 11:45	4.747	19.91	13.46	1.203	28.75	0
2/22/23 12:00	5.521	16.13	11.73	0.902	28.75	0
2/22/23 12:15	5.458	25.72	14.79	1.314	28.75	0
2/22/23 12:30	5.511	43.62	27.89	1.616	28.75	0
2/22/23 12:45	5.932	81	18.93	2.195	28.75	0
2/22/23 13:00	5.831	67.74	18.26	2.209	28.74	0
2/22/23 13:15	6.257	66.75	19.73	2.295	28.73	0
2/22/23 13:30	6.586	79.62	17.01	2.553	28.73	0
2/22/23 13:45	5.052	81	22	2.741	28.73	0
2/22/23 14:00	5.593	57.79	15.56	2.416	28.73	0
2/22/23 14:15	3.869	81.1	21.54	2.392	28.73	0
2/22/23 14:30	4.563	62.96	16.71	2.639	28.73	0
2/22/23 14:45	3.509	74.83	24.82	2.445	28.73	0
2/22/23 15:00	4.185	55.15	15.95	2.152	28.73	0
2/22/23 15:15	3.298	85.1	27.81	2.247	28.73	0
2/22/23 15:30	3.5	100.2	22.74	2.112	28.73	0
2/22/23 15:45	3.151	97.4	25.14	1.786	28.73	0
2/22/23 16:00	2.456	89.1	32.98	1.678	28.74	0
2/22/23 16:15	2.65	57.37	20.89	1.27	28.74	0
2/22/23 16:30	3.424	106.4	14.39	1.131	28.74	0
2/22/23 16:45	4.004	110.9	14.12	0.786	28.74	0
2/22/23 17:00	3.852	94.3	14.72	0.508	28.74	0
2/22/23 17:15	3.558	103.1	14.97	0.252	28.74	0
2/22/23 17:30	3.526	99.4	17.57	0.039	28.75	0
2/22/23 17:45	3.954	115	16.1	-0.215	28.74	0
2/22/23 18:00	3.927	119.2	13.19	-0.428	28.75	0
2/22/23 18:15	4.515	118.8	11.25	-0.612	28.75	0
2/22/23 18:30	5.242	119.6	10.78	-0.739	28.75	0
2/22/23 18:45	5.009	114.8	12.43	-0.878	28.75	0
2/22/23 19:00	5.106	121.4	15	-1.009	28.75	0
2/22/23 19:15	4.39	119.6	13.92	-1.129	28.75	0
2/22/23 19:30	4.788	120.8	12.33	-1.29	28.75	0
2/22/23 19:45	5.84	116.2	11.94	-1.351	28.76	0
2/22/23 20:00	5.077	113.8	15.46	-1.389	28.76	0
2/22/23 20:15	5.265	113.2	13.55	-1.485	28.76	0
2/22/23 20:30	6.11	114.7	12.16	-1.547	28.76	0
2/22/23 20:45	5.838	111.9	14.09	-1.706	28.76	0
2/22/23 21:00	6.568	120.3	12.87	-1.843	28.76	0
2/22/23 21:15	6.311	108.4	14	-1.947	28.76	0
2/22/23 21:30	6.969	113.6	12.83	-1.989	28.76	0
2/22/23 21:45	7.541	110.5	12.59	-2.068	28.77	0
2/22/23 22:00	7.928	113.4	11.37	-2.161	28.77	0
2/22/23 22:15	7.22	116.5	11.92	-2.299	28.77	0
2/22/23 22:30	7.868	120	11.4	-2.394	28.77	0
2/22/23 22:45	7.922	117.6	11.06	-2.52	28.77	0
2/22/23 23:00	7.928	117.8	13.82	-2.545	28.77	0
2/22/23 23:15	7.926	118.2	12.87	-2.678	28.78	0
2/22/23 23:30	7.482	116.3	13.43	-2.782	28.78	0
2/22/23 23:45	7.047	112.4	13.34	-2.837	28.78	0
2/23/23 0:00	6.93	113.9	13.96	-2.881	28.78	0
2/23/23 0:15	6.578	113.7	16.04	-2.923	28.78	0
2/23/23 0:30	7.543	120.6	12.6	-3.035	28.78	0
2/23/23 0:45	6.965	120.3	12.39	-3.043	28.78	0
2/23/23 1:00	7.17	118.4	12.87	-3.064	28.79	0
2/23/23 1:15	7.048	116.7	14.29	-3.128	28.79	0
2/23/23 1:30	7.447	115.4	14.06	-3.255	28.79	0
2/23/23 1:45	7.299	109	13.51	-3.432	28.79	0
2/23/23 2:00	6.584	110.3	14.22	-3.55	28.79	0
2/23/23 2:15	6.931	103.6	17.94	-3.568	28.79	0
2/23/23 2:30	6.311	109.5	15.53	-3.635	28.79	0
2/23/23 2:45	6.767	114.2	15.9	-3.863	28.79	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/23/23 3:00	5.064	113.8	15.27	-3.918	28.8	0
2/23/23 3:15	6.533	109.7	16.11	-3.869	28.8	0
2/23/23 3:30	6.129	116.9	14.34	-3.923	28.8	0
2/23/23 3:45	6.733	112.7	15.53	-4.056	28.8	0
2/23/23 4:00	6.646	109.5	16.69	-4.061	28.8	0
2/23/23 4:15	6.731	109.3	15.83	-4.054	28.8	0
2/23/23 4:30	7.276	111.4	14.11	-4.104	28.8	0
2/23/23 4:45	6.679	108.9	15.43	-4.113	28.8	0
2/23/23 5:00	7.604	118.6	12.85	-4.205	28.8	0
2/23/23 5:15	7.279	109.7	13.36	-4.226	28.81	0
2/23/23 5:30	7.322	110.5	12.21	-4.233	28.81	0
2/23/23 5:45	6.839	107.8	13.58	-4.111	28.82	0
2/23/23 6:00	5.917	108.1	13.02	-4.148	28.82	0
2/23/23 6:15	6.806	104.7	15.56	-4.001	28.82	0
2/23/23 6:30	7.303	108.3	13.98	-3.963	28.82	0
2/23/23 6:45	6.687	108.6	16.6	-4.103	28.82	0
2/23/23 7:00	5.657	111.1	15.54	-4.253	28.83	0
2/23/23 7:15	6.442	111.9	15.71	-4.448	28.83	0
2/23/23 7:30	6.794	111.5	15.01	-4.373	28.84	0
2/23/23 7:45	6.82	117.2	12.36	-4.431	28.85	0
2/23/23 8:00	7.07	116.6	13.32	-4.494	28.85	0
2/23/23 8:15	7.936	119.4	11.45	-4.555	28.86	0
2/23/23 8:30	7.499	121.1	10	-4.485	28.87	0
2/23/23 8:45	7.307	117.7	11.24	-4.388	28.87	0
2/23/23 9:00	7.407	120.9	11.48	-4.41	28.87	0
2/23/23 9:15	7.979	113	10.9	-4.337	28.88	0
2/23/23 9:30	7.609	105.7	14.05	-4.326	28.89	0
2/23/23 9:45	6.529	111.1	13.37	-4.135	28.89	0
2/23/23 10:00	4.827	110.8	17.77	-3.685	28.9	0
2/23/23 10:15	6.024	112.9	15.93	-2.899	28.9	0
2/23/23 10:30	5.677	108.8	17.55	-3.103	28.91	0
2/23/23 10:45	5.053	116.9	17.55	-3.139	28.91	0
2/23/23 11:00	5.956	104.2	19.12	-2.59	28.92	0
2/23/23 11:15	5.618	108.1	17.53	-2.559	28.93	0
2/23/23 11:30	4.926	103.7	27.01	-2.272	28.93	0
2/23/23 11:45	5.805	116.2	17.78	-1.865	28.93	0
2/23/23 12:00	5.115	108.6	19.85	-1.292	28.94	0
2/23/23 12:15	5.884	110.4	19.12	-1.442	28.94	0
2/23/23 12:30	5.498	92.7	22.3	-1.5	28.94	0
2/23/23 12:45	5.723	91.6	20.31	-1.488	28.94	0
2/23/23 13:00	4.295	94.2	22.84	-1.281	28.94	0
2/23/23 13:15	5.313	104.7	26.4	-1.238	28.94	0
2/23/23 13:30	6.7	107.6	14.3	-1.474	28.95	0
2/23/23 13:45	6.622	110.7	15.83	-1.229	28.95	0
2/23/23 14:00	5.909	103	25.26	-1.068	28.95	0
2/23/23 14:15	6.253	106.7	17.52	-1.068	28.96	0
2/23/23 14:30	5.844	92.9	20.49	-1.043	28.96	0
2/23/23 14:45	4.981	84.4	23.04	-1.085	28.96	0
2/23/23 15:00	6.188	64.92	19.76	-1.291	28.97	0
2/23/23 15:15	5.948	70.59	20.82	-1.364	28.97	0
2/23/23 15:30	5.615	87.8	20.96	-1.253	28.98	0
2/23/23 15:45	6.202	70.19	17.72	-1.394	28.99	0
2/23/23 16:00	5.347	68.25	24.12	-1.441	28.99	0
2/23/23 16:15	5.999	89.4	18.37	-1.558	28.99	0
2/23/23 16:30	5.574	88.9	17.52	-1.758	29	0
2/23/23 16:45	4.495	87.6	17.35	-1.923	29	0
2/23/23 17:00	4.358	85.8	20.59	-1.97	29.01	0
2/23/23 17:15	4.096	75.36	24.17	-2.187	29.01	0
2/23/23 17:30	4.125	79.22	19.3	-2.465	29.02	0
2/23/23 17:45	5.68	91.3	15.17	-2.721	29.03	0
2/23/23 18:00	5.566	87.8	15.77	-2.961	29.04	0
2/23/23 18:15	4.244	78.15	16.79	-3.213	29.05	0
2/23/23 18:30	3.067	84.7	17.83	-3.404	29.06	0
2/23/23 18:45	3.646	77.97	18.29	-3.594	29.07	0
2/23/23 19:00	5.395	89.9	14.51	-3.583	29.07	0
2/23/23 19:15	4.921	89	15.35	-3.759	29.08	0
2/23/23 19:30	4.875	90.1	15.11	-3.822	29.08	0
2/23/23 19:45	4.351	92.9	15.73	-3.957	29.09	0
2/23/23 20:00	5.181	106.8	13.35	-3.953	29.09	0
2/23/23 20:15	6.095	117.9	10.45	-4.066	29.09	0
2/23/23 20:30	5.992	115.4	10.05	-4.035	29.1	0
2/23/23 20:45	5.904	118.8	8.68	-4.103	29.1	0
2/23/23 21:00	4.098	109.5	11.96	-4.155	29.11	0
2/23/23 21:15	3.865	112.8	11.8	-4.279	29.11	0
2/23/23 21:30	4.821	103.9	15.46	-4.074	29.12	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/23/23 21:45	5.329	101.9	15.24	-3.97	29.12	0
2/23/23 22:00	3.851	96.5	18.61	-4.047	29.13	0
2/23/23 22:15	4.723	87.7	16.72	-3.927	29.14	0
2/23/23 22:30	4.296	95	11.79	-3.915	29.15	0
2/23/23 22:45	3.259	91.3	18.34	-4.184	29.15	0
2/23/23 23:00	4.174	94.4	13.3	-4.158	29.16	0
2/23/23 23:15	3.302	85.3	15.82	-4.185	29.16	0
2/23/23 23:30	3.114	80.9	16.23	-4.086	29.17	0
2/23/23 23:45	3.697	86.7	16.45	-4.178	29.18	0
2/24/23 0:00	4.604	94.5	11.26	-4.208	29.18	0
2/24/23 0:15	4.726	104.9	13.4	-4.247	29.18	0
2/24/23 0:30	4.329	104.3	9.87	-4.423	29.18	0
2/24/23 0:45	3.627	97	14.71	-4.417	29.19	0
2/24/23 1:00	3.31	92.2	11.8	-4.364	29.19	0
2/24/23 1:15	2.436	87.9	13.51	-4.391	29.19	0
2/24/23 1:30	3.412	100	12.8	-4.265	29.2	0
2/24/23 1:45	3.315	79.89	18.66	-4.435	29.2	0
2/24/23 2:00	3.893	81.7	13.84	-4.159	29.21	0
2/24/23 2:15	3.774	91.4	10.96	-4.128	29.21	0
2/24/23 2:30	3.644	89.6	19.27	-4.189	29.22	0
2/24/23 2:45	2.137	50.93	11.6	-5.337	29.22	0
2/24/23 3:00	2.084	48.58	12.15	-5.729	29.21	0
2/24/23 3:15	3.098	75.08	13.33	-4.466	29.21	0
2/24/23 3:30	2.053	60.4	24.54	-4.473	29.21	0
2/24/23 3:45	1.783	49.42	29.94	-5.042	29.2	0
2/24/23 4:00	1.544	18.04	33.46	-5.364	29.2	0
2/24/23 4:15	1.822	31.68	14.54	-5.407	29.2	0
2/24/23 4:30	2.441	50.01	25.96	-5.468	29.2	0
2/24/23 4:45	2.038	52.97	22.79	-5.077	29.2	0
2/24/23 5:00	2.151	70.29	13.04	-4.871	29.2	0
2/24/23 5:15	2.129	48.09	25.51	-5.519	29.21	0
2/24/23 5:30	2.063	20.02	9.53	-6.273	29.22	0
2/24/23 5:45	1.933	21.26	22.5	-6.242	29.22	0
2/24/23 6:00	2.58	18.59	15.63	-6.383	29.23	0
2/24/23 6:15	2.609	26.46	11.04	-6.566	29.23	0
2/24/23 6:30	2.623	14.61	12.72	-6.64	29.24	0
2/24/23 6:45	2.423	13.8	9.95	-6.46	29.25	0
2/24/23 7:00	2.24	18.32	8.72	-6.512	29.26	0
2/24/23 7:15	2.203	28.59	10.79	-6.401	29.26	0
2/24/23 7:30	1.916	35.13	11.34	-6.133	29.26	0
2/24/23 7:45	1.299	17.06	21.32	-5.783	29.27	0
2/24/23 8:00	1.567	30.36	13.39	-5.576	29.27	0
2/24/23 8:15	1.816	22.12	10.88	-5.389	29.28	0
2/24/23 8:30	1.599	37.15	14.67	-5.118	29.29	0
2/24/23 8:45	1.66	42.55	12.62	-4.775	29.29	0
2/24/23 9:00	1.482	57.44	16.32	-3.974	29.29	0
2/24/23 9:15	1.278	59.93	28.7	-3.379	29.29	0
2/24/23 9:30	1.492	65.86	26.53	-2.892	29.29	0
2/24/23 9:45	1.897	97	21.04	-2.419	29.28	0
2/24/23 10:00	1.413	58.38	20.9	-2.192	29.28	0
2/24/23 10:15	0.998	83.4	48.77	-1.346	29.28	0
2/24/23 10:30	1.218	94.7	25.8	-0.852	29.28	0
2/24/23 10:45	0.659	34.26	45.71	-0.875	29.28	0
2/24/23 11:00	1.144	322.3	78.43	-0.348	29.28	0
2/24/23 11:15	1.122	311.9	42.91	-0.423	29.28	0
2/24/23 11:30	1.366	305.9	31.51	0.037	29.27	0
2/24/23 11:45	0.952	300.1	53.19	0.687	29.27	0
2/24/23 12:00	1.515	9.96	16.9	1.071	29.27	0
2/24/23 12:15	1.218	317.3	46.89	1.674	29.27	0
2/24/23 12:30	1.463	270.1	33.06	1.854	29.27	0
2/24/23 12:45	1.59	280.2	40.55	2.21	29.26	0
2/24/23 13:00	2.036	281.8	32.54	2.233	29.26	0
2/24/23 13:15	2.499	326.9	46.87	2.449	29.25	0
2/24/23 13:30	2.555	14.23	29.44	2.736	29.25	0
2/24/23 13:45	3.328	28.57	15.57	2.594	29.24	0
2/24/23 14:00	3.763	22.16	17.29	2.59	29.24	0
2/24/23 14:15	4.161	12.39	13.99	2.663	29.24	0
2/24/23 14:30	4.082	12.79	14.02	2.646	29.24	0
2/24/23 14:45	3.893	11.57	14.86	2.903	29.24	0
2/24/23 15:00	4.669	15.36	12.23	2.777	29.24	0
2/24/23 15:15	4.03	6.028	16.87	2.732	29.24	0
2/24/23 15:30	4.332	4.033	17.41	2.799	29.24	0
2/24/23 15:45	4.05	2.591	16.18	2.822	29.24	0
2/24/23 16:00	3.647	356.8	18.15	2.734	29.24	0
2/24/23 16:15	3.978	354.2	21.61	2.633	29.24	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/24/23 16:30	3.661	345.5	12.83	2.474	29.23	0
2/24/23 16:45	4.074	352.6	17.1	2.38	29.23	0
2/24/23 17:00	4.013	9.55	13.25	2.22	29.22	0
2/24/23 17:15	3.551	358.5	18.08	1.969	29.22	0
2/24/23 17:30	2.463	354.2	18.58	1.857	29.22	0
2/24/23 17:45	1.909	313.5	17.6	1.383	29.22	0
2/24/23 18:00	0.854	1.561	35.24	0.92	29.22	0
2/24/23 18:15	1.138	298.1	23.76	0.788	29.23	0
2/24/23 18:30	1.743	313.6	23.68	0.591	29.23	0
2/24/23 18:45	2.996	357.8	19.42	0.184	29.23	0
2/24/23 19:00	5.269	9.02	15	0.05	29.24	0
2/24/23 19:15	5.414	7.802	13.02	-0.286	29.24	0
2/24/23 19:30	4.99	1.274	17.06	-0.61	29.24	0
2/24/23 19:45	5.255	1.38	17.2	-0.877	29.24	0
2/24/23 20:00	5.351	8.14	12.46	-1.029	29.25	0
2/24/23 20:15	5.406	8.17	13.99	-1.207	29.25	0
2/24/23 20:30	4.828	14.92	14.66	-1.414	29.25	0
2/24/23 20:45	4.904	13.06	12.15	-1.526	29.25	0
2/24/23 21:00	4.425	15.35	12.49	-1.663	29.26	0
2/24/23 21:15	4.342	11.49	12.94	-1.908	29.26	0
2/24/23 21:30	4.957	11.89	12.92	-1.875	29.26	0
2/24/23 21:45	4.643	11.42	10.73	-1.783	29.26	0
2/24/23 22:00	3.663	24.66	11.03	-1.851	29.27	0
2/24/23 22:15	3.881	23.66	10.05	-2.223	29.27	0
2/24/23 22:30	3.656	27.92	8.66	-2.466	29.27	0
2/24/23 22:45	3.506	26.47	9.55	-2.486	29.27	0
2/24/23 23:00	2.694	38.36	9.72	-2.726	29.27	0
2/24/23 23:15	2.375	35.42	10.24	-2.809	29.26	0
2/24/23 23:30	1.624	34.06	13.71	-2.656	29.26	0
2/24/23 23:45	0.995	15.06	17.12	-2.822	29.25	0
2/25/23 0:00	0.933	11.13	14.11	-2.764	29.25	0
2/25/23 0:15	1.17	38.39	8.16	-3.013	29.24	0
2/25/23 0:30	0.893	25.14	18.75	-3.155	29.24	0
2/25/23 0:45	0.87	55.86	36.39	-2.871	29.24	0
2/25/23 1:00	0.469	44.25	39.33	-2.942	29.24	0
2/25/23 1:15	0.725	322	10.22	-2.953	29.25	0
2/25/23 1:30	0.834	328.1	14.71	-2.948	29.25	0
2/25/23 1:45	0.764	13.66	14.87	-3.408	29.25	0
2/25/23 2:00	0.694	40.33	25.89	-3.801	29.26	0
2/25/23 2:15	1.329	75.97	8.19	-3.799	29.25	0
2/25/23 2:30	1.112	95.8	5.266	-3.576	29.25	0
2/25/23 2:45	1.426	117.2	7.534	-3.039	29.25	0
2/25/23 3:00	2.159	114.8	7.368	-2.929	29.24	0
2/25/23 3:15	1.885	102.6	7.653	-3.283	29.24	0
2/25/23 3:30	1.765	105.1	7.017	-3.405	29.24	0
2/25/23 3:45	1.852	103	5.6	-3.504	29.24	0
2/25/23 4:00	1.445	85.8	7.259	-3.543	29.23	0
2/25/23 4:15	1.207	92.6	13.71	-3.453	29.23	0
2/25/23 4:30	1.389	130.9	6.429	-3.275	29.22	0
2/25/23 4:45	0.752	88	35.73	-3.611	29.22	0
2/25/23 5:00	0.395	69.23	10.5	-3.931	29.22	0
2/25/23 5:15	1.093	81.4	15.45	-3.744	29.22	0
2/25/23 5:30	1.322	82.8	7.653	-4.106	29.21	0
2/25/23 5:45	1.138	110.2	24.67	-4	29.2	0
2/25/23 6:00	1.747	137.8	6.341	-3.798	29.2	0
2/25/23 6:15	1.504	141.5	5.034	-3.772	29.2	0
2/25/23 6:30	1.582	156.9	8.89	-4.168	29.2	0
2/25/23 6:45	1.913	163.5	6.68	-4.392	29.2	0
2/25/23 7:00	1.88	143.6	12.24	-4.102	29.2	0
2/25/23 7:15	1.406	121.6	7.168	-3.844	29.2	0
2/25/23 7:30	1.379	134.1	13.18	-3.299	29.2	0
2/25/23 7:45	1.34	151.5	20.9	-2.783	29.2	0
2/25/23 8:00	1.084	117.2	9.76	-2.931	29.19	0
2/25/23 8:15	1.65	136.5	13.41	-2.325	29.18	0
2/25/23 8:30	1.683	142.5	8.75	-2.567	29.18	0
2/25/23 8:45	1.52	151.1	15.05	-1.758	29.18	0
2/25/23 9:00	1.391	65.23	39.3	-1.283	29.18	0
2/25/23 9:15	1.113	67.35	27.69	-0.908	29.17	0
2/25/23 9:30	1.628	92.5	13.52	-1.107	29.17	0
2/25/23 9:45	1.489	104.2	11.74	-0.65	29.16	0
2/25/23 10:00	1.373	132.8	21.86	-0.071	29.15	0
2/25/23 10:15	1.283	195.8	25.95	0.399	29.14	0
2/25/23 10:30	1.332	214.8	25.19	0.759	29.13	0
2/25/23 10:45	1.551	206.8	19.99	1.009	29.12	0
2/25/23 11:00	1.164	217.1	25.54	1.194	29.11	0

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/25/23 11:15	0.926	246.2	43.03	1.681	29.1	0
2/25/23 11:30	0.923	251.4	22.96	2.236	29.09	0
2/25/23 11:45	1.252	220.2	30.57	2.712	29.08	0
2/25/23 12:00	1.471	248.6	33.07	3.427	29.08	0
2/25/23 12:15	0.905	229.9	38.86	3.948	29.07	0
2/25/23 12:30	1.103	245.8	31.05	3.982	29.06	0
2/25/23 12:45	0.88	286.2	48.02	4.918	29.05	0
2/25/23 13:00	1.313	223.6	43.98	5.49	29.04	0
2/25/23 13:15	1.795	228.6	34.26	5.605	29.03	0
2/25/23 13:30	1.828	207.6	28.6	5.754	29.02	0
2/25/23 13:45	1.55	186.1	26.85	5.943	29.01	0
2/25/23 14:00	1.807	243.1	32.22	5.969	29	0
2/25/23 14:15	2.056	209.1	28.66	6.114	28.99	0
2/25/23 14:30	1.978	202.1	13.82	6.131	28.97	0
2/25/23 14:45	2.338	196.3	17.96	5.983	28.96	0
2/25/23 15:00	1.808	197.3	19.13	5.904	28.95	0
2/25/23 15:15	1.919	214.5	11.22	5.917	28.94	0
2/25/23 15:30	2.16	200.3	13.94	6.036	28.93	0
2/25/23 15:45	1.951	204.4	13.66	6.113	28.92	0
2/25/23 16:00	2.349	224.7	10.52	6.065	28.91	0
2/25/23 16:15	2.694	240.1	6.849	5.904	28.9	0
2/25/23 16:30	2.214	243.5	7.439	5.777	28.89	0
2/25/23 16:45	1.935	252.4	9.03	5.555	28.88	0
2/25/23 17:00	1.36	255.3	6.669	5.356	28.88	0
2/25/23 17:15	1.043	242.3	9.46	5.286	28.87	0
2/25/23 17:30	1.283	222.1	8.59	5.167	28.86	0
2/25/23 17:45	1.263	220.1	4.257	4.996	28.86	0
2/25/23 18:00	0.854	187.6	30.3	4.865	28.85	0
2/25/23 18:15	1.304	145.8	10.46	4.665	28.84	0
2/25/23 18:30	1.739	140.7	9.11	4.43	28.84	0
2/25/23 18:45	2.107	142.4	9.68	4.603	28.83	0
2/25/23 19:00	2.619	131.1	11.6	4.447	28.83	0
2/25/23 19:15	2.728	140.7	9.5	4.453	28.82	0
2/25/23 19:30	2.626	136.6	11.8	4.638	28.81	0
2/25/23 19:45	2.237	160.5	24.07	4.426	28.81	0
2/25/23 20:00	2.259	197.5	21.83	3.949	28.8	0
2/25/23 20:15	2.378	192.6	12.29	3.82	28.79	0
2/25/23 20:30	2.322	186	14.2	3.68	28.79	0
2/25/23 20:45	2.436	192.5	11.67	3.699	28.78	0
2/25/23 21:00	2.285	198.4	11.25	3.548	28.78	0
2/25/23 21:15	2.597	191	8.33	3.472	28.78	0
2/25/23 21:30	2.304	184.2	6.841	3.553	28.78	0
2/25/23 21:45	2.127	183.2	6.604	3.471	28.78	0
2/25/23 22:00	2.382	183.9	10.65	3.39	28.77	0
2/25/23 22:15	2.272	167.5	18.83	3.286	28.77	0
2/25/23 22:30	2.607	139.9	8.43	3.118	28.76	0
2/25/23 22:45	2.716	163.2	13.47	3.137	28.75	0
2/25/23 23:00	2.612	176.9	15.4	3.054	28.75	0
2/25/23 23:15	2.315	169.8	14.91	2.881	28.75	0
2/25/23 23:30	2.312	170.5	10.73	2.992	28.74	0
2/25/23 23:45	4.231	199.2	21.38	2.901	28.74	0
2/26/23 0:00	5.032	211.4	9.73	2.38	28.74	0
2/26/23 0:15	5.453	218	8.24	1.532	28.74	0
2/26/23 0:30	4.29	201.2	18.04	0.452	28.73	0
2/26/23 0:45	3.362	157.3	11.71	-0.003	28.73	0
2/26/23 1:00	2.599	122.5	10.01	-0.22	28.72	0
2/26/23 1:15	2.917	109.3	8.3	-0.307	28.7	0
2/26/23 1:30	3.516	112.8	8.09	-0.319	28.69	0
2/26/23 1:45	4.093	114.7	10.71	-0.276	28.67	0
2/26/23 2:00	4.912	120.1	9.78	-0.287	28.66	0
2/26/23 2:15	4.966	119.4	10.15	-0.242	28.64	0
2/26/23 2:30	5.233	117.7	8.83	-0.149	28.63	0
2/26/23 2:45	5.498	119.1	9.92	-0.054	28.62	0
2/26/23 3:00	4.812	122.5	9.3	0.038	28.61	0
2/26/23 3:15	5.073	122.6	8.18	0.117	28.6	0
2/26/23 3:30	4.859	123.3	7.598	0.198	28.6	0
2/26/23 3:45	4.334	118.6	8.92	0.334	28.59	0
2/26/23 4:00	3.732	121.4	8.82	0.572	28.59	0
2/26/23 4:15	2.95	141.2	10.3	0.719	28.59	0
2/26/23 4:30	2.98	165.6	19.78	1.011	28.6	0
2/26/23 4:45	3.938	199.5	10.94	1.116	28.61	0
2/26/23 5:00	4.055	201.7	9.18	0.958	28.61	0
2/26/23 5:15	3.348	187.3	9.64	0.888	28.62	0
2/26/23 5:30	3.216	180.8	13.1	1.057	28.62	0
2/26/23 5:45	2.53	173.9	13.53	1.2	28.63	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/26/23 6:00	2.681	177.2	13.89	1.421	28.64	0
2/26/23 6:15	2.887	190	16.09	1.539	28.64	0
2/26/23 6:30	2.526	173.6	20.08	1.651	28.65	0.01
2/26/23 6:45	4.261	185.3	14.85	1.624	28.65	0
2/26/23 7:00	5.4	188.4	11.27	1.626	28.65	0.01
2/26/23 7:15	4.47	192	13.4	1.498	28.66	0
2/26/23 7:30	3.758	186.9	11.92	1.371	28.66	0
2/26/23 7:45	4.165	188.2	9.88	1.256	28.67	0
2/26/23 8:00	4.585	188.5	9.15	1.202	28.68	0
2/26/23 8:15	3.254	180.4	10.42	1.279	28.68	0.01
2/26/23 8:30	3.337	183.1	14.63	1.238	28.7	0.01
2/26/23 8:45	3.614	163.9	13.1	1.237	28.7	0.01
2/26/23 9:00	4.044	154.9	11.84	1.18	28.71	0.01
2/26/23 9:15	3.699	144	10.42	1.201	28.72	0.01
2/26/23 9:30	5.176	159.6	9.33	1.37	28.72	0.01
2/26/23 9:45	4.282	157.9	8.93	1.466	28.73	0.01
2/26/23 10:00	3.63	156.2	11.41	1.532	28.74	0.01
2/26/23 10:15	3.872	147.6	8.68	1.677	28.75	0.01
2/26/23 10:30	3.443	154.9	11.86	1.95	28.76	0.01
2/26/23 10:45	4.207	144.1	7.721	2.178	28.76	0.02
2/26/23 11:00	4.724	152.7	11.99	2.415	28.77	0.01
2/26/23 11:15	4.493	153.7	9.54	2.791	28.77	0.02
2/26/23 11:30	3.798	173	18.23	3.651	28.78	0.03
2/26/23 11:45	3.553	176.1	17.58	3.817	28.78	0.02
2/26/23 12:00	5.834	198.2	13.05	4.314	28.78	0.03
2/26/23 12:15	7.433	227.1	15.09	4.684	28.78	0.02
2/26/23 12:30	7.707	220.3	8.41	4.811	28.78	0.01
2/26/23 12:45	6.455	227.8	11.28	5.299	28.79	0.01
2/26/23 13:00	7.561	225.8	10.99	5.238	28.79	0.01
2/26/23 13:15	8.74	222.8	9.57	5.207	28.78	0
2/26/23 13:30	8.67	233.9	9.56	5.502	28.79	0
2/26/23 13:45	9.08	225.3	8.23	5.475	28.79	0
2/26/23 14:00	10.01	228.7	10.8	5.106	28.79	0
2/26/23 14:15	9.2	223.8	9.53	4.827	28.8	0
2/26/23 14:30	9.07	233.9	10.81	4.317	28.81	0
2/26/23 14:45	7.715	229.3	12.91	3.769	28.82	0
2/26/23 15:00	6.914	215	11.47	4.072	28.83	0
2/26/23 15:15	8.32	225	8.87	3.552	28.84	0
2/26/23 15:30	8.47	219.1	10.43	3.039	28.84	0
2/26/23 15:45	6.284	208.7	11.9	2.788	28.85	0
2/26/23 16:00	4.032	202	14.13	2.759	28.86	0
2/26/23 16:15	5.179	209.6	11.91	2.892	28.86	0
2/26/23 16:30	6.714	207	10.17	3.262	28.85	0
2/26/23 16:45	6.051	205.4	12.49	3.667	28.86	0
2/26/23 17:00	7.312	207.1	7.818	3.579	28.86	0
2/26/23 17:15	5.843	211.9	10.46	3.238	28.86	0
2/26/23 17:30	4.979	198.5	13.66	3.004	28.87	0
2/26/23 17:45	5.256	156.2	16.92	2.654	28.88	0
2/26/23 18:00	5.056	145.9	10.87	1.975	28.88	0
2/26/23 18:15	5.247	140.5	10.28	1.337	28.88	0
2/26/23 18:30	2.514	197.7	34.16	0.439	28.89	0
2/26/23 18:45	2.083	199.5	12.49	-0.019	28.9	0
2/26/23 19:00	1.385	153.7	17.16	-0.02	28.9	0
2/26/23 19:15	1.566	152	17.62	-0.031	28.9	0
2/26/23 19:30	1.5	135	18.44	-0.064	28.9	0
2/26/23 19:45	2.081	127	6.635	-0.064	28.9	0
2/26/23 20:00	3.024	148.1	10.02	0.05	28.9	0
2/26/23 20:15	3.471	150.6	7.643	0.104	28.9	0
2/26/23 20:30	3.516	145.6	6.175	0.062	28.9	0
2/26/23 20:45	3.015	141.7	9.73	0.009	28.9	0
2/26/23 21:00	2.537	142.8	11.08	0.103	28.91	0
2/26/23 21:15	2.147	128.6	7.687	0.065	28.91	0
2/26/23 21:30	2.034	122.8	8.23	0.043	28.91	0
2/26/23 21:45	1.863	119.8	7.02	-0.035	28.91	0
2/26/23 22:00	1.996	128.8	8.5	-0.021	28.91	0
2/26/23 22:15	2.371	142.5	7.9	0.048	28.91	0
2/26/23 22:30	2.814	156.1	16.54	0.246	28.92	0
2/26/23 22:45	1.211	122.6	15.3	0.171	28.91	0
2/26/23 23:00	1.093	103.5	7.301	0.017	28.91	0
2/26/23 23:15	1.706	121.7	9.09	-0.121	28.91	0
2/26/23 23:30	1.813	122.7	9	-0.076	28.91	0
2/26/23 23:45	1.759	112.5	8.98	0.094	28.91	0
2/27/23 0:00	1.934	120.8	6.059	0.358	28.91	0
2/27/23 0:15	1.93	120.7	8.72	0.483	28.91	0
2/27/23 0:30	2.024	129.9	8.18	0.73	28.91	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/27/23 0:45	0.817	65.96	24.01	0.512	28.9	0
2/27/23 1:00	0.835	67.65	10.4	0.154	28.91	0
2/27/23 1:15	1.184	74.53	8.34	0.294	28.9	0
2/27/23 1:30	1.132	87.3	9.36	0.405	28.9	0
2/27/23 1:45	1.079	143.2	20.04	0.519	28.9	0
2/27/23 2:00	1.214	94.3	15.1	0.559	28.89	0
2/27/23 2:15	1.548	80.6	7.047	-0.065	28.89	0
2/27/23 2:30	1.717	66.28	16.67	-0.082	28.88	0
2/27/23 2:45	1.802	47.42	13.49	-0.19	28.87	0
2/27/23 3:00	1.68	45.16	13.01	-0.077	28.87	0
2/27/23 3:15	1.593	26.47	7.44	-0.285	28.86	0
2/27/23 3:30	1.551	33.42	6.537	-0.23	28.86	0
2/27/23 3:45	1.502	33.41	6.733	-0.149	28.85	0
2/27/23 4:00	1.364	48.42	7.955	-0.135	28.84	0
2/27/23 4:15	1.5	49.65	7.948	0.112	28.84	0
2/27/23 4:30	2.084	21.04	4.675	-0.151	28.82	0
2/27/23 4:45	2.506	27.57	5.696	-0.476	28.81	0
2/27/23 5:00	1.985	41.84	7.47	-0.677	28.81	0
2/27/23 5:15	1.801	35.56	11.19	-0.896	28.8	0
2/27/23 5:30	1.101	54.6	41.34	-1.131	28.79	0
2/27/23 5:45	2.282	138.5	11.62	-0.46	28.78	0
2/27/23 6:00	2.72	112	28.23	0.237	28.78	0
2/27/23 6:15	2.986	90.9	19.5	0.134	28.77	0
2/27/23 6:30	3.035	94.5	17.85	-0.013	28.76	0
2/27/23 6:45	3.214	70.38	13.95	-0.151	28.75	0
2/27/23 7:00	2.531	74.16	10.11	-0.155	28.74	0
2/27/23 7:15	2.641	77.12	12.3	0.274	28.73	0
2/27/23 7:30	3.076	92.5	24.18	0.748	28.72	0
2/27/23 7:45	3.407	97	15.68	1.156	28.71	0
2/27/23 8:00	3.465	90.4	14.21	1.322	28.7	0
2/27/23 8:15	4.021	118.8	14.13	1.905	28.7	0
2/27/23 8:30	4.777	112.4	10.92	2.378	28.69	0
2/27/23 8:45	4.335	114.5	10.66	2.518	28.69	0
2/27/23 9:00	4.556	124.9	12.63	2.866	28.69	0
2/27/23 9:15	3.582	128	14.57	2.899	28.7	0
2/27/23 9:30	4.716	131.7	12.92	2.814	28.71	0
2/27/23 9:45	4.831	110.2	16.58	2.655	28.7	0
2/27/23 10:00	4.918	98.6	12.03	2.306	28.69	0
2/27/23 10:15	4.909	111.4	10.47	2.631	28.68	0
2/27/23 10:30	5.525	125.6	12.43	3.05	28.67	0
2/27/23 10:45	6.082	126.1	10.23	3.361	28.67	0.01
2/27/23 11:00	5.891	126.6	10.6	3.596	28.66	0.01
2/27/23 11:15	6.67	121.8	12	3.74	28.66	0.01
2/27/23 11:30	6.61	127.9	10.49	3.807	28.66	0
2/27/23 11:45	5.891	129.6	10.76	3.799	28.66	0
2/27/23 12:00	5.942	123	11.4	3.867	28.66	0
2/27/23 12:15	5.442	119.5	10.98	3.854	28.66	0
2/27/23 12:30	5.698	122.4	13.3	3.962	28.65	0.01
2/27/23 12:45	4.322	122.5	13.37	4.03	28.65	0.01
2/27/23 13:00	5.326	124.1	14.2	4.108	28.65	0
2/27/23 13:15	4.259	127.6	13.66	4.099	28.64	0.01
2/27/23 13:30	3.679	132	14.84	4.058	28.64	0.01
2/27/23 13:45	4.533	122.7	12.67	4.124	28.64	0.01
2/27/23 14:00	4.488	131.9	12.75	4.336	28.63	0
2/27/23 14:15	4.208	121.9	14.44	4.373	28.63	0.01
2/27/23 14:30	4.326	144.2	10.48	4.331	28.63	0
2/27/23 14:45	3.643	133.2	15.09	4.393	28.62	0
2/27/23 15:00	3.178	109.9	14.28	4.718	28.62	0.01
2/27/23 15:15	3.623	106.3	16.72	4.949	28.61	0
2/27/23 15:30	3.877	107.6	19	5.372	28.61	0
2/27/23 15:45	4.154	105.8	13.59	5.022	28.6	0
2/27/23 16:00	4.033	121.1	15.85	5.224	28.6	0
2/27/23 16:15	3.861	113.4	14.42	5.13	28.59	0
2/27/23 16:30	4.072	117.2	11.87	5.058	28.59	0
2/27/23 16:45	5.274	124.9	12.02	4.845	28.59	0
2/27/23 17:00	4.72	126.7	9.38	4.703	28.59	0
2/27/23 17:15	5.002	117.8	12.43	4.374	28.59	0
2/27/23 17:30	4.396	118.3	12.43	3.56	28.59	0
2/27/23 17:45	3.537	109.7	12.34	3.473	28.58	0
2/27/23 18:00	3.33	115.8	13.26	3.51	28.58	0
2/27/23 18:15	4.949	117.1	11.57	3.662	28.57	0
2/27/23 18:30	5.245	118.5	11.06	3.535	28.57	0
2/27/23 18:45	4.789	120.9	11.32	3.351	28.57	0
2/27/23 19:00	5.443	118	10.35	3.207	28.57	0
2/27/23 19:15	5.831	118.8	10.5	3.114	28.56	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/27/23 19:30	5.683	123.6	9.49	3.066	28.56	0
2/27/23 19:45	4.83	120.8	10.6	2.97	28.56	0
2/27/23 20:00	5.554	120.7	9.35	2.875	28.55	0
2/27/23 20:15	5.108	121.6	9.99	2.85	28.55	0
2/27/23 20:30	5.027	119.8	11.59	2.765	28.55	0
2/27/23 20:45	4.453	114.3	10.6	2.731	28.55	0
2/27/23 21:00	4.365	115.8	12.82	2.76	28.55	0
2/27/23 21:15	4.565	119.8	11.51	2.882	28.55	0
2/27/23 21:30	4.008	121.8	11.21	2.775	28.55	0
2/27/23 21:45	5.327	120	10.8	2.77	28.55	0
2/27/23 22:00	5.781	121.7	9.8	2.972	28.55	0
2/27/23 22:15	5.003	119.1	10.25	2.828	28.55	0
2/27/23 22:30	4.227	124.1	10.88	2.816	28.55	0
2/27/23 22:45	3.454	142.3	13.71	2.648	28.56	0
2/27/23 23:00	3.427	152.2	11.08	2.513	28.56	0
2/27/23 23:15	3.958	155.5	9.5	2.392	28.56	0
2/27/23 23:30	2.816	156.3	9.15	2.246	28.56	0
2/27/23 23:45	3.82	163.5	11.64	2.043	28.56	0
2/28/23 0:00	2.368	177.2	15.14	1.735	28.56	0
2/28/23 0:15	1.234	86.7	50.64	1.275	28.56	0
2/28/23 0:30	1.252	12.78	15.63	0.876	28.55	0
2/28/23 0:45	1.226	44.86	44.49	0.978	28.55	0
2/28/23 1:00	1.546	89	17	1.014	28.55	0
2/28/23 1:15	0.705	117.3	43.51	1.08	28.56	0
2/28/23 1:30	3.47	147.5	10.4	1.561	28.56	0
2/28/23 1:45	3.867	150.1	7.45	1.414	28.56	0
2/28/23 2:00	4.085	148.7	6.129	1.275	28.57	0
2/28/23 2:15	4.065	144.9	8.11	0.874	28.57	0
2/28/23 2:30	4.001	143.5	6.548	0.559	28.57	0
2/28/23 2:45	3.855	145.4	5.381	0.231	28.58	0
2/28/23 3:00	3.343	130.2	10.24	0.092	28.58	0
2/28/23 3:15	2.977	117	9.67	0.194	28.58	0
2/28/23 3:30	3.439	121.9	9.43	0.375	28.57	0
2/28/23 3:45	3.459	140.8	9.97	0.609	28.58	0
2/28/23 4:00	4.435	146.9	6.857	0.706	28.58	0
2/28/23 4:15	4.431	150.1	5.637	0.599	28.59	0
2/28/23 4:30	4.477	143.9	7.19	0.488	28.59	0
2/28/23 4:45	4.534	153.4	11.69	0.627	28.6	0.01
2/28/23 5:00	5.279	169.8	11.25	0.973	28.6	0.01
2/28/23 5:15	4.94	179.3	9.08	1.055	28.61	0
2/28/23 5:30	5.879	180.5	12.43	1.122	28.61	0
2/28/23 5:45	6.705	186.4	10.73	1.185	28.62	0
2/28/23 6:00	5.429	183.8	10.42	1.152	28.63	0
2/28/23 6:15	7.074	172.2	9.82	1.198	28.63	0
2/28/23 6:30	6.514	163.1	10.65	1.158	28.64	0
2/28/23 6:45	6.353	153.6	8.95	0.954	28.64	0
2/28/23 7:00	5.498	146.7	7.509	0.731	28.65	0
2/28/23 7:15	4.353	134	9.61	0.75	28.65	0
2/28/23 7:30	4.092	133.3	11.3	0.709	28.66	0
2/28/23 7:45	3.936	137.5	10.23	0.788	28.67	0
2/28/23 8:00	3.692	141.3	8.94	1.229	28.67	0
2/28/23 8:15	3.974	143.1	8.66	1.688	28.67	0
2/28/23 8:30	4.597	153.8	10.65	1.997	28.68	0
2/28/23 8:45	4.532	149.8	8.07	2.086	28.68	0
2/28/23 9:00	4.567	163.9	14.17	2.868	28.68	0
2/28/23 9:15	5.037	186.6	12.44	2.792	28.69	0
2/28/23 9:30	6.124	195.2	10.05	2.781	28.69	0
2/28/23 9:45	4.798	194.6	9.86	2.883	28.7	0
2/28/23 10:00	5.326	191.9	14.73	3.098	28.7	0
2/28/23 10:15	5.264	192.8	11.13	3.293	28.7	0
2/28/23 10:30	4.71	200.7	20.64	3.76	28.71	0
2/28/23 10:45	6.093	218	8.66	3.846	28.71	0
2/28/23 11:00	5.579	213.2	13.82	4.152	28.71	0
2/28/23 11:15	5.329	235.5	9.77	3.704	28.72	0
2/28/23 11:30	5.402	233.5	15.08	4.05	28.73	0
2/28/23 11:45	5.714	238.6	9.56	3.983	28.73	0
2/28/23 12:00	4.725	222.8	11.24	4.011	28.73	0
2/28/23 12:15	5.699	214	8.21	4.473	28.73	0
2/28/23 12:30	4.155	229.3	26.48	5.013	28.73	0
2/28/23 12:45	5.187	253.7	11.33	4.598	28.73	0
2/28/23 13:00	4.745	253.1	14.19	4.701	28.74	0
2/28/23 13:15	4.155	257.7	13.21	4.976	28.74	0
2/28/23 13:30	4.827	258.8	12.35	5.701	28.74	0
2/28/23 13:45	4.001	255.3	17.26	5.061	28.74	0
2/28/23 14:00	3.297	267.4	24.01	5.631	28.75	0

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/28/23 14:15	3.102	253.8	25.97	6.177	28.75	0
2/28/23 14:30	5.074	317	13.03	5.302	28.75	0
2/28/23 14:45	4.418	293.5	11.8	4.795	28.76	0
2/28/23 15:00	2.948	331.9	34.39	4.922	28.77	0
2/28/23 15:15	4.534	13.35	16.42	4.587	28.77	0
2/28/23 15:30	4.161	4.347	19.66	4.299	28.78	0
2/28/23 15:45	4.532	348.3	29.02	4.257	28.78	0
2/28/23 16:00	3.582	1.033	25.51	3.765	28.79	0
2/28/23 16:15	5.61	16.67	9.44	2.486	28.79	0
2/28/23 16:30	5.758	6.645	15.88	2.29	28.8	0
2/28/23 16:45	4.57	0.79	17.69	2.185	28.81	0
2/28/23 17:00	3.932	5.62	16.57	2.007	28.81	0
2/28/23 17:15	3.572	14.54	13.04	1.888	28.82	0
2/28/23 17:30	3.062	16.21	14.48	1.724	28.83	0
2/28/23 17:45	1.743	7.868	30.1	1.687	28.83	0
2/28/23 18:00	1.51	323.4	47.59	1.641	28.84	0
2/28/23 18:15	1.621	290.3	33.32	1.762	28.85	0
2/28/23 18:30	1.282	295.8	43.92	1.671	28.86	0
2/28/23 18:45	1.633	268.3	26.29	1.677	28.87	0
2/28/23 19:00	0.796	299.7	17.86	1.648	28.88	0
2/28/23 19:15	0.925	26.46	25.66	1.143	28.89	0
2/28/23 19:30	2.41	27.96	6.785	0.598	28.89	0
2/28/23 19:45	2.098	17.9	16.01	0.347	28.89	0
2/28/23 20:00	1.403	351.6	14.12	0.536	28.9	0
2/28/23 20:15	0.906	15.75	29.58	0.98	28.91	0
2/28/23 20:30	1.851	24.68	18.41	0.919	28.91	0
2/28/23 20:45	1.395	24.88	16.79	1.054	28.92	0
2/28/23 21:00	0.54	39.76	12.02	0.461	28.93	0
2/28/23 21:15	1.186	32.88	12.88	0.078	28.93	0
2/28/23 21:30	0.61	25.9	12.16	-0.226	28.94	0
2/28/23 21:45	0.288	17.82	25.67	-0.332	28.95	0
2/28/23 22:00	0.45	339.8	28.66	-0.071	28.95	0
2/28/23 22:15	0.785	21.18	4.278	-0.03	28.96	0
2/28/23 22:30	1.036	34.36	9.16	-0.37	28.97	0
2/28/23 22:45	1.087	18.42	16.49	-0.364	28.98	0
2/28/23 23:00	1.147	27.91	5.616	-0.331	28.98	0
2/28/23 23:15	1.03	22.89	9.13	-0.366	29	0
2/28/23 23:30	1.105	19.08	6.799	-0.557	29.01	0
2/28/23 23:45	0.993	27.15	4.06	-0.775	29.01	0
3/1/23 0:00	0.514	310.3	22.46	-1.148	29.02	0
3/1/23 0:15	0.072	271.1	9.44	-0.899	29.02	0
3/1/23 0:30	0.312	39.78	33.51	-1.281	29.02	0
3/1/23 0:45	0.248	100.7	32.14	-1.539	29.03	0
3/1/23 1:00	1.005	128.6	7.311	-1.309	29.04	0
3/1/23 1:15	1.085	123.8	9.54	-1.189	29.04	0
3/1/23 1:30	1.172	96.8	2.12	-1.705	29.04	0
3/1/23 1:45	0.855	118.6	15.36	-1.793	29.05	0
3/1/23 2:00	1.558	136.1	6.325	-1.278	29.06	0
3/1/23 2:15	1.569	119.9	10.14	-1.219	29.07	0
3/1/23 2:30	1.693	137	9.6	-1.171	29.08	0
3/1/23 2:45	1.257	124	4.971	-0.958	29.09	0
3/1/23 3:00	1.05	122	4.824	-1.035	29.1	0
3/1/23 3:15	0.607	78.12	11.49	-1.607	29.1	0
3/1/23 3:30	0.426	125.7	3.53	-1.562	29.1	0
3/1/23 3:45	0.577	112.2	11.13	-1.666	29.1	0
3/1/23 4:00	0.779	135.7	12.98	-1.687	29.11	0
3/1/23 4:15	0.777	92.6	11.08	-1.565	29.12	0
3/1/23 4:30	0.111	35.24	43.63	-1.282	29.14	0
3/1/23 4:45	1.054	220.2	39.71	-1.523	29.15	0
3/1/23 5:00	1.252	125.6	15.4	-1.739	29.15	0
3/1/23 5:15	0.867	118.9	18.79	-1.955	29.16	0
3/1/23 5:30	0.965	117.8	18.18	-1.732	29.16	0
3/1/23 5:45	2.046	157.9	10.24	-1.634	29.16	0
3/1/23 6:00	1.742	140.6	18.93	-1.508	29.17	0
3/1/23 6:15	1.415	116.5	9.94	-1.71	29.18	0
3/1/23 6:30	1.65	139.3	7.594	-1.807	29.18	0
3/1/23 6:45	2.033	152.4	6.804	-1.604	29.18	0
3/1/23 7:00	1.402	120	7.853	-1.648	29.19	0
3/1/23 7:15	1.391	135.3	6.486	-1.481	29.19	0
3/1/23 7:30	1.612	149.3	3.763	-1.333	29.2	0
3/1/23 7:45	1.34	157.5	11.65	-1.083	29.2	0
3/1/23 8:00	0.912	174.9	11.66	-0.892	29.2	0
3/1/23 8:15	1.323	194.8	12.06	-1.055	29.21	0
3/1/23 8:30	1.489	158.7	17.2	-0.322	29.21	0
3/1/23 8:45	1.498	185.8	17.01	-0.343	29.22	0.01

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/1/23 9:00	1.79	175	14.87	0.233	29.22	0
3/1/23 9:15	2.001	184.6	11.78	0.278	29.23	0
3/1/23 9:30	1.493	175.1	15.74	0.442	29.23	0
3/1/23 9:45	1.147	192.1	15.82	0.47	29.23	0
3/1/23 10:00	1.078	211.2	18.13	0.637	29.24	0
3/1/23 10:15	1.243	209.2	17.99	0.976	29.24	0
3/1/23 10:30	1.296	187.9	23.37	1.841	29.25	0
3/1/23 10:45	1.895	173.2	26.94	2.357	29.25	0
3/1/23 11:00	2.046	181.4	21.4	2.869	29.25	0
3/1/23 11:15	2.435	161.1	22.95	3.419	29.25	0
3/1/23 11:30	2.964	194.9	12.19	3.664	29.25	0
3/1/23 11:45	2.898	182.4	16.37	3.942	29.25	0
3/1/23 12:00	2.508	176.2	30.64	4.609	29.25	0
3/1/23 12:15	2.386	188.8	22.34	4.706	29.26	0
3/1/23 12:30	3.629	194.9	30.13	4.983	29.26	0
3/1/23 12:45	3.443	208.1	19.35	5.127	29.26	0
3/1/23 13:00	4.308	242.9	15.16	5.012	29.26	0
3/1/23 13:15	4.523	237	20.26	5.182	29.27	0
3/1/23 13:30	3.457	221.2	22.1	5.108	29.26	0
3/1/23 13:45	4.168	240.1	10.72	5.165	29.27	0
3/1/23 14:00	3.95	237.5	14.79	5.449	29.27	0
3/1/23 14:15	3.623	227.5	20.7	5.536	29.27	0
3/1/23 14:30	4.258	212.8	22.36	5.516	29.27	0
3/1/23 14:45	4.075	230.1	21.52	5.621	29.27	0
3/1/23 15:00	4.933	246.5	9.94	5.467	29.27	0
3/1/23 15:15	4.25	237.2	10.47	5.377	29.27	0
3/1/23 15:30	4.886	233.7	12.78	5.407	29.27	0
3/1/23 15:45	3.926	238.7	13.53	5.586	29.27	0
3/1/23 16:00	4.483	232.8	10.42	5.553	29.27	0
3/1/23 16:15	3.222	248.7	11.86	5.5	29.28	0
3/1/23 16:30	4.042	229.8	13.27	5.465	29.27	0
3/1/23 16:45	3.833	234.7	14.2	5.453	29.27	0
3/1/23 17:00	4.856	226.1	10.84	5.333	29.26	0
3/1/23 17:15	5.351	218.7	9.3	5.218	29.26	0
3/1/23 17:30	4.295	221.4	8.13	5.134	29.26	0
3/1/23 17:45	3.891	212.6	6.422	5.07	29.26	0
3/1/23 18:00	4.524	207.5	10.16	4.994	29.26	0
3/1/23 18:15	4.817	214.3	9.9	4.902	29.26	0
3/1/23 18:30	4.202	213.6	10.83	4.705	29.26	0
3/1/23 18:45	3.097	193	7.743	4.571	29.26	0
3/1/23 19:00	3.383	187.4	9.21	4.563	29.26	0
3/1/23 19:15	3.624	186.2	9.02	4.526	29.26	0
3/1/23 19:30	3.758	186.6	8.17	4.419	29.26	0
3/1/23 19:45	4.123	191.3	9.21	4.324	29.26	0
3/1/23 20:00	5.112	226.1	21.67	3.918	29.26	0
3/1/23 20:15	4.113	243	6.55	3.168	29.26	0
3/1/23 20:30	3.644	218.5	12.22	3.019	29.26	0
3/1/23 20:45	2.751	196.3	8.78	3.082	29.26	0
3/1/23 21:00	4.724	192.1	9.99	3.372	29.25	0
3/1/23 21:15	6.32	199.3	9.98	3.04	29.25	0
3/1/23 21:30	7.469	199.5	8.28	2.453	29.26	0.01
3/1/23 21:45	5.275	187.7	10.33	1.976	29.25	0
3/1/23 22:00	4.319	170.1	10.35	1.937	29.25	0
3/1/23 22:15	3.782	150.4	6.363	1.799	29.25	0
3/1/23 22:30	3.956	139.9	8.18	1.812	29.24	0
3/1/23 22:45	4.889	140.7	8.09	1.82	29.23	0
3/1/23 23:00	5.281	146.8	9.74	1.802	29.22	0.01
3/1/23 23:15	5.458	152.4	6.62	1.751	29.23	0.01
3/1/23 23:30	5.072	153.2	6.803	1.786	29.23	0
3/1/23 23:45	5.276	162.2	10.25	1.967	29.22	0
3/2/23 0:00	5.596	173.4	9.88	2.094	29.22	0
3/2/23 0:15	4.692	171.9	7.241	2.086	29.22	0
3/2/23 0:30	4.142	170.4	8.49	2.04	29.22	0.01
3/2/23 0:45	4.703	173.8	10.27	1.949	29.22	0.01
3/2/23 1:00	5.188	173.3	8	1.84	29.21	0
3/2/23 1:15	5.024	170.7	7.325	1.774	29.21	0
3/2/23 1:30	5.413	168.2	9.57	1.659	29.2	0.01
3/2/23 1:45	5.318	162.2	10.15	1.517	29.2	0.01
3/2/23 2:00	5.039	149.2	9.73	1.22	29.19	0.01
3/2/23 2:15	5.369	144.6	7.139	0.931	29.18	0.02
3/2/23 2:30	5.514	145	7.347	0.797	29.17	0
3/2/23 2:45	5.628	148.7	7.045	0.898	29.16	0
3/2/23 3:00	5.296	143	7.746	1.033	29.15	0
3/2/23 3:15	4.636	138.2	8.26	1.04	29.15	0
3/2/23 3:30	4.228	135.2	9.06	1.079	29.14	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/2/23 3:45	4.651	138	7.202	1.257	29.13	0
3/2/23 4:00	3.792	136.4	7.973	1.502	29.12	0
3/2/23 4:15	3.535	129.9	8.35	1.698	29.11	0
3/2/23 4:30	3.835	130.2	8.46	1.903	29.1	0
3/2/23 4:45	4.035	135.5	9.79	2.427	29.1	0.01
3/2/23 5:00	4.004	138.5	11.04	2.681	29.09	0
3/2/23 5:15	4.126	151.7	10.89	2.863	29.08	0.01
3/2/23 5:30	4.536	155.4	12.78	3.009	29.07	0
3/2/23 5:45	4.06	155.6	10.31	2.998	29.07	0.01
3/2/23 6:00	3.588	162.2	10.29	2.866	29.07	0
3/2/23 6:15	3.572	160.2	11.29	2.806	29.06	0.01
3/2/23 6:30	2.819	148.9	12.79	2.634	29.05	0
3/2/23 6:45	2.801	151.6	12.86	2.576	29.05	0.01
3/2/23 7:00	1.661	133.8	18.85	2.568	29.05	0.01
3/2/23 7:15	1.534	134.6	17.67	2.512	29.05	0
3/2/23 7:30	2.307	151.6	16.33	2.719	29.05	0.01
3/2/23 7:45	4.078	172	9.8	3.183	29.05	0.01
3/2/23 8:00	3.652	178.3	12.54	3.144	29.04	0
3/2/23 8:15	5.194	188.9	10.11	3.378	29.04	0.01
3/2/23 8:30	6.727	195.5	10.2	3.666	29.04	0
3/2/23 8:45	8.17	196.4	9.34	3.812	29.04	0
3/2/23 9:00	9.05	191.8	9.56	3.742	29.04	0.01
3/2/23 9:15	9.69	189.9	8.92	3.684	29.04	0
3/2/23 9:30	8.01	189	11.19	3.781	29.05	0
3/2/23 9:45	7.615	183	12.61	4.101	29.06	0
3/2/23 10:00	6.478	186.5	14.46	4.07	29.07	0
3/2/23 10:15	7.411	185.9	14.08	4.178	29.07	0
3/2/23 10:30	6.057	220.6	22.76	4.256	29.08	0
3/2/23 10:45	7.746	207.5	9.01	4.404	29.08	0
3/2/23 11:00	7.611	203.3	11.43	4.605	29.08	0
3/2/23 11:15	6.448	214.8	9.91	4.717	29.09	0
3/2/23 11:30	6.145	219.8	13.1	4.897	29.09	0
3/2/23 11:45	6.7	220.8	9.2	5.203	29.09	0
3/2/23 12:00	7.057	207.6	12.11	5.417	29.09	0
3/2/23 12:15	7.185	201.5	10.81	5.368	29.08	0
3/2/23 12:30	6.793	207.2	12.4	5.3	29.08	0
3/2/23 12:45	6.736	200.4	8.31	5.44	29.08	0
3/2/23 13:00	6.431	219.4	12.05	5.785	29.08	0
3/2/23 13:15	7.204	224.7	10.98	5.941	29.08	0
3/2/23 13:30	7.496	225.6	9.81	6.501	29.07	0
3/2/23 13:45	7.085	222.8	11.84	6.954	29.07	0
3/2/23 14:00	8.45	224.8	8.91	7.135	29.07	0
3/2/23 14:15	7.722	227.3	10.62	7.236	29.08	0
3/2/23 14:30	8.65	226	9.41	7.308	29.08	0
3/2/23 14:45	8.67	223.3	9.96	7.343	29.08	0
3/2/23 15:00	8.14	222.9	7.22	7.27	29.08	0
3/2/23 15:15	7.209	212.5	11.8	7.056	29.09	0
3/2/23 15:30	7.116	225.8	12.14	6.797	29.09	0
3/2/23 15:45	6.084	221.5	10.6	6.653	29.1	0
3/2/23 16:00	5.649	215.9	11.71	6.796	29.11	0
3/2/23 16:15	5.755	208.1	9.48	6.436	29.11	0
3/2/23 16:30	6.694	210.4	8.95	6.297	29.12	0
3/2/23 16:45	7.481	212	10.77	6.096	29.12	0
3/2/23 17:00	8.42	211.9	8.7	6.006	29.12	0
3/2/23 17:15	6.783	199	9.23	5.813	29.12	0
3/2/23 17:30	5.803	199.2	14.27	5.39	29.13	0
3/2/23 17:45	5.855	207	9.45	4.96	29.13	0
3/2/23 18:00	6.063	211.7	9.8	4.719	29.14	0
3/2/23 18:15	6.469	212.6	9.82	4.469	29.14	0
3/2/23 18:30	7.648	205.4	10.34	4.182	29.14	0
3/2/23 18:45	7.373	198	10.19	3.692	29.14	0
3/2/23 19:00	6.84	194.4	9.5	3.189	29.15	0
3/2/23 19:15	5.393	194.1	11.81	3.093	29.16	0
3/2/23 19:30	5.253	196.7	12.78	2.982	29.17	0
3/2/23 19:45	4.028	188.4	10.57	2.936	29.17	0
3/2/23 20:00	4.117	191.7	11.51	2.967	29.17	0
3/2/23 20:15	4.558	188.7	12.4	2.956	29.17	0
3/2/23 20:30	4.188	181.4	10.1	2.909	29.18	0
3/2/23 20:45	4.414	187	12.6	2.84	29.19	0
3/2/23 21:00	5.85	185.2	7.61	2.821	29.18	0
3/2/23 21:15	5.758	189.1	8.79	2.756	29.19	0
3/2/23 21:30	5.245	178.7	10.85	2.682	29.19	0
3/2/23 21:45	4.959	184.4	10.49	2.563	29.19	0
3/2/23 22:00	4.792	183.4	9.26	2.471	29.19	0
3/2/23 22:15	3.836	189.5	11.94	2.378	29.2	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/2/23 22:30	4.545	189.9	9.69	2.257	29.2	0
3/2/23 22:45	4.961	191.7	11.54	2.223	29.2	0
3/2/23 23:00	4.096	177.7	11.9	2.222	29.2	0
3/2/23 23:15	4.085	180.5	11.8	2.257	29.2	0
3/2/23 23:30	5.471	180.7	12.14	2.271	29.19	0
3/2/23 23:45	5.459	195.4	11.83	2.185	29.19	0
3/3/23 0:00	5.06	184.7	11.51	2.134	29.19	0
3/3/23 0:15	6.184	185	8.59	2.077	29.19	0
3/3/23 0:30	6.286	196.4	9.23	2.039	29.18	0
3/3/23 0:45	5.789	181.8	12.66	2.037	29.19	0
3/3/23 1:00	5.447	185.8	9.3	1.937	29.19	0
3/3/23 1:15	5.023	180.4	11.92	1.92	29.19	0
3/3/23 1:30	5.066	187.5	11.47	1.889	29.2	0
3/3/23 1:45	5.009	174.3	11.13	1.879	29.2	0
3/3/23 2:00	5.308	175.8	9.62	1.886	29.2	0
3/3/23 2:15	4.748	161.5	17	1.894	29.2	0
3/3/23 2:30	3.838	170.4	20.04	1.816	29.2	0
3/3/23 2:45	4.24	174.4	17.15	1.699	29.2	0
3/3/23 3:00	4.578	158.7	12.13	1.609	29.19	0
3/3/23 3:15	6.355	153.6	10.55	1.731	29.19	0
3/3/23 3:30	3.853	181.9	23.93	1.821	29.19	0
3/3/23 3:45	5.045	176.6	11.04	1.862	29.19	0
3/3/23 4:00	5.544	172.3	12.1	1.982	29.19	0
3/3/23 4:15	4.926	174.5	9.14	1.972	29.19	0
3/3/23 4:30	4.458	173.2	12	1.954	29.19	0
3/3/23 4:45	5.168	173.8	8.42	1.922	29.19	0
3/3/23 5:00	5.356	171.5	11.34	1.967	29.19	0
3/3/23 5:15	4.585	173.3	12.24	1.96	29.19	0
3/3/23 5:30	4.33	163.2	14.07	1.971	29.19	0
3/3/23 5:45	5.069	175.5	12.44	1.979	29.18	0
3/3/23 6:00	5.758	178.2	9.1	1.994	29.18	0
3/3/23 6:15	6.383	180.9	11.22	1.889	29.18	0
3/3/23 6:30	5.584	174.8	8.92	1.783	29.17	0
3/3/23 6:45	4.811	171.7	9.72	1.746	29.17	0
3/3/23 7:00	4.734	176	10.48	1.769	29.17	0
3/3/23 7:15	4.69	177.6	11.76	1.73	29.17	0
3/3/23 7:30	4.699	180	12.9	1.681	29.17	0
3/3/23 7:45	4.749	184.3	10.55	1.647	29.17	0
3/3/23 8:00	4.525	179.7	9.78	1.631	29.17	0
3/3/23 8:15	5.111	177.6	10.42	1.617	29.17	0
3/3/23 8:30	5.424	179.3	9.27	1.566	29.17	0
3/3/23 8:45	5.42	178	8.27	1.541	29.17	0
3/3/23 9:00	5.229	174.9	8.76	1.542	29.17	0
3/3/23 9:15	5.089	175.1	11.38	1.767	29.17	0
3/3/23 9:30	5.554	172.4	9.88	2.118	29.16	0
3/3/23 9:45	6.27	172.4	8.96	2.322	29.16	0
3/3/23 10:00	5.875	180.3	10.69	2.436	29.16	0
3/3/23 10:15	5.827	176.9	9.06	2.442	29.16	0
3/3/23 10:30	5.804	177.8	10.38	2.582	29.15	0
3/3/23 10:45	6.098	175.9	8.79	2.952	29.15	0
3/3/23 11:00	5.504	176.1	10.76	3.291	29.15	0
3/3/23 11:15	5.592	181.8	8.55	3.322	29.14	0
3/3/23 11:30	4.757	182.8	8.95	3.054	29.14	0
3/3/23 11:45	5.568	175.8	8.8	3.377	29.14	0
3/3/23 12:00	5.513	178.5	8.19	3.295	29.13	0
3/3/23 12:15	4.376	171.1	8.94	3.258	29.13	0
3/3/23 12:30	5.81	175.8	10.62	3.068	29.12	0.01
3/3/23 12:45	6.593	179.1	8.99	3.379	29.11	0
3/3/23 13:00	5.014	177.5	11.33	3.193	29.11	0
3/3/23 13:15	4.342	150.5	10.73	3.323	29.1	0
3/3/23 13:30	5.089	172.5	13.32	2.913	29.1	0
3/3/23 13:45	3.721	171.2	8.67	2.673	29.09	0.01
3/3/23 14:00	3.348	155.8	11.39	2.953	29.08	0
3/3/23 14:15	3.262	151.1	12.22	2.937	29.08	0.01
3/3/23 14:30	4.247	189.8	10.42	2.756	29.07	0
3/3/23 14:45	3.676	178.7	12.53	2.486	29.07	0.01
3/3/23 15:00	3.238	145.5	11.28	2.191	29.06	0
3/3/23 15:15	2.496	129	13.51	2.197	29.06	0.01
3/3/23 15:30	2.385	117.6	11.74	2.101	29.05	0
3/3/23 15:45	2.395	102.1	11.35	1.899	29.04	0
3/3/23 16:00	2.075	94.6	12.41	1.77	29.04	0
3/3/23 16:15	2.347	108.5	16.54	1.853	29.03	0.01
3/3/23 16:30	4.065	144.1	11.22	1.816	29.02	0.02
3/3/23 16:45	2.926	129.7	11.22	1.663	29.02	0.01
3/3/23 17:00	2.774	123.1	8.87	1.785	29.01	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/3/23 17:15	2.923	123.1	6.976	1.872	29	0.01
3/3/23 17:30	3.054	125.9	8.89	1.941	29	0
3/3/23 17:45	3.913	139.5	8.96	1.948	28.99	0.01
3/3/23 18:00	4.308	143.5	9.82	1.366	28.99	0.03
3/3/23 18:15	2.897	126.9	8.4	1.01	28.99	0
3/3/23 18:30	3.056	119.1	7.799	1.046	28.98	0.01
3/3/23 18:45	2.886	112.5	9.04	1.053	28.98	0
3/3/23 19:00	3.169	120.1	9.2	1.015	28.97	0.01
3/3/23 19:15	3.328	127	8.11	1.049	28.97	0
3/3/23 19:30	3.704	123	8.21	1.141	28.96	0.01
3/3/23 19:45	3.834	116.5	9.38	1.239	28.95	0.01
3/3/23 20:00	3.759	119.5	11.04	1.391	28.95	0
3/3/23 20:15	3.367	107.5	9.83	1.599	28.94	0.01
3/3/23 20:30	2.604	112.8	9.29	1.827	28.93	0
3/3/23 20:45	2.593	138.1	14.05	2.026	28.92	0
3/3/23 21:00	3.932	127.5	9.37	2.203	28.92	0
3/3/23 21:15	4.17	122.2	8.44	2.347	28.91	0
3/3/23 21:30	3.577	123.9	8.07	2.387	28.91	0
3/3/23 21:45	3.458	138.8	17.76	2.369	28.91	0
3/3/23 22:00	3.44	137.3	17.49	2.463	28.9	0
3/3/23 22:15	4.242	145.5	14.56	2.282	28.9	0
3/3/23 22:30	3.808	120.7	11.57	2.129	28.9	0
3/3/23 22:45	3.988	114.4	9.26	1.945	28.89	0
3/3/23 23:00	4.399	118.8	9.13	1.87	28.88	0.01
3/3/23 23:15	4.092	121.6	9.54	1.912	28.88	0
3/3/23 23:30	4.478	122.3	8.91	1.943	28.87	0.01
3/3/23 23:45	3.918	121.7	10.3	2.079	28.86	0
3/4/23 0:00	4.651	129.3	8.15	2.066	28.86	0.03
3/4/23 0:15	4.746	119.7	11.9	1.526	28.86	0.02
3/4/23 0:30	3.963	112.8	10.84	1.285	28.85	0.02
3/4/23 0:45	4.466	124.1	8.59	1.348	28.84	0
3/4/23 1:00	4.126	112.2	12.07	1.602	28.83	0
3/4/23 1:15	4.249	112.3	11.14	1.833	28.83	0
3/4/23 1:30	4.841	120.5	10.71	2.018	28.82	0.01
3/4/23 1:45	5.459	121.4	9.31	2.086	28.82	0
3/4/23 2:00	4.772	125	12.75	2.136	28.81	0.01
3/4/23 2:15	4.566	130.4	10.42	1.892	28.81	0
3/4/23 2:30	4.874	123.1	9.74	1.864	28.81	0.02
3/4/23 2:45	4.352	119.2	7.595	1.488	28.8	0.01
3/4/23 3:00	4.458	110.3	11.13	1.291	28.79	0.01
3/4/23 3:15	3.485	93.4	13.98	1.252	28.78	0
3/4/23 3:30	1.893	68.17	24.45	1.348	28.76	0
3/4/23 3:45	1.945	103.4	36.19	1.492	28.75	0
3/4/23 4:00	6.101	128.1	10.38	2.3	28.75	0
3/4/23 4:15	4.683	112.8	15.31	2.247	28.75	0
3/4/23 4:30	3.115	103.9	14.18	2.008	28.74	0
3/4/23 4:45	4.217	112.1	11.66	2.225	28.73	0
3/4/23 5:00	2.337	110.7	14.5	2.306	28.73	0
3/4/23 5:15	2.683	117.7	11.51	2.139	28.73	0
3/4/23 5:30	4.239	113.8	10.42	2.491	28.73	0
3/4/23 5:45	3.855	112.8	11.42	2.466	28.72	0
3/4/23 6:00	4.397	112.1	11.53	2.202	28.72	0.01
3/4/23 6:15	3.058	118.8	12.72	1.89	28.71	0
3/4/23 6:30	2.593	88.7	18.71	1.899	28.7	0
3/4/23 6:45	3.282	93.2	16.27	2.174	28.69	0
3/4/23 7:00	3.11	120.9	17.16	2.479	28.69	0
3/4/23 7:15	3.349	119.5	15.73	2.625	28.68	0
3/4/23 7:30	3.125	105.4	14.55	2.742	28.68	0
3/4/23 7:45	3.129	86.2	13.1	2.891	28.67	0
3/4/23 8:00	3.37	74.55	25.06	3.024	28.66	0
3/4/23 8:15	3.182	70.82	20.74	3.037	28.66	0
3/4/23 8:30	3.031	122.5	11.57	3.428	28.65	0.01
3/4/23 8:45	3.93	143	12.34	3.478	28.65	0
3/4/23 9:00	7.524	137.9	14.26	3.35	28.66	0
3/4/23 9:15	5.411	124.2	16.04	2.298	28.66	0.03
3/4/23 9:30	4.002	74.59	19.83	1.896	28.65	0.02
3/4/23 9:45	3.882	50.99	14.53	2.117	28.64	0.01
3/4/23 10:00	3.224	52.23	8.56	2.687	28.63	0
3/4/23 10:15	2.472	62.6	13.63	3.282	28.63	0
3/4/23 10:30	2.316	79.67	18.86	3.767	28.63	0
3/4/23 10:45	3.857	110.2	16.78	4.185	28.63	0
3/4/23 11:00	4.75	115.9	13.45	4.466	28.63	0
3/4/23 11:15	5.582	120.2	13.07	4.774	28.62	0
3/4/23 11:30	5.412	126.7	12.53	4.904	28.62	0
3/4/23 11:45	5.423	126.7	13.62	5.164	28.63	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/4/23 12:00	5.233	125	13.92	5.632	28.62	0
3/4/23 12:15	5.844	111.9	16.32	5.928	28.61	0
3/4/23 12:30	6.679	111.4	12.44	5.994	28.61	0
3/4/23 12:45	7.134	114.9	13.09	6.215	28.61	0
3/4/23 13:00	6.917	117.6	12.8	6.31	28.61	0
3/4/23 13:15	6.649	122.8	13.76	6.337	28.61	0
3/4/23 13:30	6.997	131.8	13.78	6.379	28.62	0
3/4/23 13:45	7.033	167.1	13.12	6.272	28.63	0
3/4/23 14:00	6.821	189.3	15.77	5.864	28.64	0
3/4/23 14:15	6.179	144.3	33.45	4.78	28.65	0
3/4/23 14:30	5.486	111.3	16.39	4.651	28.65	0
3/4/23 14:45	6.834	109.3	14.39	5.236	28.64	0
3/4/23 15:00	7.263	114.5	14.34	5.677	28.64	0
3/4/23 15:15	5.379	109.2	13.46	5.75	28.64	0
3/4/23 15:30	5.364	122.9	17.61	5.966	28.64	0
3/4/23 15:45	6.05	112.1	14.26	6.071	28.65	0
3/4/23 16:00	6.924	113.4	12.45	5.988	28.65	0
3/4/23 16:15	6.427	115.7	10.78	5.957	28.65	0
3/4/23 16:30	5.951	118.8	10.19	5.919	28.66	0
3/4/23 16:45	6.527	114.8	11.07	5.854	28.66	0
3/4/23 17:00	6.557	119.1	9.64	5.774	28.67	0
3/4/23 17:15	5.789	116.7	12.51	5.557	28.68	0
3/4/23 17:30	5.911	114	11.56	5.554	28.68	0
3/4/23 17:45	5.289	118.7	10.48	5.426	28.69	0
3/4/23 18:00	4.882	116.8	9.58	5.293	28.7	0
3/4/23 18:15	3.849	118.6	9.55	5.167	28.7	0
3/4/23 18:30	4.27	127.5	11.07	5.126	28.71	0
3/4/23 18:45	3.787	121.5	11.98	4.98	28.72	0
3/4/23 19:00	3.396	167.9	25.46	4.815	28.73	0
3/4/23 19:15	3.031	158.5	22.65	4.4	28.73	0
3/4/23 19:30	2.387	213.9	20.21	4.208	28.74	0
3/4/23 19:45	1.281	226.3	15.01	4.359	28.75	0
3/4/23 20:00	1.035	135.9	45.25	4.282	28.75	0
3/4/23 20:15	0.986	110.2	23.53	3.968	28.76	0
3/4/23 20:30	1.045	177.4	15.96	4.152	28.76	0
3/4/23 20:45	0.419	82.5	9.7	3.9	28.77	0
3/4/23 21:00	1.771	130.6	16.06	3.763	28.78	0
3/4/23 21:15	2.047	133.5	7.084	3.64	28.78	0
3/4/23 21:30	1.26	116.3	16.41	3.514	28.79	0
3/4/23 21:45	1.152	94.7	27.78	2.975	28.79	0
3/4/23 22:00	1.649	111.1	9.61	3.247	28.79	0
3/4/23 22:15	0.985	107.7	17.18	3.106	28.79	0
3/4/23 22:30	1.253	145.1	16.59	3.045	28.79	0
3/4/23 22:45	1.81	147.9	12.66	3.036	28.8	0
3/4/23 23:00	1.514	135.8	9.05	2.883	28.8	0
3/4/23 23:15	1.43	139.2	9.94	2.862	28.81	0
3/4/23 23:30	1.753	147.2	14.73	2.829	28.81	0
3/4/23 23:45	1.43	161.7	12.45	2.565	28.81	0
3/5/23 0:00	1.506	166.8	13.18	2.157	28.81	0
3/5/23 0:15	1.407	160.1	17.24	2.166	28.81	0
3/5/23 0:30	1.489	168.5	12.25	1.743	28.81	0
3/5/23 0:45	1.092	147.2	18.19	1.603	28.81	0
3/5/23 1:00	0.883	50.9	17.79	1.232	28.81	0
3/5/23 1:15	1.161	77.03	11.29	1.03	28.82	0
3/5/23 1:30	0.864	89.3	28.71	0.975	28.82	0
3/5/23 1:45	1.226	46.99	16.74	0.968	28.82	0
3/5/23 2:00	1.728	15.95	5.865	0.981	28.82	0
3/5/23 2:15	1.876	23.01	4.41	0.854	28.82	0
3/5/23 2:30	1.508	35.96	7.388	0.209	28.82	0
3/5/23 2:45	1.145	24.53	16.44	-0.379	28.82	0
3/5/23 3:00	1.295	51.91	7.644	-0.733	28.82	0
3/5/23 3:15	1.303	37.13	12.71	-0.815	28.82	0
3/5/23 3:30	1.639	20.29	14.21	-0.944	28.82	0
3/5/23 3:45	1.926	3.74	16.79	-0.284	28.82	0
3/5/23 4:00	0.468	359.2	28.22	-0.382	28.82	0
3/5/23 4:15	0.907	44.05	7.816	-0.525	28.82	0
3/5/23 4:30	1.619	21.68	9.41	-1.118	28.82	0
3/5/23 4:45	1.702	23.98	7.739	-0.819	28.82	0
3/5/23 5:00	1.339	11.8	31.29	-1.21	28.82	0
3/5/23 5:15	1.233	273	25.48	-1.192	28.83	0
3/5/23 5:30	2.401	222.7	13.79	-1.305	28.84	0
3/5/23 5:45	1.38	32.59	78.15	-1.665	28.85	0
3/5/23 6:00	1.679	52.71	5.858	-2.055	28.85	0
3/5/23 6:15	2.053	95.9	10.22	-1.578	28.85	0
3/5/23 6:30	1.719	103.3	12.47	-1.355	28.85	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/5/23 6:45	1.402	113.6	10.18	-0.948	28.85	0
3/5/23 7:00	1.142	114.9	13.57	-0.715	28.85	0
3/5/23 7:15	0.845	125.6	21.26	-0.149	28.85	0
3/5/23 7:30	0.9	78.44	5.229	0.578	28.86	0
3/5/23 7:45	0.21	80.8	18.11	1.465	28.86	0
3/5/23 8:00	0.204	311.5	38.39	1.712	28.86	0
3/5/23 8:15	1.243	236.4	14.29	0.5	28.87	0
3/5/23 8:30	0.814	218.4	14.48	0.587	28.87	0
3/5/23 8:45	1.35	153.6	25.64	0.815	28.88	0
3/5/23 9:00	1.113	62.84	19.32	1.43	28.88	0
3/5/23 9:15	0.826	17.96	24.17	1.874	28.88	0
3/5/23 9:30	0.898	1.367	28.93	2.468	28.89	0
3/5/23 9:45	1.362	53.24	16.58	2.955	28.89	0
3/5/23 10:00	1.132	48.06	17.93	3.373	28.89	0
3/5/23 10:15	1.181	7.463	21.43	3.781	28.89	0
3/5/23 10:30	1.157	24.21	31.03	4.344	28.88	0
3/5/23 10:45	0.875	352.8	61.45	5.097	28.88	0
3/5/23 11:00	1.332	12.77	23.5	5.565	28.88	0
3/5/23 11:15	1.975	21.6	22.25	5.9	28.88	0
3/5/23 11:30	2.032	13.99	17.61	6.16	28.88	0
3/5/23 11:45	2.323	27.42	16.68	6.493	28.88	0
3/5/23 12:00	0.789	19.2	28.69	6.818	28.88	0
3/5/23 12:15	1.498	17.3	23.3	7.42	28.89	0
3/5/23 12:30	1.509	22.35	24.62	7.436	28.88	0
3/5/23 12:45	1.714	16.06	26.42	8.24	28.88	0
3/5/23 13:00	2.411	27.69	22.21	8.27	28.88	0
3/5/23 13:15	1.212	66.17	54.37	8.45	28.88	0
3/5/23 13:30	1.983	357.9	21.94	8.71	28.88	0
3/5/23 13:45	2.254	25.31	37.05	8.88	28.88	0
3/5/23 14:00	1.743	62.64	29.92	9.14	28.88	0
3/5/23 14:15	3.506	49.31	22.93	9.44	28.88	0
3/5/23 14:30	2.971	101.9	28.73	8.96	28.89	0
3/5/23 14:45	1.672	39.08	40.57	8.88	28.89	0
3/5/23 15:00	3.661	288.5	23.11	8.53	28.89	0
3/5/23 15:15	3.269	306.4	26.51	8.32	28.9	0
3/5/23 15:30	2.138	314.5	22.57	8.49	28.9	0
3/5/23 15:45	1.919	309.2	20.97	8.53	28.9	0
3/5/23 16:00	3.234	278.1	11.05	7.9	28.91	0
3/5/23 16:15	4.918	286.5	9.14	7.507	28.91	0
3/5/23 16:30	4.878	292.7	5.662	7.202	28.91	0
3/5/23 16:45	4.415	278.5	14.56	6.971	28.92	0
3/5/23 17:00	4.145	247.5	8.48	6.469	28.93	0
3/5/23 17:15	4.15	205.8	15.13	6.301	28.94	0
3/5/23 17:30	6.411	224.8	16.41	5.765	28.95	0
3/5/23 17:45	5.491	213.4	12.78	3.976	28.97	0
3/5/23 18:00	2.478	186.3	22.89	3.504	28.99	0
3/5/23 18:15	2.444	181.1	11.79	3.466	29	0.01
3/5/23 18:30	2.768	188.5	10.44	2.948	29.01	0.01
3/5/23 18:45	3.815	176.7	6.934	2.758	29.01	0.01
3/5/23 19:00	3.396	186.4	12.23	2.394	29.02	0.01
3/5/23 19:15	3.952	181	11.34	1.925	29.03	0.02
3/5/23 19:30	2.304	107.6	40.17	0.787	29.03	0.03
3/5/23 19:45	3.041	75.35	11.43	0.657	29.03	0.03
3/5/23 20:00	2.201	93.5	9.23	0.379	29.04	0.02
3/5/23 20:15	2.155	89.6	8.4	0.413	29.04	0.02
3/5/23 20:30	2.266	86.5	8.65	0.725	29.04	0.02
3/5/23 20:45	2.162	100.6	7.445	0.969	29.04	0.02
3/5/23 21:00	2.155	98.7	10.66	1.037	29.04	0.02
3/5/23 21:15	2.107	85.8	17.03	1.285	29.05	0.02
3/5/23 21:30	1.875	50.85	9.49	1.313	29.05	0.01
3/5/23 21:45	1.379	23.98	8.14	1.38	29.05	0
3/5/23 22:00	0.852	5.797	6.665	1.607	29.05	0.01
3/5/23 22:15	0.714	307.5	44.93	1.942	29.06	0.01
3/5/23 22:30	2.299	243.5	5.327	1.972	29.07	0.03
3/5/23 22:45	3.051	244.5	5.314	0.936	29.07	0.03
3/5/23 23:00	1.249	283.8	61.64	0.459	29.08	0.04
3/5/23 23:15	2.227	36.48	3.984	0.236	29.08	0.01
3/5/23 23:30	2.962	46.97	5.086	0.135	29.08	0
3/5/23 23:45	2.552	60.19	7.726	0.467	29.07	0
3/6/23 0:00	2.155	59.11	6.728	0.525	29.08	0
3/6/23 0:15	1.9	31.42	12.42	0.386	29.08	0
3/6/23 0:30	1.859	16.23	5.088	0.665	29.08	0
3/6/23 0:45	1.661	22.9	5.863	0.6	29.09	0
3/6/23 1:00	1.895	21.89	8.13	0.558	29.09	0
3/6/23 1:15	1.918	22.74	9.57	0.709	29.09	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/6/23 1:30	1.617	22.1	9.54	0.712	29.1	0
3/6/23 1:45	1.39	20.69	7.245	0.807	29.1	0
3/6/23 2:00	1.901	28.25	6.101	0.771	29.1	0
3/6/23 2:15	1.876	26.13	6.809	0.736	29.1	0.01
3/6/23 2:30	1.666	33.17	13.28	0.96	29.1	0
3/6/23 2:45	1.553	54.84	6.097	1.009	29.1	0
3/6/23 3:00	0.505	58.76	10.64	1.343	29.1	0
3/6/23 3:15	0.947	33.32	12.83	1.474	29.1	0
3/6/23 3:30	0.795	24.02	15.59	1.377	29.11	0
3/6/23 3:45	1.33	43.21	8.66	1.384	29.11	0
3/6/23 4:00	1.971	51.98	6.265	1.535	29.1	0
3/6/23 4:15	2.067	46.43	5.171	1.388	29.1	0
3/6/23 4:30	1.899	32.49	5.971	1.229	29.1	0
3/6/23 4:45	1.917	28.04	6.548	1.087	29.1	0
3/6/23 5:00	1.791	29.42	5.898	1.027	29.1	0
3/6/23 5:15	2.104	39.47	5.176	1.026	29.1	0
3/6/23 5:30	1.994	26.8	6.359	0.939	29.11	0
3/6/23 5:45	1.666	43.48	22.46	0.696	29.11	0
3/6/23 6:00	1.681	93.9	5.933	0.362	29.11	0
3/6/23 6:15	2.249	93	9.81	0.435	29.11	0
3/6/23 6:30	1.434	111.7	21.54	1.095	29.11	0
3/6/23 6:45	1.654	76.93	9.18	0.509	29.11	0
3/6/23 7:00	0.908	115.2	14.48	0.293	29.11	0
3/6/23 7:15	0.834	161	26.95	1.387	29.12	0
3/6/23 7:30	2.656	186.7	11.07	0.901	29.12	0
3/6/23 7:45	2.904	184.5	9.97	1.006	29.13	0
3/6/23 8:00	2.6	181.4	11.66	1.126	29.14	0
3/6/23 8:15	2.673	143.1	14.29	1.697	29.14	0.01
3/6/23 8:30	1.834	96.2	20.62	2.072	29.14	0
3/6/23 8:45	2.059	126.7	12.45	2.743	29.15	0
3/6/23 9:00	2.041	147.6	12.74	2.795	29.15	0
3/6/23 9:15	2.285	132.4	12.23	3.96	29.15	0
3/6/23 9:30	2.217	142.4	16.72	4.764	29.16	0
3/6/23 9:45	2.783	157	14.04	4.677	29.16	0
3/6/23 10:00	3.181	108.9	21.61	4.551	29.16	0
3/6/23 10:15	2.718	109.6	10.38	5.337	29.16	0
3/6/23 10:30	2.557	119.8	13.8	5.719	29.17	0
3/6/23 10:45	4.754	150.8	12.16	5.87	29.17	0
3/6/23 11:00	4.694	143.9	8.88	5.925	29.17	0.01
3/6/23 11:15	3.322	151	12.82	5.881	29.17	0
3/6/23 11:30	3.167	116.3	28.51	6.324	29.17	0
3/6/23 11:45	3.906	109.5	20.29	6.332	29.17	0
3/6/23 12:00	3.343	115.8	23.67	6.995	29.17	0
3/6/23 12:15	2.941	115.3	14.12	7.412	29.17	0
3/6/23 12:30	3.237	159.4	30.46	7.601	29.17	0
3/6/23 12:45	4.281	162.6	14.27	7.803	29.17	0
3/6/23 13:00	4.668	183.9	24.39	7.559	29.16	0
3/6/23 13:15	5.082	179.6	19.69	8.01	29.16	0
3/6/23 13:30	4.924	164.7	21.75	8.22	29.16	0
3/6/23 13:45	3.207	174.4	27.72	8.22	29.16	0
3/6/23 14:00	4.068	166.1	19.77	8.27	29.16	0
3/6/23 14:15	4.981	144.2	10.24	8.53	29.15	0
3/6/23 14:30	3.9	169	15.56	7.973	29.15	0
3/6/23 14:45	4.469	158.3	11.27	7.954	29.16	0
3/6/23 15:00	3.876	167	10.92	7.943	29.16	0
3/6/23 15:15	3.693	204.1	14.97	7.92	29.16	0
3/6/23 15:30	3.873	198.6	8.95	7.804	29.16	0
3/6/23 15:45	2.403	182.9	32.93	7.772	29.16	0
3/6/23 16:00	3.415	191.9	13.56	7.742	29.16	0
3/6/23 16:15	3.771	169.5	9.5	7.772	29.16	0
3/6/23 16:30	4.148	170.8	11.27	7.6	29.17	0
3/6/23 16:45	4.8	196.1	9.3	7.321	29.16	0
3/6/23 17:00	4.538	188.7	11.39	7.022	29.17	0
3/6/23 17:15	3.846	169	15.21	6.887	29.17	0
3/6/23 17:30	4.696	124.9	14.5	6.421	29.17	0
3/6/23 17:45	5.02	118.4	11.76	5.493	29.17	0
3/6/23 18:00	4.941	124	11.17	4.946	29.18	0
3/6/23 18:15	5.102	117.1	10.48	4.839	29.18	0
3/6/23 18:30	4.652	115.5	9.99	4.81	29.18	0
3/6/23 18:45	4.721	116.4	11.3	4.772	29.19	0
3/6/23 19:00	4.864	120.1	10.76	4.742	29.19	0
3/6/23 19:15	4.85	109.1	12.59	4.52	29.19	0
3/6/23 19:30	4.344	112.2	11.09	4.417	29.19	0
3/6/23 19:45	3.431	110.1	13.27	4.57	29.19	0
3/6/23 20:00	4.45	110.4	11.18	4.489	29.18	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/6/23 20:15	2.365	94.2	14.73	4.083	29.18	0
3/6/23 20:30	1.677	134.7	19.51	4.087	29.18	0
3/6/23 20:45	1.643	113.2	19.23	3.936	29.19	0
3/6/23 21:00	2.15	84.3	23.15	3.866	29.18	0
3/6/23 21:15	1.45	123.7	27.92	3.726	29.19	0
3/6/23 21:30	1.939	132	30.91	3.952	29.19	0
3/6/23 21:45	2.275	204.6	38.54	3.575	29.2	0
3/6/23 22:00	4.765	191.9	13.34	3.18	29.2	0
3/6/23 22:15	3.98	166.9	8.09	3.6	29.21	0
3/6/23 22:30	2.512	177.4	10.51	3.853	29.21	0
3/6/23 22:45	1.064	128.3	49.99	3.563	29.21	0
3/6/23 23:00	0.44	78.65	14.96	3.375	29.22	0
3/6/23 23:15	1.801	39.38	7.412	3.093	29.21	0
3/6/23 23:30	1.781	47.89	16.71	2.843	29.2	0
3/6/23 23:45	1.616	93.9	12.94	3.677	29.21	0
3/7/23 0:00	1.193	120.7	6.233	3.718	29.21	0
3/7/23 0:15	1.286	94.7	11.08	3.702	29.2	0
3/7/23 0:30	1.247	118.4	29.93	3.429	29.2	0
3/7/23 0:45	0.64	68.62	89.3	3.474	29.2	0
3/7/23 1:00	0.957	266.6	35.19	2.839	29.2	0
3/7/23 1:15	1.175	288.3	54.7	2.675	29.2	0
3/7/23 1:30	2.422	260.8	5.543	2.455	29.21	0
3/7/23 1:45	1.926	239.4	10.76	2.834	29.21	0
3/7/23 2:00	0.975	352.3	46.56	2.484	29.22	0
3/7/23 2:15	2.203	49.67	8.88	1.708	29.21	0
3/7/23 2:30	1.753	65.63	39.99	2.463	29.21	0
3/7/23 2:45	1.908	196.7	13.01	1.639	29.21	0
3/7/23 3:00	2.269	168.2	17.64	2.104	29.21	0
3/7/23 3:15	1.442	203.7	8.86	1.768	29.21	0
3/7/23 3:30	1.76	192.2	24.64	1.823	29.21	0
3/7/23 3:45	1.697	199.9	15.83	1.581	29.21	0
3/7/23 4:00	1.109	134.4	25.93	1.48	29.21	0
3/7/23 4:15	1.223	133.9	6.402	1.261	29.21	0
3/7/23 4:30	1.154	147.8	5.806	1.503	29.22	0
3/7/23 4:45	1.028	153.3	6.815	1.648	29.22	0
3/7/23 5:00	0.714	133	9.5	1.601	29.21	0
3/7/23 5:15	0.246	101.8	9.4	1.641	29.21	0
3/7/23 5:30	0.935	75.34	6.585	1.568	29.21	0
3/7/23 5:45	1.179	67.02	4.553	1.393	29.21	0
3/7/23 6:00	1.118	41.83	26.48	1.217	29.21	0
3/7/23 6:15	1.249	31.35	2.582	1.433	29.21	0
3/7/23 6:30	1.526	23.08	6.156	1.324	29.21	0
3/7/23 6:45	1.536	36.59	4.467	0.643	29.2	0
3/7/23 7:00	1.821	23.7	5.149	0.959	29.2	0
3/7/23 7:15	1.841	21.24	8.76	0.974	29.2	0
3/7/23 7:30	2.07	18.1	9.69	0.946	29.2	0
3/7/23 7:45	1.877	7.965	13.33	0.968	29.2	0
3/7/23 8:00	2.154	6.761	13.89	1.232	29.2	0
3/7/23 8:15	2.317	9.14	14.01	1.539	29.2	0
3/7/23 8:30	2.556	16.58	9.52	2.493	29.2	0
3/7/23 8:45	1.806	13.12	18.73	3.344	29.2	0
3/7/23 9:00	1.265	19.27	17.84	4.265	29.2	0
3/7/23 9:15	0.712	31.4	33.63	5.196	29.2	0
3/7/23 9:30	0.806	55.4	41.2	6.17	29.19	0
3/7/23 9:45	0.659	62.62	32.56	6.817	29.2	0
3/7/23 10:00	1.136	88.4	61.88	7.446	29.2	0
3/7/23 10:15	1.72	75.44	27.22	7.082	29.2	0
3/7/23 10:30	1.895	84.4	24.6	7.141	29.19	0
3/7/23 10:45	2.414	84.8	25.77	7.881	29.19	0
3/7/23 11:00	4.415	108.1	16.94	8.89	29.19	0
3/7/23 11:15	4.533	107.9	20.98	8.99	29.19	0
3/7/23 11:30	3.885	118.1	20.05	8.94	29.19	0
3/7/23 11:45	4.425	134.7	18.05	9.51	29.19	0
3/7/23 12:00	3.135	122.9	44.23	9.78	29.18	0
3/7/23 12:15	3.915	138.2	18.06	9.65	29.18	0
3/7/23 12:30	3.063	137.5	32.04	9.73	29.18	0
3/7/23 12:45	3.034	249.5	21.98	8.76	29.17	0
3/7/23 13:00	2.251	265.4	21.92	8.65	29.17	0
3/7/23 13:15	2.088	248.2	18.11	8.64	29.17	0
3/7/23 13:30	1.346	302.2	28.51	8.7	29.17	0
3/7/23 13:45	2.6	10.87	36.85	8.87	29.16	0
3/7/23 14:00	1.678	272.5	29.68	8.78	29.16	0
3/7/23 14:15	2.396	305	14.94	8.55	29.15	0
3/7/23 14:30	2.097	346.5	31.39	8.23	29.15	0
3/7/23 14:45	0.852	25.86	30.59	8.23	29.15	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/7/23 15:00	0.995	350.2	38.62	8.02	29.15	0
3/7/23 15:15	1.344	286.7	70.11	7.977	29.15	0
3/7/23 15:30	3.144	208.3	44.91	7.917	29.15	0
3/7/23 15:45	3.757	212.2	23.23	7.794	29.15	0
3/7/23 16:00	5.188	207.1	9.42	6.864	29.15	0
3/7/23 16:15	4.412	207.5	8.74	5.865	29.15	0
3/7/23 16:30	2.931	183.2	12.87	5.454	29.15	0
3/7/23 16:45	0.848	97.4	59.81	5.412	29.15	0
3/7/23 17:00	0.794	50.22	26.56	5.503	29.15	0
3/7/23 17:15	1.057	160.5	20.43	5.44	29.15	0
3/7/23 17:30	0.438	113.7	19.97	5.316	29.15	0
3/7/23 17:45	2.32	191.2	17.86	5.189	29.15	0
3/7/23 18:00	3.05	226.9	12.37	4.837	29.15	0
3/7/23 18:15	2.042	298.2	33.21	4.657	29.15	0
3/7/23 18:30	1.715	20.9	21.8	4.377	29.15	0
3/7/23 18:45	1.812	80.2	18.04	4.332	29.15	0
3/7/23 19:00	1.656	90.5	11.77	4.4	29.15	0
3/7/23 19:15	1.7	90.9	8.49	4.452	29.15	0
3/7/23 19:30	1.167	87.3	12.64	4.27	29.15	0
3/7/23 19:45	1.277	93.6	10.69	4.056	29.14	0
3/7/23 20:00	1.536	65.46	8.07	4.081	29.14	0
3/7/23 20:15	1.3	43.72	9	4.119	29.14	0
3/7/23 20:30	1.108	30.4	66.08	4.756	29.14	0
3/7/23 20:45	1.574	279.7	14.24	3.736	29.15	0
3/7/23 21:00	2.484	275.3	7.092	3.61	29.15	0
3/7/23 21:15	2.075	291.4	3.935	3.52	29.15	0
3/7/23 21:30	1.944	301.9	16.35	3.476	29.15	0
3/7/23 21:45	1.633	328.5	17.96	3.513	29.14	0
3/7/23 22:00	1.126	338.1	17.01	3.53	29.14	0
3/7/23 22:15	1.449	4.835	13.82	3.442	29.14	0
3/7/23 22:30	0.37	4.244	26	2.289	29.14	0
3/7/23 22:45	1.145	49.65	7.452	2.221	29.14	0
3/7/23 23:00	2.012	43.47	5.317	2.345	29.13	0
3/7/23 23:15	1.851	42.71	6.606	2.54	29.13	0
3/7/23 23:30	2.043	40.58	3.194	2.708	29.13	0
3/7/23 23:45	1.769	46.15	9.22	2.695	29.12	0
3/8/23 0:00	1.536	70.82	9.3	2.943	29.12	0
3/8/23 0:15	1.855	155.1	56.27	1.638	29.12	0
3/8/23 0:30	3.465	189.2	8.57	1.213	29.12	0
3/8/23 0:45	2.866	200.7	6.539	1.482	29.12	0
3/8/23 1:00	1.125	232.2	34.78	1.193	29.12	0
3/8/23 1:15	1.154	338	29.26	1.092	29.11	0
3/8/23 1:30	1.677	1.196	20.37	1.437	29.11	0
3/8/23 1:45	1.037	349	21.17	2.233	29.1	0
3/8/23 2:00	1.192	303.9	29.91	2.218	29.1	0
3/8/23 2:15	1.178	10.59	10.6	2.105	29.1	0
3/8/23 2:30	1.329	13.05	8.54	1.789	29.09	0
3/8/23 2:45	1.499	349.1	16.33	1.796	29.09	0
3/8/23 3:00	1.89	10.09	16.5	2.069	29.09	0
3/8/23 3:15	1.837	23.49	8.67	1.79	29.09	0
3/8/23 3:30	1.932	17.93	11.91	1.895	29.09	0
3/8/23 3:45	1.672	22.94	10.12	1.719	29.09	0
3/8/23 4:00	1.633	19.11	8.82	1.552	29.08	0
3/8/23 4:15	1.235	109.8	73.53	1.281	29.08	0
3/8/23 4:30	2.341	180.4	8.96	0.575	29.09	0
3/8/23 4:45	2.774	173.7	8.9	0.75	29.09	0
3/8/23 5:00	3.083	173.9	9.79	-0.391	29.09	0
3/8/23 5:15	2.096	160.5	10.06	-0.494	29.09	0
3/8/23 5:30	2.301	165	6.893	-0.46	29.1	0
3/8/23 5:45	3.162	168.4	9.16	-0.63	29.1	0
3/8/23 6:00	2.171	148.8	15.09	-0.388	29.1	0
3/8/23 6:15	2.445	128.9	9.38	-0.053	29.1	0
3/8/23 6:30	2.163	105.2	12.88	0.056	29.11	0
3/8/23 6:45	2.372	101.5	8.75	0.014	29.11	0
3/8/23 7:00	2.291	109.2	10.05	0.332	29.11	0
3/8/23 7:15	2.355	121	8.48	0.591	29.11	0
3/8/23 7:30	2.155	128	9.91	0.76	29.12	0
3/8/23 7:45	1.403	122.4	10.37	0.819	29.12	0
3/8/23 8:00	0.579	103.8	14.79	0.937	29.12	0
3/8/23 8:15	0.234	151.5	24.48	1.055	29.11	0
3/8/23 8:30	0.132	301.8	39.67	1.306	29.11	0
3/8/23 8:45	0.75	351.5	23.65	1.708	29.11	0
3/8/23 9:00	0.889	295.8	28.3	1.932	29.11	0
3/8/23 9:15	1.83	261.6	17.09	2.053	29.11	0
3/8/23 9:30	2.308	242.5	9.62	2.406	29.11	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/8/23 9:45	2.053	265.1	16.82	2.73	29.11	0
3/8/23 10:00	2.183	264.2	13.84	2.664	29.11	0
3/8/23 10:15	1.732	248.3	8.46	2.597	29.11	0
3/8/23 10:30	1.744	255.1	16.36	2.986	29.11	0
3/8/23 10:45	2.04	276.9	15.74	3.234	29.11	0
3/8/23 11:00	2.105	253	12.58	3.912	29.11	0
3/8/23 11:15	2.246	271	18.14	4.184	29.11	0
3/8/23 11:30	1.31	300.7	16.03	4.398	29.11	0
3/8/23 11:45	0.936	300	22.3	4.429	29.11	0
3/8/23 12:00	0.713	294.5	12.12	4.619	29.12	0
3/8/23 12:15	0.433	304.1	22.47	4.814	29.12	0
3/8/23 12:30	0.744	162.1	61.27	4.942	29.12	0
3/8/23 12:45	2.022	123.6	23.86	4.696	29.13	0
3/8/23 13:00	2.262	182.3	17.23	4.324	29.13	0.01
3/8/23 13:15	3.638	218.2	8.66	4.3	29.12	0
3/8/23 13:30	2.883	225.4	8.92	4.332	29.12	0
3/8/23 13:45	2.437	228.5	7.457	4.314	29.12	0
3/8/23 14:00	2.255	238.4	13.48	4.273	29.12	0
3/8/23 14:15	2.82	255.4	15.2	4.041	29.13	0
3/8/23 14:30	2.819	264.6	10.32	3.661	29.13	0
3/8/23 14:45	3.387	260.1	9.43	3.352	29.13	0.01
3/8/23 15:00	2.832	258.5	10.45	3.126	29.13	0
3/8/23 15:15	1.474	251.7	22.33	2.9	29.14	0.01
3/8/23 15:30	0.75	270.9	21.2	2.852	29.14	0.01
3/8/23 15:45	0.787	17.29	34.02	3.108	29.14	0
3/8/23 16:00	1.284	71.48	5.376	2.852	29.14	0.01
3/8/23 16:15	1.188	91.4	9.93	2.798	29.14	0
3/8/23 16:30	1.127	94.4	17.32	2.847	29.14	0
3/8/23 16:45	2.22	142.8	4.984	2.82	29.14	0
3/8/23 17:00	2.98	149	5.19	2.778	29.14	0
3/8/23 17:15	2.861	159.2	11.68	2.807	29.14	0
3/8/23 17:30	3.352	178.2	6.85	2.707	29.14	0
3/8/23 17:45	3.99	183.2	9.96	2.381	29.15	0
3/8/23 18:00	4.474	180.8	6.552	1.833	29.15	0
3/8/23 18:15	4.083	182	6.261	1.366	29.15	0
3/8/23 18:30	3.249	160.8	13.46	1.238	29.16	0
3/8/23 18:45	2.625	145.8	6.602	1.166	29.16	0.01
3/8/23 19:00	2.153	139.9	11.1	1.111	29.16	0
3/8/23 19:15	1.807	108.5	12.03	1.113	29.17	0.01
3/8/23 19:30	2.2	131	11.56	1.107	29.17	0
3/8/23 19:45	2.349	116.6	10.12	1.093	29.17	0
3/8/23 20:00	2.328	107.3	8.98	1.092	29.17	0.01
3/8/23 20:15	2.48	111.8	8.77	1.068	29.17	0
3/8/23 20:30	3.456	95.3	10.26	1.074	29.17	0
3/8/23 20:45	3.383	90.7	10.25	1.124	29.17	0
3/8/23 21:00	2.926	95.8	7.173	1.253	29.16	0.01
3/8/23 21:15	2.759	90.7	6.7	1.365	29.16	0
3/8/23 21:30	2.66	89.8	7.412	1.588	29.16	0
3/8/23 21:45	2.551	90.4	10.64	1.889	29.16	0
3/8/23 22:00	1.909	100	13.4	2.014	29.16	0
3/8/23 22:15	1.309	124.7	10.02	2.08	29.16	0
3/8/23 22:30	1.139	119.9	15.06	2.178	29.16	0
3/8/23 22:45	1.058	95.5	21.7	2.459	29.16	0
3/8/23 23:00	1.031	99.2	11.57	1.514	29.16	0
3/8/23 23:15	1.275	107.5	10.88	1.152	29.16	0
3/8/23 23:30	1.35	92.6	11.12	1.523	29.16	0
3/8/23 23:45	2.1	71.08	5.727	0.645	29.16	0
3/9/23 0:00	2.011	53.14	10.24	0.949	29.15	0
3/9/23 0:15	1.475	51.48	14.01	1.125	29.15	0
3/9/23 0:30	2.032	78.33	9.42	1.126	29.15	0
3/9/23 0:45	1.1	81.1	13.86	1.213	29.15	0
3/9/23 1:00	1.148	81.6	4.527	1.701	29.15	0
3/9/23 1:15	1.747	110	15.57	1.013	29.15	0
3/9/23 1:30	2.305	113	6.774	0.775	29.15	0
3/9/23 1:45	1.798	124.2	6.283	1.491	29.14	0
3/9/23 2:00	2.68	168.6	17.29	1.156	29.15	0
3/9/23 2:15	2.414	112.3	22.24	1.288	29.15	0
3/9/23 2:30	1.958	80.7	9.36	0.759	29.14	0
3/9/23 2:45	2.099	88.2	9.09	0.662	29.14	0
3/9/23 3:00	2.052	128.4	23.63	1.498	29.13	0
3/9/23 3:15	1.959	146.6	12.66	1.618	29.13	0
3/9/23 3:30	2.331	154.1	15.22	1.27	29.13	0
3/9/23 3:45	2.864	152.4	24.39	1.413	29.12	0
3/9/23 4:00	3.161	114.2	12.7	1.7	29.12	0
3/9/23 4:15	2.213	141.4	29.52	0.841	29.12	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/9/23 4:30	3.031	136.2	14.36	1.462	29.11	0
3/9/23 4:45	1.928	96.6	26.22	1.542	29.11	0
3/9/23 5:00	1.515	137.3	46.41	1.031	29.11	0
3/9/23 5:15	2.939	167.5	12.17	1.782	29.11	0
3/9/23 5:30	2.432	134.9	15.12	2.1	29.11	0
3/9/23 5:45	1.975	149.9	17.33	2.275	29.11	0
3/9/23 6:00	1.947	166.9	15.87	2.425	29.11	0
3/9/23 6:15	1.796	102	28.14	2.338	29.1	0
3/9/23 6:30	2.704	151.3	16.21	2.235	29.1	0
3/9/23 6:45	2.792	156.1	11.89	2.559	29.1	0
3/9/23 7:00	2.355	154.9	16.82	2.436	29.1	0
3/9/23 7:15	2.611	139.3	12.29	2.593	29.09	0
3/9/23 7:30	2.725	137.8	9.82	2.435	29.09	0
3/9/23 7:45	2.977	128.2	9.8	2.556	29.08	0
3/9/23 8:00	2.707	123.5	10.3	2.769	29.08	0
3/9/23 8:15	1.201	97.6	20.6	2.484	29.07	0
3/9/23 8:30	0.778	78.51	26.01	2.358	29.07	0
3/9/23 8:45	0.703	73.12	37.09	2.371	29.07	0
3/9/23 9:00	1.264	19.58	9.92	1.819	29.06	0
3/9/23 9:15	1.638	10.79	15.27	2.416	29.06	0
3/9/23 9:30	1.397	52.98	33.26	2.843	29.06	0
3/9/23 9:45	2.158	87.9	20.21	4.07	29.06	0
3/9/23 10:00	3.112	114.6	11.52	4.571	29.05	0
3/9/23 10:15	4.758	119.4	13.02	5.122	29.05	0
3/9/23 10:30	4.112	124	11.52	5.532	29.05	0
3/9/23 10:45	2.409	134	24.99	5.639	29.05	0
3/9/23 11:00	3.723	128.1	20.92	6.077	29.04	0
3/9/23 11:15	4.444	123	12.99	6.381	29.03	0
3/9/23 11:30	4.367	114	17.98	6.845	29.02	0
3/9/23 11:45	5.741	106.1	16.9	7.425	29.02	0
3/9/23 12:00	7.363	107.7	13.95	7.743	29	0
3/9/23 12:15	8.02	113.8	17.31	7.957	28.99	0
3/9/23 12:30	6.505	115	16.01	8.16	28.98	0
3/9/23 12:45	8.53	120.5	14.8	8.15	28.97	0
3/9/23 13:00	7.803	116.2	13.57	8.02	28.96	0
3/9/23 13:15	8.43	115.9	15.18	7.783	28.96	0
3/9/23 13:30	8.07	115.6	17.76	7.699	28.95	0
3/9/23 13:45	9.29	116	13.32	7.516	28.95	0
3/9/23 14:00	8.29	119.8	13.68	7.511	28.94	0
3/9/23 14:15	7.595	117	15.81	7.525	28.94	0
3/9/23 14:30	6.954	114.1	13.76	7.366	28.93	0
3/9/23 14:45	7.856	116.8	13.63	7.272	28.92	0
3/9/23 15:00	7.265	111.9	15.71	7.248	28.91	0
3/9/23 15:15	5.691	120.8	14.05	7.266	28.9	0
3/9/23 15:30	6.359	125.5	12.47	7.15	28.89	0
3/9/23 15:45	5.596	115.4	13.89	7.086	28.88	0
3/9/23 16:00	3.545	115.6	15.17	7.072	28.86	0
3/9/23 16:15	4.544	112.3	21.61	7.033	28.86	0
3/9/23 16:30	6.209	124.7	14.76	6.984	28.85	0
3/9/23 16:45	6.319	120	14.6	6.951	28.84	0
3/9/23 17:00	5.241	110.4	15.94	6.825	28.83	0
3/9/23 17:15	6	120.9	13.48	6.808	28.82	0
3/9/23 17:30	7.58	119.3	13.51	6.859	28.81	0
3/9/23 17:45	6.91	114.6	15.25	6.889	28.8	0
3/9/23 18:00	4.301	97.8	14.29	6.857	28.79	0
3/9/23 18:15	4.74	101.2	19.61	6.856	28.78	0
3/9/23 18:30	7.159	91.4	13.91	6.97	28.77	0
3/9/23 18:45	6.704	96.6	17.58	6.972	28.75	0
3/9/23 19:00	6.227	97.2	16.82	7.044	28.75	0
3/9/23 19:15	5.585	100	17.87	7.168	28.73	0
3/9/23 19:30	5.358	103.2	15.62	7.146	28.73	0
3/9/23 19:45	5.043	109.6	22.65	7.109	28.72	0
3/9/23 20:00	4.18	104.6	17.01	7.085	28.7	0
3/9/23 20:15	2.772	109.4	18.9	6.934	28.69	0
3/9/23 20:30	4.243	107.9	17.55	7.235	28.68	0
3/9/23 20:45	4.248	108.2	18.69	7.262	28.67	0
3/9/23 21:00	3.37	94.8	22.47	7.351	28.66	0
3/9/23 21:15	5.382	92.4	20.61	7.399	28.64	0
3/9/23 21:30	10.09	93.2	17.14	7.666	28.63	0
3/9/23 21:45	9.75	102.1	15.95	7.756	28.62	0
3/9/23 22:00	8.21	98.2	15.92	7.791	28.62	0
3/9/23 22:15	6.416	95.5	18.36	7.741	28.6	0
3/9/23 22:30	6.431	93.8	16.8	7.672	28.59	0
3/9/23 22:45	9.32	98.2	18.46	7.726	28.57	0
3/9/23 23:00	8.6	91.6	20.25	7.734	28.56	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/9/23 23:15	9.49	87.2	17.65	7.725	28.55	0
3/9/23 23:30	8.62	88.5	16.16	7.637	28.54	0
3/9/23 23:45	7.829	93.7	19.08	7.61	28.54	0
3/10/23 0:00	7.423	96.6	14.15	7.59	28.53	0
3/10/23 0:15	6.24	98.5	15.36	7.509	28.53	0
3/10/23 0:30	5.737	98.4	19.75	7.477	28.53	0
3/10/23 0:45	3.396	101.2	19.09	7.384	28.52	0
3/10/23 1:00	3.019	103.4	21.66	7.34	28.52	0
3/10/23 1:15	3.076	94	19.96	7.246	28.51	0
3/10/23 1:30	3.954	97.1	21.4	7.253	28.51	0
3/10/23 1:45	3.827	88.9	16.59	7.143	28.51	0
3/10/23 2:00	2.519	125.3	22.84	6.983	28.51	0
3/10/23 2:15	2.844	138.3	27.52	6.868	28.51	0
3/10/23 2:30	4.208	134.7	16.66	6.686	28.5	0
3/10/23 2:45	3.868	128.9	18.11	6.326	28.5	0
3/10/23 3:00	3.207	102	20.17	6.159	28.5	0
3/10/23 3:15	3.797	121.8	22.02	6.056	28.5	0
3/10/23 3:30	3.316	91	16.72	5.627	28.5	0
3/10/23 3:45	3.3	94.6	18.15	5.724	28.5	0
3/10/23 4:00	3.509	123.8	25.8	5.852	28.5	0
3/10/23 4:15	4.859	143.8	10.23	5.739	28.5	0
3/10/23 4:30	5.378	129.4	13.5	5.831	28.51	0
3/10/23 4:45	4.258	119.9	12.13	5.784	28.51	0
3/10/23 5:00	3.354	106.3	19.22	5.645	28.52	0
3/10/23 5:15	2.42	78.66	37.24	4.986	28.52	0
3/10/23 5:30	1.698	40.44	14.68	4.112	28.52	0
3/10/23 5:45	2.326	27.8	7.539	3.749	28.53	0
3/10/23 6:00	1.635	27.31	11.2	3.596	28.53	0
3/10/23 6:15	1.524	23.14	8.66	3.441	28.54	0
3/10/23 6:30	1.351	107.7	51.06	3.682	28.54	0
3/10/23 6:45	2.546	186.9	10.36	3.969	28.55	0
3/10/23 7:00	2.187	190	9.97	4.03	28.55	0
3/10/23 7:15	1.726	199.8	8.41	3.975	28.56	0
3/10/23 7:30	1.653	174.2	13.04	3.944	28.56	0
3/10/23 7:45	2.312	181	10.19	4.153	28.57	0
3/10/23 8:00	2.568	173.1	8.63	4.252	28.57	0
3/10/23 8:15	2.382	171.7	31.1	4.207	28.58	0
3/10/23 8:30	4.453	214.8	11.58	3.966	28.59	0
3/10/23 8:45	5.574	218.3	10.62	3.826	28.59	0
3/10/23 9:00	4.996	212.9	9.03	3.796	28.6	0
3/10/23 9:15	3.815	197.1	12.32	3.959	28.6	0
3/10/23 9:30	3.588	190.7	11.08	4.097	28.61	0
3/10/23 9:45	4.071	185.8	8.87	4.223	28.62	0
3/10/23 10:00	4.208	199.5	10.38	4.187	28.62	0
3/10/23 10:15	3.715	202.4	11.94	4.57	28.63	0
3/10/23 10:30	4.874	210.5	12.06	4.695	28.64	0
3/10/23 10:45	4.525	224.7	9.46	4.738	28.64	0
3/10/23 11:00	4.526	217.8	11.26	5.002	28.65	0
3/10/23 11:15	3.972	200.8	13.75	5.256	28.65	0
3/10/23 11:30	5.021	193.2	16.75	5.793	28.65	0
3/10/23 11:45	3.954	215.6	12.71	5.971	28.66	0
3/10/23 12:00	4.988	205.5	15.05	6.125	28.67	0
3/10/23 12:15	5.491	220	12.66	6.43	28.68	0
3/10/23 12:30	5.063	254.4	16.78	6.392	28.69	0
3/10/23 12:45	5.533	245.3	9.96	6.491	28.7	0
3/10/23 13:00	4.428	228	17.52	6.798	28.7	0
3/10/23 13:15	5.856	223.4	18.85	7.663	28.71	0
3/10/23 13:30	5.003	239.8	16.32	7.627	28.71	0
3/10/23 13:45	5.503	242.9	18.48	7.564	28.72	0
3/10/23 14:00	5.395	245	11.54	7.523	28.73	0
3/10/23 14:15	5.242	242.6	11.32	7.398	28.73	0
3/10/23 14:30	6.552	251.4	14.82	7.675	28.74	0
3/10/23 14:45	6.773	236.5	9.88	7.757	28.75	0
3/10/23 15:00	6.101	233	14.29	7.631	28.76	0
3/10/23 15:15	6.092	221.7	8.35	7.404	28.77	0
3/10/23 15:30	5.198	199	9	7.076	28.78	0
3/10/23 15:45	6.595	208.4	10.09	6.967	28.78	0
3/10/23 16:00	7.512	212	10.96	6.838	28.79	0
3/10/23 16:15	5.972	200.4	10.9	6.636	28.8	0
3/10/23 16:30	4.982	203	9.02	6.445	28.81	0
3/10/23 16:45	3.843	188.5	9.1	6.385	28.81	0
3/10/23 17:00	3.479	185.1	10.84	6.408	28.82	0
3/10/23 17:15	2.999	179	12.18	6.433	28.83	0
3/10/23 17:30	3.31	187.5	8.83	6.39	28.83	0
3/10/23 17:45	2.769	179.3	10.36	6.328	28.84	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/10/23 18:00	4.545	239.5	13.41	5.995	28.85	0
3/10/23 18:15	4.208	252.2	12.29	5.374	28.86	0
3/10/23 18:30	3.971	202.8	33	4.69	28.87	0.01
3/10/23 18:45	2.26	151	18.81	4.141	28.88	0
3/10/23 19:00	1.079	78.84	20.23	3.906	28.88	0
3/10/23 19:15	1.98	117.2	9.92	3.823	28.89	0
3/10/23 19:30	1.89	156.8	36.74	4.004	28.9	0
3/10/23 19:45	1.924	277.5	15.04	4.148	28.9	0
3/10/23 20:00	1.15	52.55	63.84	4.009	28.91	0
3/10/23 20:15	1.17	150	23.95	3.699	28.92	0
3/10/23 20:30	1.46	134.2	20.75	3.839	28.92	0
3/10/23 20:45	1.231	152.1	18.01	3.983	28.93	0
3/10/23 21:00	0.999	146.8	18.66	4.081	28.93	0
3/10/23 21:15	1.072	197.4	21.51	4.139	28.94	0.01
3/10/23 21:30	1.034	173.4	30.72	4.049	28.94	0.01
3/10/23 21:45	1.851	150.5	19.58	3.949	28.95	0.01
3/10/23 22:00	4.46	186.6	11.62	4.01	28.95	0.02
3/10/23 22:15	5.289	175.4	13.03	3.54	28.96	0.03
3/10/23 22:30	3.842	155.9	11.07	3.439	28.97	0
3/10/23 22:45	3.893	143.7	6.166	3.34	28.97	0
3/10/23 23:00	3.701	142.6	7.384	3.31	28.98	0
3/10/23 23:15	3.639	144.8	7.697	3.315	28.99	0
3/10/23 23:30	3.889	142.5	6.591	3.375	29	0
3/10/23 23:45	3.595	135.2	8.65	3.324	29	0
3/11/23 0:00	3.225	135.2	8.62	3.364	29.01	0
3/11/23 0:15	2.932	138	9.01	3.384	29.01	0
3/11/23 0:30	3.188	145	7.205	3.443	29.02	0
3/11/23 0:45	2.919	144.7	9.04	3.546	29.02	0
3/11/23 1:00	2.771	140.5	11.42	3.663	29.03	0
3/11/23 1:15	2.602	135.8	10.43	3.703	29.03	0
3/11/23 1:30	2.52	134.9	9.3	3.689	29.04	0
3/11/23 1:45	2.181	128.3	9.99	3.554	29.04	0
3/11/23 2:00	2.605	133.4	9.54	3.45	29.05	0
3/11/23 2:15	2.319	125.2	8.78	3.431	29.05	0
3/11/23 2:30	2.621	131.3	7.563	3.68	29.05	0
3/11/23 2:45	2.823	138.6	7.614	3.771	29.05	0
3/11/23 3:00	3.161	172.9	33.4	3.775	29.05	0.01
3/11/23 3:15	5.996	220.6	19.6	3.376	29.06	0.02
3/11/23 3:30	6.339	213.3	9.89	2.925	29.06	0.01
3/11/23 3:45	2.567	159.7	28.26	2.86	29.06	0
3/11/23 4:00	1.449	113.8	7.282	2.462	29.07	0
3/11/23 4:15	2.1	110.9	8.15	2.277	29.07	0
3/11/23 4:30	3.163	118.3	7.842	2.47	29.06	0
3/11/23 4:45	3.555	118.8	7.687	2.784	29.07	0
3/11/23 5:00	3.673	115.1	8.31	2.794	29.07	0
3/11/23 5:15	3.19	122.6	7.73	2.892	29.07	0
3/11/23 5:30	2.376	117.7	7.822	2.933	29.07	0
3/11/23 5:45	2.43	122.4	8.16	3.134	29.07	0
3/11/23 6:00	2.483	122.2	7.202	3.448	29.07	0
3/11/23 6:15	2.544	120.8	10.73	3.676	29.07	0
3/11/23 6:30	2.492	129	12.61	3.92	29.08	0
3/11/23 6:45	2.474	134.8	9.4	3.842	29.08	0
3/11/23 7:00	2.687	128.6	7.725	3.778	29.08	0
3/11/23 7:15	2.448	141.5	14.82	3.854	29.08	0
3/11/23 7:30	2.641	157.5	18.87	3.878	29.09	0
3/11/23 7:45	2.611	137.7	7.755	3.85	29.09	0
3/11/23 8:00	1.624	124.2	11.98	3.925	29.09	0.01
3/11/23 8:15	0.854	93.5	12.35	4.068	29.1	0
3/11/23 8:30	1.507	98.7	14.38	4.092	29.1	0
3/11/23 8:45	1.657	107.9	11.33	4.117	29.1	0
3/11/23 9:00	1.801	141.8	14.45	4.569	29.1	0
3/11/23 9:15	2.733	147.7	17.87	4.607	29.11	0
3/11/23 9:30	2.638	135	13.18	4.978	29.11	0
3/11/23 9:45	2.308	131.6	11.19	5.246	29.11	0
3/11/23 10:00	2.734	136.7	10.74	5.352	29.11	0
3/11/23 10:15	2.655	134.1	13.51	5.77	29.11	0
3/11/23 10:30	2.584	127	16.2	6.047	29.11	0
3/11/23 10:45	2.433	142.3	16.85	6.324	29.11	0
3/11/23 11:00	1.425	167	35.46	6.988	29.11	0
3/11/23 11:15	2.436	151.7	23.29	7.177	29.11	0
3/11/23 11:30	2.501	169.2	23.56	7.292	29.11	0
3/11/23 11:45	2.463	135.3	24	7.159	29.11	0
3/11/23 12:00	2.089	150.6	30.84	7.236	29.11	0
3/11/23 12:15	1.111	148.1	37.11	7.382	29.11	0
3/11/23 12:30	1.589	137.4	65.95	7.441	29.11	0

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/11/23 12:45	1.719	72.64	23.89	7.866	29.11	0
3/11/23 13:00	1.899	57.32	20.84	7.826	29.11	0
3/11/23 13:15	1.863	156.1	47.89	8.45	29.11	0
3/11/23 13:30	1.948	192.1	41.2	8.78	29.1	0
3/11/23 13:45	1.477	132.3	48.38	8.91	29.1	0
3/11/23 14:00	2.68	104	18.45	8.62	29.1	0
3/11/23 14:15	3.129	103.4	19.72	8.14	29.1	0
3/11/23 14:30	2.948	95.9	12.69	7.938	29.1	0
3/11/23 14:45	2.441	106.7	10.39	8.07	29.1	0
3/11/23 15:00	1.962	92.4	13.26	8.56	29.1	0
3/11/23 15:15	2.02	112.7	18.03	8.39	29.1	0
3/11/23 15:30	1.771	110.6	15.82	8.42	29.1	0
3/11/23 15:45	2.142	103.4	15.09	8.46	29.1	0
3/11/23 16:00	2.118	102.2	15.83	8.3	29.09	0
3/11/23 16:15	1.395	101.2	17.91	8.29	29.09	0
3/11/23 16:30	1.193	73.02	17.23	8.3	29.09	0
3/11/23 16:45	0.477	40.55	15.5	8.27	29.09	0
3/11/23 17:00	0.504	14.2	17.92	8.4	29.09	0
3/11/23 17:15	0.578	334.9	14.94	8.4	29.09	0
3/11/23 17:30	0.357	44.53	45.34	8.23	29.09	0
3/11/23 17:45	0.989	42.45	37.09	7.899	29.09	0
3/11/23 18:00	1.305	345	19.14	7.563	29.1	0
3/11/23 18:15	0.96	4.591	41.05	7.133	29.1	0
3/11/23 18:30	1.325	295.5	69.03	6.676	29.1	0
3/11/23 18:45	1.673	259.9	16.23	6.389	29.1	0
3/11/23 19:00	0.768	296.7	29.39	6.328	29.1	0
3/11/23 19:15	0.945	308.4	15.09	6.153	29.11	0
3/11/23 19:30	0.899	326.9	20.14	5.862	29.11	0
3/11/23 19:45	1.352	295.8	10.23	5.527	29.11	0
3/11/23 20:00	1.172	287.1	6.402	5.582	29.11	0
3/11/23 20:15	0.935	342.4	34.12	5.364	29.11	0
3/11/23 20:30	1.299	46.63	7.828	4.132	29.11	0
3/11/23 20:45	0.679	51.02	14.41	4.12	29.11	0
3/11/23 21:00	0.397	67.33	55.86	4.636	29.11	0
3/11/23 21:15	1.265	214.9	8.15	4.939	29.11	0
3/11/23 21:30	1.11	164.4	14.33	4.889	29.11	0
3/11/23 21:45	0.331	102	17.34	4.481	29.11	0
3/11/23 22:00	0.813	282.9	32.4	3.533	29.11	0
3/11/23 22:15	1.576	240.6	17.04	3.504	29.11	0
3/11/23 22:30	1.96	196.1	8.51	3.322	29.11	0
3/11/23 22:45	1.962	154.3	21.98	3.022	29.11	0
3/11/23 23:00	1.21	127	15.03	2.967	29.11	0
3/11/23 23:15	1.538	122.4	15.44	3.214	29.11	0
3/11/23 23:30	2.613	152.6	7.719	3.539	29.11	0
3/11/23 23:45	1.885	172.2	7.249	3.437	29.1	0
3/12/23 0:00	1.561	176.1	14.36	3.381	29.1	0
3/12/23 0:15	1.374	170	14.22	3.049	29.1	0
3/12/23 0:30	1.34	145.6	9.38	3.309	29.1	0
3/12/23 0:45	0.39	49.62	28.9	2.674	29.1	0
3/12/23 1:00	0.914	52.67	15.67	2.883	29.1	0
3/12/23 1:15	1.632	52.59	18.86	3.518	29.1	0
3/12/23 1:30	1.065	39.77	19.91	3.502	29.1	0
3/12/23 1:45	0.903	40.13	21.69	3.542	29.09	0
3/12/23 2:00	0.921	71.26	61.72	3.173	29.09	0
3/12/23 2:15	1.48	154.1	22.88	2.638	29.09	0
3/12/23 2:30	1.61	155.9	16.58	2.837	29.09	0
3/12/23 2:45	0.876	114.5	27.32	2.623	29.08	0
3/12/23 3:00	1.418	124.5	25.91	3.142	29.08	0
3/12/23 3:15	1.41	124.8	18.56	3.251	29.07	0
3/12/23 3:30	1.35	96	23.16	3.635	29.07	0
3/12/23 3:45	2.042	80	11.72	3.847	29.06	0
3/12/23 4:00	2.541	92.9	8.1	4.007	29.06	0
3/12/23 4:15	2.606	93.9	9.35	4.313	29.06	0
3/12/23 4:30	2.662	96.1	7.258	3.966	29.05	0
3/12/23 4:45	2.589	96.1	8.63	3.771	29.05	0
3/12/23 5:00	2.748	97.4	8.56	4.108	29.04	0
3/12/23 5:15	2.992	111.2	9	4.482	29.04	0
3/12/23 5:30	3.126	108.3	10.77	4.636	29.04	0
3/12/23 5:45	2.639	111	13.26	4.384	29.03	0
3/12/23 6:00	2.864	101.9	11.01	4.423	29.02	0
3/12/23 6:15	2.505	117.9	14.52	4.487	29.02	0
3/12/23 6:30	2.604	106.1	9.19	4.812	29.02	0
3/12/23 6:45	2.405	92.6	12.55	4.93	29.02	0
3/12/23 7:00	2.226	96.9	12.75	5.008	29.01	0
3/12/23 7:15	2.283	112.2	12.2	5.368	29.01	0

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/12/23 7:30	2.583	114.4	13.21	5.513	29.01	0
3/12/23 7:45	3.06	115.8	13.92	5.79	29	0
3/12/23 8:00	3.038	102.2	11.92	6.136	29	0
3/12/23 8:15	3.018	106.4	12.38	6.733	28.99	0
3/12/23 8:30	3.949	107.7	13.42	7.338	28.99	0
3/12/23 8:45	3.296	108.7	14.04	7.717	28.99	0
3/12/23 9:00	3.501	115.1	12.78	8.04	28.98	0
3/12/23 9:15	4.791	129.8	17.09	8.31	28.98	0
3/12/23 9:30	5.445	125.9	12.54	8.83	28.98	0
3/12/23 9:45	5.757	135.1	11.13	8.83	28.98	0
3/12/23 10:00	4.207	115.7	18.65	9.14	28.98	0
3/12/23 10:15	4.653	121.7	15.46	9.37	28.98	0
3/12/23 10:30	3.329	122.7	12.56	9.73	28.98	0
3/12/23 10:45	4.341	137.2	12.64	10.16	28.97	0
3/12/23 11:00	6.783	135.8	12.3	10.12	28.96	0
3/12/23 11:15	7.462	133.5	12.86	10.09	28.96	0
3/12/23 11:30	7.971	130.1	10.96	9.36	28.97	0
3/12/23 11:45	7.889	138.9	10.54	8.47	28.97	0
3/12/23 12:00	4.509	141.9	13.15	8.18	28.96	0
3/12/23 12:15	4.203	142	14.41	8.36	28.96	0
3/12/23 12:30	5.13	141.7	14.87	8.32	28.95	0
3/12/23 12:45	5.77	131.9	13.17	8.15	28.95	0
3/12/23 13:00	5.628	135.3	9.84	7.925	28.94	0
3/12/23 13:15	6.178	124.1	12.22	7.949	28.94	0
3/12/23 13:30	6.336	127.2	12.84	8.05	28.93	0
3/12/23 13:45	6.259	124.3	11.31	7.876	28.92	0
3/12/23 14:00	6.739	127.3	11.23	7.406	28.92	0.01
3/12/23 14:15	6.166	129.4	10.37	7.055	28.91	0.01
3/12/23 14:30	6.434	127.6	11.58	7.344	28.91	0
3/12/23 14:45	5.679	136.2	9.69	7.575	28.9	0
3/12/23 15:00	6.418	132.9	10.62	7.532	28.9	0
3/12/23 15:15	6.008	133.7	10.53	7.14	28.9	0.01
3/12/23 15:30	5.714	129.9	11.09	6.608	28.9	0.02
3/12/23 15:45	5.446	134.7	9.78	6.613	28.9	0
3/12/23 16:00	5.948	130.9	11.01	6.924	28.89	0
3/12/23 16:15	6.493	125	9.3	6.871	28.88	0
3/12/23 16:30	6.512	125.5	10.13	6.944	28.88	0.01
3/12/23 16:45	6.826	128.7	10.37	7.161	28.87	0
3/12/23 17:00	6.657	130.1	10.8	7.278	28.87	0
3/12/23 17:15	6.701	129	10.54	7.269	28.87	0
3/12/23 17:30	7.097	131	10.51	7.414	28.86	0
3/12/23 17:45	6.923	130.9	10.57	7.517	28.86	0
3/12/23 18:00	6.935	128.6	8.66	7.158	28.87	0.03
3/12/23 18:15	5.831	130.2	9.54	6.765	28.87	0.04
3/12/23 18:30	5.704	126.3	9.17	6.725	28.87	0.02
3/12/23 18:45	5.911	126.9	9.5	6.87	28.87	0.02
3/12/23 19:00	6.198	125.3	10.36	6.686	28.87	0.01
3/12/23 19:15	6.395	124.1	10.04	6.645	28.87	0.01
3/12/23 19:30	6.387	130.6	9.07	6.899	28.87	0.01
3/12/23 19:45	5.872	127	10.66	6.943	28.87	0
3/12/23 20:00	6.003	126.1	11.4	6.961	28.86	0.01
3/12/23 20:15	6.057	123.7	10.82	6.854	28.86	0.01
3/12/23 20:30	6.441	127.1	9.71	7.148	28.86	0
3/12/23 20:45	6.657	128.4	10.21	7.244	28.86	0.01
3/12/23 21:00	6.836	129.4	9.92	6.882	28.86	0.01
3/12/23 21:15	7.385	126.4	9.93	6.85	28.86	0
3/12/23 21:30	6.783	122.1	9.54	6.852	28.86	0.01
3/12/23 21:45	5.308	130.2	10.25	6.837	28.86	0.01
3/12/23 22:00	6.343	129.1	10.71	6.927	28.86	0.01
3/12/23 22:15	5.332	129.6	9.69	7.059	28.86	0.02
3/12/23 22:30	4.554	133.7	10.92	6.832	28.86	0
3/12/23 22:45	5.051	131.2	11.28	6.829	28.85	0.01
3/12/23 23:00	5.334	126.4	9.3	7.083	28.84	0
3/12/23 23:15	5.853	129.6	8.47	7.359	28.83	0
3/12/23 23:30	5.868	131.7	8.35	7.557	28.83	0
3/12/23 23:45	6.162	129.9	8.69	7.437	28.83	0
3/13/23 0:00	5.774	130.3	8.35	7.412	28.82	0.02
3/13/23 0:15	4.693	135.5	9.5	7.363	28.82	0.02
3/13/23 0:30	4.954	131.5	9.44	7.412	28.82	0.01
3/13/23 0:45	5.301	136.1	10.58	7.159	28.82	0.02
3/13/23 1:00	6.048	128	9.27	7.222	28.82	0
3/13/23 1:15	5.284	131	9.86	7.539	28.82	0.01
3/13/23 1:30	4.697	146	9.97	7.337	28.82	0.01
3/13/23 1:45	5	138.2	9.83	7.257	28.82	0.02
3/13/23 2:00	5.16	133.6	10.38	7.035	28.82	0.01

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/13/23 2:15	5.062	127.3	7.78	7.165	28.81	0.01
3/13/23 2:30	4.726	127.9	7.738	7.234	28.81	0.01
3/13/23 2:45	4.322	136.6	11.32	7.086	28.81	0.02
3/13/23 3:00	4.144	135.1	12.92	6.883	28.81	0.03
3/13/23 3:15	4.316	132.9	9.94	6.851	28.8	0.01
3/13/23 3:30	4.184	144.7	17.22	6.872	28.8	0.02
3/13/23 3:45	4.166	150.4	19.31	6.83	28.8	0.02
3/13/23 4:00	6.861	252.3	10.83	6.279	28.81	0.02
3/13/23 4:15	5.072	246.9	7.799	6.01	28.83	0.02
3/13/23 4:30	4.41	236.2	13.94	5.785	28.83	0.03
3/13/23 4:45	4.341	227.2	17.41	5.59	28.83	0
3/13/23 5:00	2.696	209.1	19.65	5.43	28.83	0.01
3/13/23 5:15	2.645	162.8	15.52	5.237	28.84	0
3/13/23 5:30	2.959	149.5	10.71	5.007	28.84	0.01
3/13/23 5:45	4.071	158.5	9.32	4.911	28.84	0
3/13/23 6:00	4.726	164.1	7.706	4.804	28.85	0.02
3/13/23 6:15	5.172	161.4	9.34	4.649	28.86	0.02
3/13/23 6:30	5.616	161.1	11.31	4.519	28.87	0.03
3/13/23 6:45	4.862	178.4	10.2	4.369	28.87	0.05
3/13/23 7:00	5.309	166.2	10.87	4.121	28.88	0.04
3/13/23 7:15	5.282	160.2	11.69	3.622	28.87	0.05
3/13/23 7:30	5.026	169	11.42	3.417	28.88	0.03
3/13/23 7:45	3.387	142.7	14.65	3.305	28.89	0.02
3/13/23 8:00	3.273	129.1	9.06	3.183	28.88	0.02
3/13/23 8:15	3.042	119.3	9.64	3.168	28.88	0.01
3/13/23 8:30	3.436	142.8	10.49	3.267	28.88	0
3/13/23 8:45	3.53	139.4	9.78	3.246	28.87	0.01
3/13/23 9:00	2.527	140.6	12.42	3.295	28.87	0
3/13/23 9:15	3.063	145.9	11.32	3.275	28.87	0
3/13/23 9:30	3.027	151.1	9.82	3.29	28.87	0.01
3/13/23 9:45	3.402	154	7.831	3.181	28.88	0.01
3/13/23 10:00	3.289	145.9	8.4	3.133	28.89	0.02
3/13/23 10:15	2.742	136.1	9.34	3.184	28.89	0.02
3/13/23 10:30	2.706	115.3	11.7	3.246	28.89	0.02
3/13/23 10:45	2.882	115.1	9.13	3.331	28.9	0.01
3/13/23 11:00	3.197	119.3	9.7	3.369	28.89	0.01
3/13/23 11:15	2.815	108.3	10.35	3.465	28.89	0.02
3/13/23 11:30	2.437	116.7	11.85	3.36	28.89	0.01
3/13/23 11:45	2.436	125.5	11.89	3.356	28.9	0.01
3/13/23 12:00	2.975	138.2	8.28	3.423	28.91	0.01
3/13/23 12:15	2.451	121	15	3.428	28.91	0.01
3/13/23 12:30	3.609	146.3	10.73	3.451	28.91	0
3/13/23 12:45	3.661	145	9.81	3.533	28.91	0.01
3/13/23 13:00	3.404	127.3	8.93	3.249	28.91	0.01
3/13/23 13:15	3.15	136.3	9.56	3.206	28.91	0.01
3/13/23 13:30	3.157	142.3	14.01	3.25	28.91	0
3/13/23 13:45	3.544	145.1	12.13	3.361	28.91	0.01
3/13/23 14:00	3.654	147.5	8.64	3.52	28.92	0
3/13/23 14:15	3.23	139.7	9.16	3.569	28.92	0
3/13/23 14:30	3.095	145.7	8.91	3.703	28.92	0.01
3/13/23 14:45	2.51	150.8	10.6	3.865	28.92	0
3/13/23 15:00	2.324	153.8	9.18	3.901	28.92	0
3/13/23 15:15	2.655	185.4	15.8	4.12	28.92	0.04
3/13/23 15:30	4.454	200.5	16.12	4.35	28.91	0.02
3/13/23 15:45	4.664	188	10.32	4.528	28.92	0
3/13/23 16:00	3.843	184.5	11.36	4.646	28.92	0
3/13/23 16:15	3.556	173.6	16.98	4.499	28.92	0
3/13/23 16:30	3.017	153.3	13.16	4.405	28.93	0
3/13/23 16:45	3.601	159.9	20.86	4.43	28.93	0
3/13/23 17:00	4.651	149.6	16.62	4.342	28.93	0
3/13/23 17:15	4.596	166.4	18.59	4.507	28.93	0
3/13/23 17:30	3.884	177.3	18.99	4.621	28.93	0
3/13/23 17:45	4.643	160.5	8.06	4.372	28.93	0
3/13/23 18:00	3.252	154.5	8.68	3.925	28.94	0
3/13/23 18:15	3.545	154.6	8.61	3.71	28.94	0
3/13/23 18:30	4.095	163.4	5.48	3.691	28.95	0
3/13/23 18:45	4.295	164.4	5.69	3.732	28.95	0
3/13/23 19:00	4.181	169.7	8.11	3.614	28.95	0
3/13/23 19:15	3.262	189.6	9.41	3.678	28.96	0
3/13/23 19:30	2.923	194.3	7.652	3.797	28.97	0
3/13/23 19:45	3.089	195.9	9.47	3.863	28.98	0
3/13/23 20:00	4.289	206.7	7.679	3.628	28.98	0
3/13/23 20:15	4.398	198.3	8.87	3.464	28.98	0
3/13/23 20:30	5.109	189.7	7.202	3.279	28.99	0
3/13/23 20:45	4.462	182.9	8.02	2.984	29	0

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/13/23 21:00	3.463	169	13.94	2.87	29.01	0
3/13/23 21:15	2.768	163	12.69	2.895	29.02	0
3/13/23 21:30	3.15	161.5	10.59	2.834	29.03	0
3/13/23 21:45	3.209	154.9	7.669	2.691	29.03	0
3/13/23 22:00	2.94	144.1	10.26	2.556	29.04	0
3/13/23 22:15	3.115	150.8	8.34	2.357	29.04	0
3/13/23 22:30	3.051	144	7.761	2.239	29.04	0
3/13/23 22:45	2.895	140.6	9.58	2.412	29.04	0
3/13/23 23:00	3.274	149.1	10.87	2.53	29.05	0
3/13/23 23:15	3.391	162	11.09	2.626	29.06	0
3/13/23 23:30	3.161	173.4	10.26	2.748	29.06	0
3/13/23 23:45	3.36	190.7	10.47	2.656	29.07	0
3/14/23 0:00	2.849	161.3	15.72	2.55	29.07	0
3/14/23 0:15	3.011	164.6	9.54	2.659	29.07	0
3/14/23 0:30	3.873	168	10.39	2.813	29.08	0
3/14/23 0:45	4.413	181.9	8.57	2.792	29.08	0
3/14/23 1:00	4.894	187.2	7.763	2.709	29.08	0
3/14/23 1:15	3.489	178.2	11.4	2.524	29.09	0
3/14/23 1:30	2.275	137.1	16.3	2.222	29.09	0
3/14/23 1:45	2.27	124.5	13.32	2.156	29.09	0
3/14/23 2:00	3.497	150.9	16.34	2.389	29.09	0
3/14/23 2:15	3.517	149.9	14.97	2.705	29.09	0
3/14/23 2:30	2.866	141.6	14.17	2.527	29.09	0
3/14/23 2:45	2.574	132.7	9.76	2.368	29.09	0
3/14/23 3:00	2.724	116	7.723	2.348	29.08	0
3/14/23 3:15	2.566	116.9	9.75	2.588	29.08	0
3/14/23 3:30	2.574	132.5	9.54	2.663	29.08	0
3/14/23 3:45	2.438	146.3	7.299	2.684	29.08	0
3/14/23 4:00	2.521	144.2	7.858	2.763	29.08	0
3/14/23 4:15	2.517	137	6.619	2.652	29.08	0
3/14/23 4:30	2.507	143.9	6.188	2.459	29.08	0
3/14/23 4:45	2.594	135.7	7.34	2.415	29.07	0
3/14/23 5:00	2.612	133.5	7.379	2.572	29.07	0
3/14/23 5:15	1.979	157.3	11.12	2.358	29.07	0
3/14/23 5:30	2.269	164.7	8.73	2.364	29.07	0
3/14/23 5:45	2.238	164.8	12.28	2.338	29.07	0
3/14/23 6:00	2.142	158.8	9.19	2.172	29.06	0
3/14/23 6:15	1.961	138.2	6.434	2.236	29.06	0
3/14/23 6:30	2.067	138.6	4.53	2.359	29.06	0
3/14/23 6:45	2.137	141.7	5.478	2.348	29.06	0
3/14/23 7:00	2.287	135.5	6.369	2.499	29.05	0
3/14/23 7:15	2.255	160.3	10.35	2.266	29.05	0
3/14/23 7:30	2.673	152.9	10.04	2.342	29.05	0
3/14/23 7:45	2.727	129.3	9.31	2.667	29.05	0
3/14/23 8:00	2.819	133.4	12.23	3.551	29.05	0
3/14/23 8:15	2.614	146	10.32	4.004	29.05	0
3/14/23 8:30	2.891	131.9	12.93	4.618	29.04	0
3/14/23 8:45	2.501	122.4	12.59	5.096	29.04	0
3/14/23 9:00	2.953	138.9	17.79	5.596	29.03	0
3/14/23 9:15	2.76	123.7	15.13	6.024	29.03	0
3/14/23 9:30	2.19	134.7	18.94	6.392	29.02	0
3/14/23 9:45	2.144	131.1	25.11	6.597	29.01	0
3/14/23 10:00	1.971	183.3	47.72	6.832	29.01	0
3/14/23 10:15	1.752	133.5	46.43	7.04	29	0
3/14/23 10:30	1.775	120.1	66.17	7.045	29	0
3/14/23 10:45	1.09	17.28	35.98	7.101	28.99	0
3/14/23 11:00	1.503	36.9	33.34	7.567	28.99	0
3/14/23 11:15	1.035	57.57	61.07	8.03	28.98	0
3/14/23 11:30	1.802	280.3	67.36	8.33	28.97	0
3/14/23 11:45	1.983	330.1	47.18	8.29	28.97	0
3/14/23 12:00	1.081	314	35.04	8.56	28.96	0
3/14/23 12:15	1.614	166.4	63.32	9.01	28.95	0
3/14/23 12:30	1.69	280	44.47	8.68	28.95	0
3/14/23 12:45	2.375	351.7	60.8	8.88	28.94	0
3/14/23 13:00	1.835	340.3	51.14	9.02	28.93	0
3/14/23 13:15	1.111	291.1	47.2	9.5	28.92	0
3/14/23 13:30	1.738	254	41.36	9.63	28.91	0
3/14/23 13:45	2.238	214.1	24.44	9.83	28.9	0
3/14/23 14:00	1.76	233.3	25.81	9.97	28.9	0
3/14/23 14:15	2.424	264	36.93	10.01	28.89	0
3/14/23 14:30	1.622	325.5	46.58	10.14	28.88	0
3/14/23 14:45	2.345	260.1	41.78	10.51	28.87	0
3/14/23 15:00	2.309	272.2	21.93	10.1	28.87	0
3/14/23 15:15	3.214	293.1	28.97	10.07	28.86	0
3/14/23 15:30	4.86	300.9	11.7	9.89	28.86	0

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/14/23 15:45	4.698	291.4	9.93	9.58	28.85	0
3/14/23 16:00	4.681	300.1	11.33	9.3	28.85	0
3/14/23 16:15	4.328	294.8	9.95	9.15	28.85	0
3/14/23 16:30	4.674	290.5	10.24	9.05	28.84	0
3/14/23 16:45	5.135	300.3	10.62	8.79	28.84	0
3/14/23 17:00	5.096	307.7	5.648	8.66	28.84	0
3/14/23 17:15	4.483	302.9	8.58	8.49	28.84	0
3/14/23 17:30	3.939	311.5	8.3	8.21	28.85	0
3/14/23 17:45	3.121	316.8	7.753	7.699	28.85	0
3/14/23 18:00	3.654	303.5	5.718	7.412	28.85	0
3/14/23 18:15	3.236	302.4	4.57	6.985	28.86	0
3/14/23 18:30	2.348	305.2	5.659	6.775	28.86	0
3/14/23 18:45	1.836	314.5	13.14	6.882	28.86	0
3/14/23 19:00	1.221	32.69	36.68	6.673	28.87	0
3/14/23 19:15	0.343	71.38	12.79	6.288	28.87	0
3/14/23 19:30	0.993	104.9	8.02	6.434	28.88	0
3/14/23 19:45	0.538	112.8	7.325	6.288	28.88	0
3/14/23 20:00	0.68	155.5	16.93	6.503	28.89	0
3/14/23 20:15	1.042	202.4	19.57	6.75	28.89	0
3/14/23 20:30	1.751	210.6	13.07	6.066	28.9	0
3/14/23 20:45	2.162	204	6.603	5.635	28.91	0
3/14/23 21:00	1.758	190.3	13.62	5.518	28.92	0
3/14/23 21:15	1.05	139.9	23.54	5.278	28.93	0
3/14/23 21:30	1.08	159.9	27.75	4.937	28.94	0
3/14/23 21:45	1.924	199.5	7.854	5.23	28.95	0
3/14/23 22:00	1.814	197.5	7.309	5.183	28.96	0
3/14/23 22:15	1.821	204.7	12.37	5.178	28.96	0
3/14/23 22:30	1.692	208.8	9.96	5.179	28.97	0
3/14/23 22:45	1.909	189.2	12.91	4.972	28.97	0
3/14/23 23:00	1.203	174.2	24.81	4.771	28.98	0
3/14/23 23:15	1.051	130	10.73	4.735	28.98	0
3/14/23 23:30	1.808	173.1	11.53	4.493	28.99	0
3/14/23 23:45	2.914	176.1	8.25	4.214	29	0
3/15/23 0:00	3.602	165.7	6.951	3.806	29	0
3/15/23 0:15	3.733	170.9	8.12	3.323	29.01	0
3/15/23 0:30	2.946	175.7	10.27	3.241	29.02	0
3/15/23 0:45	3.261	180.3	10.1	3.276	29.03	0
3/15/23 1:00	3.533	179.9	9.07	3.296	29.05	0
3/15/23 1:15	3.369	174.9	9.24	3.316	29.06	0
3/15/23 1:30	3.324	177.2	8.72	3.503	29.06	0
3/15/23 1:45	3.39	163	7.5	3.463	29.07	0
3/15/23 2:00	3.462	161.5	7.194	3.497	29.08	0
3/15/23 2:15	3.226	169.9	9.73	3.518	29.08	0
3/15/23 2:30	2.994	169.8	11.12	3.531	29.08	0
3/15/23 2:45	3.727	190.6	10.7	3.579	29.09	0.01
3/15/23 3:00	5.553	213.3	9.4	3.547	29.09	0.01
3/15/23 3:15	4.964	201.6	12.15	3.376	29.1	0
3/15/23 3:30	3.764	203.2	9.38	3.273	29.11	0
3/15/23 3:45	3.802	198.2	7.398	3.227	29.12	0
3/15/23 4:00	3.654	200	7.33	3.246	29.12	0
3/15/23 4:15	4.134	186.8	7.652	3.223	29.13	0
3/15/23 4:30	4.419	195.9	9.43	3.349	29.14	0
3/15/23 4:45	3.66	194.8	9.5	3.36	29.15	0
3/15/23 5:00	3.766	199.2	9.34	3.387	29.16	0
3/15/23 5:15	4.264	205.4	7.532	3.41	29.17	0
3/15/23 5:30	3.442	204.9	7.785	3.368	29.18	0
3/15/23 5:45	3.94	208.7	8.51	3.346	29.2	0
3/15/23 6:00	4.505	213.3	9.76	3.341	29.2	0
3/15/23 6:15	4.055	208.5	7.481	3.277	29.22	0
3/15/23 6:30	4.036	205.6	8.37	3.172	29.22	0
3/15/23 6:45	3.985	207.4	8.69	3.105	29.23	0
3/15/23 7:00	3.696	213.4	9.07	2.97	29.25	0.01
3/15/23 7:15	3.031	207.8	9.65	2.813	29.26	0.01
3/15/23 7:30	1.653	209.7	25.01	2.813	29.27	0
3/15/23 7:45	1.323	44.26	12.14	2.231	29.28	0
3/15/23 8:00	0.787	21.15	18.89	2.156	29.29	0
3/15/23 8:15	1.344	24.44	8.84	2.197	29.3	0
3/15/23 8:30	1.584	49.21	10.31	2.251	29.3	0.01
3/15/23 8:45	1.436	60.63	11.79	2.415	29.31	0
3/15/23 9:00	1.759	68	9.69	2.656	29.32	0.01
3/15/23 9:15	1.41	76.16	13.11	3.001	29.32	0
3/15/23 9:30	2.015	102.3	14.61	3.44	29.33	0
3/15/23 9:45	2.392	116.6	19.7	3.987	29.33	0
3/15/23 10:00	2.472	128.7	21.91	4.246	29.34	0
3/15/23 10:15	2.999	141.9	10.84	4.936	29.34	0

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/15/23 10:30	2.561	140.9	21.4	5.017	29.35	0
3/15/23 10:45	2.478	144.8	27.1	5.153	29.35	0
3/15/23 11:00	3.688	154.5	30.67	6.098	29.36	0
3/15/23 11:15	3.999	175.2	14.42	5.626	29.36	0
3/15/23 11:30	3.487	161.1	13.85	6.143	29.37	0
3/15/23 11:45	2.902	139.9	30.64	6.415	29.37	0
3/15/23 12:00	1.9	136.9	34.46	6.358	29.37	0
3/15/23 12:15	2.575	156	44.2	6.66	29.37	0
3/15/23 12:30	3.425	181	18.4	6.953	29.38	0
3/15/23 12:45	2.785	191.8	18.63	7.323	29.38	0
3/15/23 13:00	3.125	206.8	14.52	7.334	29.38	0
3/15/23 13:15	2.236	201.9	38.44	7.922	29.38	0
3/15/23 13:30	2.772	244.7	21.53	8.03	29.38	0
3/15/23 13:45	3.129	198.9	32.18	8.25	29.38	0
3/15/23 14:00	3.28	215.6	16.63	8.03	29.38	0
3/15/23 14:15	2.705	221.9	17.04	7.893	29.38	0
3/15/23 14:30	1.518	350.3	67.64	7.828	29.39	0
3/15/23 14:45	4.499	45.03	9.55	6.781	29.39	0
3/15/23 15:00	2.856	42.09	11.29	6.473	29.4	0
3/15/23 15:15	3.153	66.74	11.61	6.495	29.4	0
3/15/23 15:30	2.1	60.65	11.43	6.771	29.4	0
3/15/23 15:45	2.242	45.45	12.43	7.533	29.4	0
3/15/23 16:00	3.074	35.28	10.78	7.397	29.4	0
3/15/23 16:15	3.144	32.04	9.66	7.428	29.4	0
3/15/23 16:30	2.712	33.96	9.43	7.5	29.4	0
3/15/23 16:45	2.286	53.64	14.7	7.867	29.41	0
3/15/23 17:00	2.005	49.43	15.18	7.886	29.41	0
3/15/23 17:15	2.345	32.17	11.12	7.451	29.41	0
3/15/23 17:30	2.176	49.04	9.14	7.007	29.41	0
3/15/23 17:45	2.23	46.32	6.83	6.65	29.41	0
3/15/23 18:00	2.759	43.99	6.881	6.406	29.41	0
3/15/23 18:15	2.295	47.85	7.991	5.877	29.42	0
3/15/23 18:30	2.57	58.8	7.249	5.344	29.42	0
3/15/23 18:45	2.402	65.76	7.521	5.325	29.42	0
3/15/23 19:00	2.034	79.06	11.18	5.368	29.43	0
3/15/23 19:15	2.027	92	10.52	5.342	29.43	0
3/15/23 19:30	1.958	95.7	9.75	5.325	29.43	0
3/15/23 19:45	1.763	74.14	12.51	5.363	29.43	0
3/15/23 20:00	1.379	42.08	9.49	4.331	29.44	0
3/15/23 20:15	1.77	37.74	7.157	3.853	29.44	0
3/15/23 20:30	1.326	54.06	13.75	3.695	29.44	0
3/15/23 20:45	2.461	40.27	9.55	3.317	29.45	0
3/15/23 21:00	3.181	36.29	6.612	3.179	29.45	0
3/15/23 21:15	2.798	40.69	6.555	3.128	29.45	0
3/15/23 21:30	2.57	54.91	10.67	3.28	29.45	0
3/15/23 21:45	2.122	70.95	14.24	3.656	29.45	0
3/15/23 22:00	2.402	69.89	13	3.572	29.45	0
3/15/23 22:15	2.083	70.63	16.48	3.977	29.45	0
3/15/23 22:30	1.682	41.59	13.99	3.068	29.45	0
3/15/23 22:45	0.977	74.8	61.88	2.474	29.45	0
3/15/23 23:00	0.86	214.9	23.02	2.678	29.45	0
3/15/23 23:15	1.04	185.3	35.38	2.635	29.46	0
3/15/23 23:30	0.626	152.1	37.67	2.713	29.45	0
3/15/23 23:45	0.798	130.3	21.38	2.343	29.45	0
3/16/23 0:00	0.652	50.87	25.88	1.738	29.45	0
3/16/23 0:15	1.469	22.75	5.491	1.569	29.45	0
3/16/23 0:30	1.241	65.59	22.48	0.958	29.45	0
3/16/23 0:45	1.355	41.57	17.25	0.78	29.45	0
3/16/23 1:00	2.347	15.63	10.94	0.798	29.45	0
3/16/23 1:15	1.683	35.15	9.06	0.965	29.45	0
3/16/23 1:30	1.688	28.15	7.814	0.839	29.45	0
3/16/23 1:45	0.885	88.4	37.33	0.601	29.45	0
3/16/23 2:00	0.791	139.9	26.7	1.349	29.45	0
3/16/23 2:15	0.816	52.56	21.17	1.078	29.45	0
3/16/23 2:30	1.47	37.56	6.73	0.401	29.44	0
3/16/23 2:45	1.624	35.59	10.43	0.204	29.44	0
3/16/23 3:00	2.027	27.06	6.534	-0.264	29.44	0
3/16/23 3:15	2.129	24.68	9.12	-0.514	29.44	0
3/16/23 3:30	1.726	53.69	8.37	-0.266	29.44	0
3/16/23 3:45	1.48	50.77	10.12	-0.396	29.44	0
3/16/23 4:00	2.47	38.21	9.42	-1.058	29.44	0
3/16/23 4:15	2.423	34.08	8.29	-1.294	29.44	0
3/16/23 4:30	2.428	34.9	11.68	-1.457	29.44	0
3/16/23 4:45	2.252	43.38	9.85	-1.571	29.43	0
3/16/23 5:00	2.81	38.27	10.08	-1.479	29.44	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/16/23 5:15	3.366	41.97	9.79	-1.43	29.43	0
3/16/23 5:30	2.982	43.22	10.94	-1.427	29.43	0
3/16/23 5:45	3.045	40.14	10.86	-1.496	29.43	0
3/16/23 6:00	3.314	40.8	9.28	-1.502	29.43	0
3/16/23 6:15	3.263	37.3	9.24	-1.508	29.43	0
3/16/23 6:30	3.588	40.28	10.51	-1.533	29.43	0
3/16/23 6:45	3.375	37.01	8.57	-1.598	29.43	0
3/16/23 7:00	3.117	40.16	8.81	-1.475	29.43	0
3/16/23 7:15	2.989	35.16	11.8	-1.284	29.43	0
3/16/23 7:30	3.106	37.7	9.84	-1.021	29.43	0
3/16/23 7:45	2.998	39.46	11.13	-0.831	29.42	0
3/16/23 8:00	2.307	39.13	8.68	-0.545	29.42	0
3/16/23 8:15	2.266	40.51	8.49	0.09	29.42	0
3/16/23 8:30	2.023	39.79	7.521	0.736	29.42	0
3/16/23 8:45	1.07	44.37	17.85	1.645	29.42	0
3/16/23 9:00	0.542	24.03	31.67	2.998	29.42	0
3/16/23 9:15	0.544	298.2	47.08	4.223	29.42	0
3/16/23 9:30	1.218	38.13	21.8	4.417	29.42	0
3/16/23 9:45	1.418	35.22	17.45	4.05	29.42	0
3/16/23 10:00	1.143	21.75	22.86	5.093	29.41	0
3/16/23 10:15	1.6	24.66	27.06	5.403	29.41	0
3/16/23 10:30	1.943	20.27	29.85	6.293	29.41	0
3/16/23 10:45	2.17	33.29	14.18	6.824	29.4	0
3/16/23 11:00	2.637	31.1	13.6	7.562	29.4	0
3/16/23 11:15	2.589	25.36	11.15	8.62	29.4	0
3/16/23 11:30	2.742	31.08	15.51	9.4	29.39	0
3/16/23 11:45	2.947	61.53	58.29	10.11	29.39	0
3/16/23 12:00	3.906	113.9	27.06	11.65	29.38	0
3/16/23 12:15	4.997	124.7	15.5	12.04	29.38	0
3/16/23 12:30	5.832	117.7	16.31	12.15	29.38	0
3/16/23 12:45	5.716	112.6	13.9	12.2	29.37	0
3/16/23 13:00	5.426	122.3	14.68	12.51	29.37	0
3/16/23 13:15	4.77	122.8	19.77	12.78	29.36	0
3/16/23 13:30	5.705	128	15	12.86	29.35	0
3/16/23 13:45	4.863	117.3	15.96	12.94	29.35	0
3/16/23 14:00	5.155	126.8	17.25	12.86	29.35	0
3/16/23 14:15	4.816	124.1	13.9	12.93	29.34	0
3/16/23 14:30	4.516	124.9	13.49	13.17	29.34	0
3/16/23 14:45	5.401	130.8	11.76	13.06	29.33	0
3/16/23 15:00	5.074	132.7	14.89	13.04	29.33	0
3/16/23 15:15	4.015	112.3	20.7	13.1	29.33	0
3/16/23 15:30	4.926	98.1	18.46	12.71	29.33	0
3/16/23 15:45	4.432	101.2	16.4	12.85	29.32	0
3/16/23 16:00	5.228	119.3	15.04	12.65	29.32	0
3/16/23 16:15	5.163	113.1	13.54	12.59	29.32	0
3/16/23 16:30	5.056	117.7	15.29	12.5	29.31	0
3/16/23 16:45	5.206	110.8	14.7	12.19	29.31	0
3/16/23 17:00	4.852	115.9	13.51	11.98	29.31	0
3/16/23 17:15	4.783	116.7	14.98	11.68	29.3	0
3/16/23 17:30	4.1	111.5	12.9	11.45	29.3	0
3/16/23 17:45	4.407	112.1	15.31	11.18	29.3	0
3/16/23 18:00	3.466	108	21.82	10.92	29.3	0
3/16/23 18:15	4.112	110.1	13.65	10.65	29.3	0
3/16/23 18:30	3.726	109.8	16.18	10.32	29.29	0
3/16/23 18:45	4.222	117.4	16.17	10.14	29.29	0
3/16/23 19:00	3.809	119.6	13.65	9.78	29.3	0
3/16/23 19:15	4.098	121.6	11.75	9.69	29.3	0
3/16/23 19:30	3.955	126	10.31	9.36	29.3	0
3/16/23 19:45	4.367	122.9	11.4	9.2	29.3	0
3/16/23 20:00	4.622	116	10.39	9.07	29.3	0
3/16/23 20:15	4.453	118.4	12.76	8.98	29.3	0
3/16/23 20:30	3.909	119.2	13.12	8.77	29.3	0
3/16/23 20:45	4.08	121.8	12.29	8.82	29.3	0
3/16/23 21:00	4.534	120.1	13.62	8.89	29.3	0
3/16/23 21:15	4.449	117.1	10.89	8.88	29.3	0
3/16/23 21:30	4.002	127.1	10.92	8.74	29.3	0
3/16/23 21:45	4.288	125	11.58	8.73	29.31	0
3/16/23 22:00	3.745	127.9	10.52	8.57	29.31	0
3/16/23 22:15	4.243	132.1	10.67	8.63	29.31	0
3/16/23 22:30	3.727	126.3	12.6	8.4	29.31	0
3/16/23 22:45	4.282	133.8	12.35	8.51	29.31	0
3/16/23 23:00	4.109	130.8	11.1	8.54	29.31	0
3/16/23 23:15	4.997	132	9.75	8.65	29.31	0
3/16/23 23:30	5.386	132.2	11.2	8.63	29.31	0
3/16/23 23:45	5.548	132.9	11.97	8.66	29.32	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/17/23 0:00	6.197	133.3	11.17	8.73	29.32	0
3/17/23 0:15	5.514	126.9	11.36	8.61	29.32	0
3/17/23 0:30	6.608	133.2	10.69	8.72	29.32	0
3/17/23 0:45	5.966	131.1	11.68	8.66	29.32	0
3/17/23 1:00	5.63	127.2	13.43	8.47	29.32	0
3/17/23 1:15	5.545	127.7	13.05	8.6	29.32	0
3/17/23 1:30	4.435	126.1	12.05	8.5	29.32	0
3/17/23 1:45	2.978	124.6	12.8	8.18	29.32	0
3/17/23 2:00	3.864	123.8	12.58	7.847	29.32	0
3/17/23 2:15	4.049	116.9	11.85	7.74	29.31	0
3/17/23 2:30	3.505	115.4	13.16	7.624	29.31	0
3/17/23 2:45	3.602	121.5	12.7	7.78	29.31	0
3/17/23 3:00	4.355	126	13.84	7.838	29.31	0
3/17/23 3:15	5.965	126.3	13.56	7.936	29.3	0
3/17/23 3:30	6.246	129.8	12.8	8.34	29.3	0
3/17/23 3:45	5.858	132.4	11.48	8.49	29.3	0
3/17/23 4:00	5.306	130.2	10.59	8.54	29.3	0
3/17/23 4:15	4.944	130.3	12.01	8.35	29.3	0
3/17/23 4:30	5.245	127.4	12.73	8.29	29.3	0
3/17/23 4:45	5.833	129.8	11.16	8.4	29.3	0
3/17/23 5:00	5.354	128.1	11.45	8.38	29.3	0
3/17/23 5:15	5.608	131.8	11.26	8.57	29.3	0
3/17/23 5:30	5.184	126.5	12.11	8.48	29.3	0
3/17/23 5:45	5.32	121.5	11.34	8.46	29.31	0
3/17/23 6:00	5.231	123.6	11.39	8.47	29.31	0
3/17/23 6:15	5.113	125.9	11.8	8.43	29.31	0
3/17/23 6:30	4.621	121.9	12.82	8.45	29.31	0
3/17/23 6:45	4.287	123.4	13.39	8.41	29.31	0
3/17/23 7:00	3.68	116.8	14.1	8.41	29.31	0
3/17/23 7:15	4.173	120.5	14.83	8.58	29.31	0
3/17/23 7:30	3.94	119.1	13.31	8.76	29.31	0
3/17/23 7:45	4.35	119.5	12.38	9.13	29.31	0
3/17/23 8:00	4.715	125.6	11.65	9.44	29.31	0
3/17/23 8:15	4.786	127.6	11.47	9.92	29.31	0
3/17/23 8:30	4.934	124.7	13.38	10.31	29.31	0
3/17/23 8:45	4.872	123.4	14.26	10.67	29.31	0
3/17/23 9:00	4.633	133.3	12.21	11.16	29.31	0
3/17/23 9:15	5.662	128.3	13.21	11.37	29.31	0
3/17/23 9:30	5.199	136.9	11.75	11.85	29.31	0
3/17/23 9:45	5.59	130.7	14.52	12.19	29.32	0
3/17/23 10:00	5.78	134.4	13.48	12.36	29.32	0
3/17/23 10:15	5.305	124.6	16.8	12.74	29.31	0
3/17/23 10:30	4.772	128.1	17.27	13.15	29.31	0
3/17/23 10:45	5.085	136.4	16.87	13.43	29.31	0
3/17/23 11:00	4.139	127.5	17.91	13.66	29.31	0
3/17/23 11:15	4.066	138.2	17.66	14.31	29.31	0
3/17/23 11:30	3.821	144.9	14.52	14.31	29.3	0
3/17/23 11:45	3.55	119.7	19	14.59	29.3	0
3/17/23 12:00	3.181	125.1	26.84	15.05	29.3	0
3/17/23 12:15	3.125	94.9	30.48	15.06	29.3	0
3/17/23 12:30	3.279	131.7	51.42	15.03	29.3	0
3/17/23 12:45	2.049	79.73	59.96	15.25	29.29	0
3/17/23 13:00	2.315	182.2	34.87	15.76	29.29	0
3/17/23 13:15	2.774	163.5	24.24	15.7	29.29	0
3/17/23 13:30	1.733	214.1	38.75	15.75	29.28	0
3/17/23 13:45	2.223	202	61.12	15.92	29.28	0
3/17/23 14:00	2.031	117	27.23	15.82	29.28	0
3/17/23 14:15	1.303	192.5	68.07	16.23	29.27	0
3/17/23 14:30	1.934	58.09	36.52	16.1	29.27	0
3/17/23 14:45	2.419	12.87	34.04	16.18	29.26	0
3/17/23 15:00	2.08	36.73	33.93	15.82	29.26	0
3/17/23 15:15	1.227	216.4	59.62	16.48	29.26	0
3/17/23 15:30	1.49	179.2	34.5	16.43	29.26	0
3/17/23 15:45	1.006	172.7	40.15	16.17	29.25	0
3/17/23 16:00	1.334	341.2	24.66	16.3	29.25	0
3/17/23 16:15	2.843	327	22.72	16.12	29.25	0
3/17/23 16:30	2.465	339.5	22.51	15.76	29.25	0
3/17/23 16:45	1.696	17.2	31.26	15.23	29.25	0
3/17/23 17:00	1.68	2.029	17.95	15.01	29.25	0
3/17/23 17:15	1.93	33.38	23.6	14.89	29.25	0
3/17/23 17:30	2.85	88	23.65	14.42	29.25	0
3/17/23 17:45	2.609	118.3	10.95	14.08	29.26	0
3/17/23 18:00	2.752	140.4	14.77	13.67	29.26	0
3/17/23 18:15	2.259	130.4	13.59	13.44	29.26	0
3/17/23 18:30	1.517	107.5	13.59	13.25	29.26	0

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/17/23 18:45	2.071	122.2	10.07	12.91	29.26	0
3/17/23 19:00	2.565	122.2	12.31	12.53	29.26	0
3/17/23 19:15	2.834	123.1	13.23	12.3	29.26	0
3/17/23 19:30	2.428	124.5	9.82	12.06	29.27	0
3/17/23 19:45	3.265	128.9	10.09	11.78	29.27	0
3/17/23 20:00	3.327	131.1	9.94	11.61	29.27	0
3/17/23 20:15	3.168	134.7	8.86	11.32	29.27	0
3/17/23 20:30	3.454	136.1	9.55	11.24	29.27	0
3/17/23 20:45	3.86	147.2	9.93	10.97	29.27	0
3/17/23 21:00	4.038	146.1	10.57	10.92	29.27	0
3/17/23 21:15	3.377	130.6	13.2	10.86	29.28	0
3/17/23 21:30	4.256	128.8	12.85	10.86	29.28	0
3/17/23 21:45	3.44	116.1	13.41	10.62	29.28	0
3/17/23 22:00	2.927	117	13.34	10.58	29.27	0
3/17/23 22:15	3.048	123.4	11.57	10.49	29.27	0
3/17/23 22:30	3.702	133.3	10.65	10.48	29.27	0
3/17/23 22:45	4.45	135.1	10.69	10.57	29.27	0
3/17/23 23:00	4.298	127.3	13.4	10.61	29.27	0
3/17/23 23:15	3.386	130.3	13.42	10.44	29.27	0
3/17/23 23:30	3.874	134.2	10.53	10.45	29.27	0
3/17/23 23:45	3.569	128.5	14.23	10.39	29.27	0
3/18/23 0:00	3.467	128.3	13.87	10.32	29.27	0
3/18/23 0:15	2.814	127.8	15.33	10.16	29.27	0
3/18/23 0:30	2.873	165	19.51	10.02	29.27	0
3/18/23 0:45	2.281	194.5	19.56	9.92	29.27	0
3/18/23 1:00	2.399	170.1	19.25	9.62	29.27	0
3/18/23 1:15	2.567	156.5	12.61	9.5	29.27	0
3/18/23 1:30	2.581	155.3	13.42	9.42	29.27	0
3/18/23 1:45	1.758	142.5	18.45	9.26	29.27	0
3/18/23 2:00	2.131	158.4	15.03	9.15	29.27	0
3/18/23 2:15	2.593	150.5	11.08	9.12	29.27	0
3/18/23 2:30	2.292	145	12.66	9.08	29.27	0
3/18/23 2:45	2.406	137.2	9.38	9.06	29.27	0
3/18/23 3:00	2.914	139.8	9.11	9.05	29.26	0
3/18/23 3:15	2.43	128.3	10.4	8.83	29.26	0
3/18/23 3:30	2.38	132.4	10.57	8.7	29.26	0
3/18/23 3:45	2.284	124.3	12.96	8.77	29.26	0
3/18/23 4:00	1.963	117.3	10.82	8.56	29.26	0
3/18/23 4:15	2.386	131.4	8.56	8.64	29.26	0
3/18/23 4:30	2.907	128.5	10.89	8.52	29.25	0
3/18/23 4:45	2.692	144.7	7.296	8.23	29.25	0
3/18/23 5:00	2.565	153.3	6.117	8.3	29.25	0
3/18/23 5:15	2.39	133.9	8.83	8.38	29.25	0
3/18/23 5:30	2.173	122.5	14.48	8.1	29.25	0
3/18/23 5:45	1.331	112.9	13.6	7.745	29.25	0
3/18/23 6:00	1.307	127	18.16	7.599	29.25	0
3/18/23 6:15	1.965	136.6	7.011	7.824	29.25	0
3/18/23 6:30	1.453	127	9.96	7.953	29.25	0
3/18/23 6:45	0.816	103	21.9	7.519	29.25	0
3/18/23 7:00	1.777	164	12.4	7.659	29.25	0
3/18/23 7:15	1.391	117.6	50.66	7.44	29.25	0
3/18/23 7:30	1.013	36.18	9.01	6.64	29.24	0
3/18/23 7:45	1.771	32.07	9.57	7.393	29.24	0
3/18/23 8:00	1.492	21.84	13.7	8.25	29.23	0
3/18/23 8:15	1.253	30.81	12.53	8.8	29.23	0
3/18/23 8:30	1.138	45.51	9.99	9.23	29.23	0
3/18/23 8:45	1.091	58.78	17.61	10.25	29.23	0
3/18/23 9:00	1.165	21.63	15.58	9.98	29.23	0
3/18/23 9:15	1.112	16.41	17.24	10.83	29.23	0
3/18/23 9:30	1.56	16.3	21.86	11.09	29.23	0
3/18/23 9:45	1.764	11.46	23.09	11.62	29.22	0
3/18/23 10:00	1.804	40.44	12.29	11.96	29.22	0
3/18/23 10:15	1.683	42.15	13.61	12.43	29.22	0
3/18/23 10:30	1.799	36.5	14.93	12.85	29.21	0
3/18/23 10:45	1.313	13.09	22.86	13.5	29.21	0
3/18/23 11:00	1.284	23.55	32.48	14.39	29.2	0
3/18/23 11:15	1.229	13.23	48.32	14.95	29.2	0
3/18/23 11:30	2.149	289.8	32.42	15.73	29.2	0
3/18/23 11:45	4.907	283.6	6.08	14.8	29.19	0
3/18/23 12:00	4.483	281.2	9.61	14.83	29.19	0
3/18/23 12:15	4.2	279.9	9.09	15.07	29.18	0
3/18/23 12:30	3.317	284.9	10.63	15.62	29.17	0
3/18/23 12:45	3.638	281.3	11.68	15.8	29.17	0
3/18/23 13:00	3.87	278.2	10.29	16.24	29.16	0
3/18/23 13:15	3.495	290	21.45	16.54	29.15	0

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/18/23 13:30	3.027	294.1	14.99	16.53	29.14	0
3/18/23 13:45	2.881	280.3	20.25	16.69	29.14	0
3/18/23 14:00	3.193	295.8	19.52	17.08	29.13	0
3/18/23 14:15	3.038	296.3	19.73	17.13	29.13	0
3/18/23 14:30	3.223	313.5	12.76	17.46	29.13	0
3/18/23 14:45	3.694	303.8	14.65	17.38	29.12	0
3/18/23 15:00	4.081	302.3	10.68	17.3	29.12	0
3/18/23 15:15	3.93	297.4	11.94	17.45	29.12	0
3/18/23 15:30	3.593	296.5	14.24	17.67	29.11	0
3/18/23 15:45	3.699	290.6	11.83	17.46	29.11	0
3/18/23 16:00	4.556	298.6	8.62	17.49	29.11	0
3/18/23 16:15	4.222	296.5	10.25	17.21	29.11	0
3/18/23 16:30	4.682	296.4	7.875	16.95	29.11	0
3/18/23 16:45	4.741	295.3	6.586	16.72	29.1	0
3/18/23 17:00	4.202	295	7.98	16.61	29.11	0
3/18/23 17:15	3.713	300.5	7.666	16.25	29.1	0
3/18/23 17:30	2.948	308.2	7.19	15.53	29.1	0
3/18/23 17:45	2.7	343	18.72	15.09	29.1	0
3/18/23 18:00	2.429	349.1	16.35	15.02	29.1	0
3/18/23 18:15	3.849	19.15	17.73	14.66	29.09	0
3/18/23 18:30	2.434	47.65	14.95	14.25	29.1	0
3/18/23 18:45	1.789	52.55	6.643	13.96	29.1	0
3/18/23 19:00	1.081	49.2	11.68	14.22	29.1	0
3/18/23 19:15	0.866	96	28.99	14.01	29.1	0
3/18/23 19:30	1.528	156.4	13.31	13.87	29.11	0
3/18/23 19:45	2.121	151.3	8.14	13.34	29.11	0
3/18/23 20:00	2.425	128.5	8.79	12.96	29.11	0
3/18/23 20:15	2.316	119.5	9.37	12.53	29.11	0
3/18/23 20:30	2.419	129.9	8.36	12.06	29.1	0
3/18/23 20:45	2.844	133.9	9.3	12.05	29.1	0
3/18/23 21:00	2.561	127.8	11	11.92	29.1	0
3/18/23 21:15	2.829	142.2	9.66	11.84	29.1	0
3/18/23 21:30	3.035	139.9	11.15	11.97	29.1	0
3/18/23 21:45	2.652	131.1	14.35	11.9	29.1	0
3/18/23 22:00	2.194	127.4	15.97	11.7	29.09	0
3/18/23 22:15	2.823	134	13.61	11.56	29.09	0
3/18/23 22:30	3.702	126.6	12.58	11.58	29.09	0
3/18/23 22:45	3.335	122.4	13.17	11.38	29.09	0
3/18/23 23:00	3.334	123.7	12.8	11.31	29.08	0
3/18/23 23:15	2.968	144.3	14.04	11.38	29.08	0
3/18/23 23:30	2.406	164.1	14.79	11.41	29.08	0
3/18/23 23:45	1.607	166.7	24.69	11.26	29.08	0
3/19/23 0:00	2.275	149	19.59	11.23	29.08	0
3/19/23 0:15	2.986	130.2	13.73	11.28	29.07	0
3/19/23 0:30	2.049	116.1	14.64	11.08	29.07	0
3/19/23 0:45	2.257	128.2	15.8	11.02	29.06	0
3/19/23 1:00	1.745	130.7	11.85	10.91	29.06	0
3/19/23 1:15	2.101	142.4	11.84	10.89	29.06	0
3/19/23 1:30	2.631	144.4	10.54	10.83	29.06	0
3/19/23 1:45	2.624	130.4	13.16	11.07	29.06	0
3/19/23 2:00	2.943	143.9	16.51	10.88	29.06	0
3/19/23 2:15	3.985	125.4	11.49	10.98	29.05	0
3/19/23 2:30	2.547	110.7	12.87	10.45	29.05	0
3/19/23 2:45	2.226	106.9	14.02	10.25	29.04	0
3/19/23 3:00	2.66	122.9	11.91	10.46	29.04	0
3/19/23 3:15	2.683	127.5	10	10.84	29.03	0
3/19/23 3:30	2.713	131.7	10.23	10.73	29.02	0
3/19/23 3:45	2.829	124	11.25	10.67	29.02	0
3/19/23 4:00	2.958	130.2	11.56	10.51	29.02	0
3/19/23 4:15	2.661	123.2	10.88	10.69	29.01	0
3/19/23 4:30	1.846	117	13.73	10.35	29.01	0
3/19/23 4:45	1.603	100.9	14.52	10.42	29.01	0
3/19/23 5:00	1.809	96.2	19.65	10.29	29	0
3/19/23 5:15	1.924	112.3	14.83	10.2	29	0
3/19/23 5:30	1.543	102.5	15.68	10.11	29	0
3/19/23 5:45	1.886	101	17.28	10.21	28.99	0
3/19/23 6:00	1.636	63.4	15.01	8.99	28.99	0
3/19/23 6:15	1.925	63.15	12.75	8.6	28.98	0
3/19/23 6:30	2.035	47.31	11.48	8.64	28.98	0
3/19/23 6:45	2.222	49.25	9.87	8.56	28.97	0
3/19/23 7:00	1.91	51.66	13.01	8.66	28.97	0
3/19/23 7:15	1.245	75.04	19.07	9.6	28.96	0
3/19/23 7:30	1.454	86.2	22.67	10.42	28.96	0
3/19/23 7:45	1.242	70.23	20.07	10.11	28.96	0
3/19/23 8:00	1.664	88	17.82	10.54	28.95	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/19/23 8:15	1.324	101.7	17.43	10.71	28.95	0
3/19/23 8:30	0.482	44.5	56.9	11.23	28.95	0
3/19/23 8:45	0.808	58.16	87.8	11.88	28.94	0
3/19/23 9:00	1.514	314.4	27.72	11.72	28.94	0
3/19/23 9:15	0.75	296.8	61.05	12.55	28.94	0
3/19/23 9:30	1.435	85.6	47.37	13.64	28.94	0
3/19/23 9:45	3.085	120.6	17.96	13.89	28.94	0
3/19/23 10:00	4.16	135.5	16.88	14.22	28.93	0
3/19/23 10:15	6.084	136.4	18.56	14.59	28.92	0
3/19/23 10:30	5.845	144.5	16.31	14.76	28.92	0
3/19/23 10:45	4.685	111.1	26.35	14.87	28.92	0
3/19/23 11:00	4.355	117.9	21.73	14.95	28.91	0
3/19/23 11:15	4.493	116.4	18.52	15.42	28.91	0
3/19/23 11:30	6.966	116.9	15.48	15.76	28.9	0
3/19/23 11:45	6.093	123.2	14.7	15.81	28.9	0
3/19/23 12:00	5.219	126.2	16.99	15.85	28.89	0
3/19/23 12:15	4.827	117.3	20.36	16.7	28.88	0
3/19/23 12:30	5.09	128.4	19.79	16.78	28.88	0
3/19/23 12:45	4.759	132.7	18.96	16.77	28.87	0
3/19/23 13:00	4.964	136.9	17.33	16.55	28.87	0
3/19/23 13:15	4.279	122.5	15.33	16.36	28.86	0
3/19/23 13:30	4.166	132.2	18.28	16.46	28.86	0
3/19/23 13:45	4.377	139.2	14.19	16.52	28.85	0
3/19/23 14:00	4.534	135.3	13.68	16.57	28.85	0
3/19/23 14:15	5.149	113.7	14.71	16.18	28.84	0
3/19/23 14:30	3.898	118	18.79	16.17	28.84	0
3/19/23 14:45	4.328	143.7	14.81	16.09	28.83	0
3/19/23 15:00	3.336	165.9	42.88	15.72	28.83	0
3/19/23 15:15	1.823	283.8	42.84	15.55	28.83	0
3/19/23 15:30	2.685	289.3	11.44	15.21	28.83	0
3/19/23 15:45	2.863	306.8	11.69	15.09	28.82	0
3/19/23 16:00	3.4	315.6	16.94	14.79	28.81	0
3/19/23 16:15	4.703	284.4	4.867	13.81	28.81	0
3/19/23 16:30	4.628	286.7	5.454	13.27	28.81	0
3/19/23 16:45	4.619	286	7.344	12.87	28.8	0
3/19/23 17:00	4.53	276	8.33	12.48	28.8	0
3/19/23 17:15	2.835	274.4	8.17	12.37	28.8	0
3/19/23 17:30	2.689	248	8.34	12.16	28.8	0
3/19/23 17:45	1.83	229.6	48.22	12.02	28.8	0
3/19/23 18:00	2.384	190.6	24.23	11.88	28.81	0
3/19/23 18:15	2.275	203.7	13.55	11.82	28.82	0
3/19/23 18:30	2.605	228	13.47	11.69	28.82	0
3/19/23 18:45	1.189	231.7	52.59	11.62	28.82	0
3/19/23 19:00	2.495	273.9	13.29	11.22	28.82	0
3/19/23 19:15	2.687	271.1	18.34	11.06	28.82	0
3/19/23 19:30	2.244	254.5	18.09	10.98	28.82	0
3/19/23 19:45	1.597	260.3	21.08	10.65	28.82	0
3/19/23 20:00	2.917	275.8	19.89	10.4	28.81	0
3/19/23 20:15	3.546	269.1	13	10.04	28.81	0
3/19/23 20:30	3.717	269.1	8.3	9.76	28.81	0
3/19/23 20:45	2.118	274.5	10.03	9.5	28.81	0
3/19/23 21:00	2.08	296.5	14.08	9.32	28.81	0
3/19/23 21:15	2.598	299.2	5.843	9.13	28.81	0
3/19/23 21:30	1.907	283.6	14.55	9.07	28.81	0
3/19/23 21:45	1.607	281.5	6.318	8.97	28.81	0
3/19/23 22:00	1.386	287.5	5.453	8.88	28.81	0
3/19/23 22:15	1.701	277.1	6.601	8.82	28.81	0
3/19/23 22:30	2.017	276.8	15.51	8.76	28.81	0
3/19/23 22:45	1.028	348.1	37.18	8.56	28.81	0
3/19/23 23:00	1.946	336.8	18.42	8.13	28.81	0
3/19/23 23:15	2.694	306.8	3.756	7.902	28.8	0.01
3/19/23 23:30	3.192	298	4.59	7.826	28.79	0
3/19/23 23:45	3.627	301	5.103	7.764	28.79	0
3/20/23 0:00	3.226	298.5	28.69	7.562	28.8	0
3/20/23 0:15	0.432	98.2	34.93	7.433	28.81	0
3/20/23 0:30	1.173	293	62.4	7.405	28.81	0
3/20/23 0:45	1.261	211.5	7.505	7.197	28.81	0.01
3/20/23 1:00	0.875	165.9	10.7	7.032	28.81	0.01
3/20/23 1:15	0.498	223.1	32.41	7.123	28.81	0.01
3/20/23 1:30	1.425	246.1	11.89	7.194	28.81	0.01
3/20/23 1:45	1.484	221.1	8.1	7.088	28.81	0.02
3/20/23 2:00	1.327	209.7	11.81	7.004	28.82	0.01
3/20/23 2:15	1.312	106.4	18.9	6.84	28.82	0.01
3/20/23 2:30	0.532	88.5	9.34	6.721	28.81	0.01
3/20/23 2:45	0.78	86.1	15.14	6.721	28.81	0.01

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/20/23 3:00	0.663	132.8	18.09	6.735	28.81	0
3/20/23 3:15	1.058	132.4	5.148	6.749	28.81	0.01
3/20/23 3:30	0.676	125.5	14.46	6.751	28.81	0.02
3/20/23 3:45	1.137	90.5	9.55	6.708	28.81	0.01
3/20/23 4:00	1.451	94.1	6.253	6.685	28.81	0.01
3/20/23 4:15	1.384	97.8	12.18	6.675	28.81	0
3/20/23 4:30	1.501	100.7	20	6.655	28.82	0.01
3/20/23 4:45	1.762	59.29	7.532	6.639	28.82	0.01
3/20/23 5:00	1.837	46.45	8.18	6.617	28.82	0.01
3/20/23 5:15	2.11	46.19	7.014	6.511	28.82	0.02
3/20/23 5:30	2.351	46.06	7.559	6.48	28.82	0
3/20/23 5:45	1.956	45.38	7.113	6.461	28.82	0.01
3/20/23 6:00	1.673	45.07	6.71	6.416	28.82	0
3/20/23 6:15	1.288	50.56	8.27	6.424	28.83	0
3/20/23 6:30	1.252	126.4	76.75	6.462	28.83	0
3/20/23 6:45	2.951	187.2	18.71	6.53	28.84	0
3/20/23 7:00	2.452	161.6	8.94	6.526	28.85	0
3/20/23 7:15	1.797	150.1	8.91	6.639	28.85	0
3/20/23 7:30	1.862	151.4	11.97	6.667	28.85	0
3/20/23 7:45	1.959	141.7	8.58	6.714	28.86	0
3/20/23 8:00	2.242	139.3	8.79	6.789	28.86	0
3/20/23 8:15	2.73	148.6	9.31	6.931	28.87	0
3/20/23 8:30	3.11	151.7	7.451	7.019	28.87	0
3/20/23 8:45	2.872	154.2	9.73	7.133	28.88	0.01
3/20/23 9:00	2.036	142.7	15.77	7.196	28.88	0.01
3/20/23 9:15	2.288	150.5	13.25	7.269	28.89	0
3/20/23 9:30	2.416	140.3	12.4	7.305	28.89	0.01
3/20/23 9:45	2.521	168.7	16.86	7.453	28.9	0.01
3/20/23 10:00	2.33	173.6	20.17	7.607	28.9	0.01
3/20/23 10:15	1.989	174.9	14.92	7.585	28.9	0
3/20/23 10:30	1.732	143.6	15.31	7.628	28.9	0
3/20/23 10:45	1.665	127.3	16.02	7.808	28.91	0
3/20/23 11:00	1.615	91.7	17.54	7.932	28.91	0.01
3/20/23 11:15	1.58	89.1	15.17	8.1	28.9	0
3/20/23 11:30	1.861	99.6	11.03	7.994	28.91	0
3/20/23 11:45	1.237	112.3	15.65	8.09	28.91	0.02
3/20/23 12:00	1.679	181.2	15.28	8.1	28.91	0.02
3/20/23 12:15	1.393	208.8	38.57	8.21	28.91	0.02
3/20/23 12:30	0.908	9.83	19.11	8.37	28.92	0.01
3/20/23 12:45	1.132	13.7	15.09	8.19	28.91	0
3/20/23 13:00	0.416	6.73	4.45	8.06	28.92	0.01
3/20/23 13:15	0.362	9.26	3.079	7.852	28.92	0.01
3/20/23 13:30	0.621	8.58	2.72	7.745	28.92	0.03
3/20/23 13:45	0.365	7.687	2.28	7.635	28.92	0.02
3/20/23 14:00	0.014	12.52	5.262	7.614	28.92	0
3/20/23 14:15	1.06	11.36	53.07	7.605	28.92	0.01
3/20/23 14:30	2.374	172.2	19.12	8.04	28.92	0
3/20/23 14:45	1.834	104.6	18.2	8.03	28.93	0
3/20/23 15:00	1.993	88	13.03	7.767	28.93	0
3/20/23 15:15	2.258	111.3	8.23	7.888	28.93	0
3/20/23 15:30	1.938	118.6	8.21	8.08	28.93	0
3/20/23 15:45	2.728	119.7	8.08	8.15	28.93	0
3/20/23 16:00	2.495	113.3	9.19	8.18	28.93	0
3/20/23 16:15	1.672	121.5	15.73	8.1	28.93	0
3/20/23 16:30	1.635	141.7	12.06	8.4	28.93	0
3/20/23 16:45	1.228	87.1	16.4	8.35	28.93	0
3/20/23 17:00	1.575	114.3	10.52	8.18	28.93	0
3/20/23 17:15	1.111	117.6	12.67	8.17	28.93	0
3/20/23 17:30	1.361	140.7	18.61	8.19	28.93	0
3/20/23 17:45	0.379	161.9	39.58	8.34	28.94	0
3/20/23 18:00	0.673	72.95	36.71	8.11	28.94	0
3/20/23 18:15	0.241	354.9	45.01	7.928	28.95	0.01
3/20/23 18:30	0.291	347.9	12.64	7.934	28.95	0
3/20/23 18:45	0.477	110.2	15.8	8.07	28.95	0
3/20/23 19:00	0.419	45.6	36.07	7.927	28.96	0.01
3/20/23 19:15	0.146	330.3	4.949	7.911	28.96	0.01
3/20/23 19:30	0.29	96.4	49.68	7.836	28.96	0
3/20/23 19:45	0.984	151.1	47.66	7.777	28.97	0
3/20/23 20:00	1.755	204.9	23.08	7.908	28.98	0
3/20/23 20:15	1.565	221.3	14.03	8.04	28.98	0
3/20/23 20:30	0.971	224.1	12.49	8.08	28.98	0
3/20/23 20:45	0.713	195.3	25.18	7.955	28.99	0
3/20/23 21:00	1.199	201.5	21.91	8.07	28.99	0
3/20/23 21:15	0.664	162.4	20.94	7.763	28.99	0
3/20/23 21:30	0.653	158.7	33.19	7.62	29	0

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/20/23 21:45	0.733	143.9	33.19	7.578	29	0
3/20/23 22:00	0.188	141.7	27.7	7.504	29	0
3/20/23 22:15	1.269	171.6	13.77	7.27	29.01	0
3/20/23 22:30	2.115	178.5	8.79	6.945	29.01	0.02
3/20/23 22:45	1.663	161.2	8.09	6.738	29.01	0.01
3/20/23 23:00	2.2	168.7	15.46	6.653	29.01	0
3/20/23 23:15	3.07	177.6	9.57	6.647	29.01	0
3/20/23 23:30	2.782	187.2	8.75	6.562	29.01	0
3/20/23 23:45	2.903	186.3	9.95	6.481	29.02	0
3/21/23 0:00	2.834	183.7	8.81	6.424	29.02	0.01
3/21/23 0:15	2.552	182.4	11.5	6.367	29.02	0.02
3/21/23 0:30	2.202	168.5	14.6	6.336	29.02	0
3/21/23 0:45	2.891	185.7	10.36	6.283	29.02	0
3/21/23 1:00	3.006	195.8	7.104	6.133	29.03	0
3/21/23 1:15	2.467	192.2	8.96	6.111	29.03	0
3/21/23 1:30	2.453	182.7	8.82	6.116	29.03	0
3/21/23 1:45	2.608	187.3	8.97	6.042	29.03	0
3/21/23 2:00	2.461	188.4	8.05	5.944	29.03	0
3/21/23 2:15	1.621	168.1	29.57	5.955	29.03	0
3/21/23 2:30	1.257	129.9	10.57	5.991	29.04	0
3/21/23 2:45	1.692	171.2	21.43	5.906	29.03	0
3/21/23 3:00	1.628	145.7	26.17	5.88	29.03	0
3/21/23 3:15	1.113	125.5	10.07	5.836	29.03	0
3/21/23 3:30	1.301	125.3	9.29	5.729	29.03	0
3/21/23 3:45	1.644	133.4	6.398	5.675	29.03	0
3/21/23 4:00	0.978	95.3	21.92	5.641	29.03	0
3/21/23 4:15	0.911	87.7	11.47	5.554	29.03	0
3/21/23 4:30	1.133	111.7	12.23	5.431	29.03	0
3/21/23 4:45	1.311	121.5	6.121	5.412	29.03	0
3/21/23 5:00	1.008	97.4	20.36	5.392	29.02	0
3/21/23 5:15	0.084	21.24	7.388	5.311	29.02	0
3/21/23 5:30	0.306	43.48	11.18	5.291	29.02	0
3/21/23 5:45	0.288	63.58	12.38	5.267	29.02	0
3/21/23 6:00	0.633	14.23	10.87	5.29	29.02	0
3/21/23 6:15	0.978	355	14.83	5.127	29.02	0
3/21/23 6:30	0.877	292.1	17.75	5.045	29.02	0
3/21/23 6:45	1.327	303.8	15.66	5.123	29.02	0
3/21/23 7:00	0.924	327.6	4.343	5.039	29.02	0
3/21/23 7:15	1.249	358.8	15.42	5.008	29.02	0.01
3/21/23 7:30	0.911	34.15	17.82	5.082	29.02	0
3/21/23 7:45	0.677	26.03	10.69	5.091	29.02	0
3/21/23 8:00	0.85	39.14	19.52	5.416	29.02	0
3/21/23 8:15	1.297	17.7	21.7	5.725	29.02	0
3/21/23 8:30	1.478	23.15	14.54	6.287	29.02	0
3/21/23 8:45	2.163	27.03	14.92	6.437	29.02	0
3/21/23 9:00	1.949	349.8	19.32	6.335	29.02	0
3/21/23 9:15	1.99	5.804	22.48	6.567	29.02	0
3/21/23 9:30	2.201	358	19.16	6.847	29.02	0
3/21/23 9:45	2.689	23.15	7.715	6.786	29.02	0
3/21/23 10:00	3.217	13.05	8.32	6.814	29.02	0
3/21/23 10:15	3.879	15.89	12.71	7.054	29.01	0
3/21/23 10:30	3.332	8.72	24.4	7.434	29.01	0
3/21/23 10:45	1.687	11.59	10.69	7.677	29	0
3/21/23 11:00	3.997	7.895	33.74	8.23	29	0
3/21/23 11:15	6.014	10.09	15.83	8.48	28.99	0.03
3/21/23 11:30	5.907	14.09	15.62	8.74	28.99	0.14
3/21/23 11:45	5.664	12.91	16.78	9.06	28.98	0.05
3/21/23 12:00	6.683	7.239	13.52	8.87	28.98	0
3/21/23 12:15	5.192	15.49	11.74	9.1	28.97	0
3/21/23 12:30	4.771	19.91	13.7	9.41	28.97	0
3/21/23 12:45	3.91	6.348	21.04	10.15	28.96	0
3/21/23 13:00	4.523	16.48	17.66	10.09	28.96	0
3/21/23 13:15	4.873	19.77	14.71	10.33	28.95	0
3/21/23 13:30	5.284	15.74	13.96	10.36	28.94	0
3/21/23 13:45	5.88	24.07	10.43	10.29	28.94	0
3/21/23 14:00	5.75	19.2	12.81	10.44	28.93	0
3/21/23 14:15	5.558	21.22	11.4	10.95	28.93	0
3/21/23 14:30	5.461	26.23	10.94	11.1	28.93	0
3/21/23 14:45	3.965	11.3	17.63	11.69	28.92	0
3/21/23 15:00	4.951	22.48	15.65	11.73	28.92	0
3/21/23 15:15	4.562	13.42	16.97	11.67	28.92	0
3/21/23 15:30	4.505	18.09	15.37	12.03	28.91	0
3/21/23 15:45	3.738	8.9	26.04	12.23	28.91	0
3/21/23 16:00	5.02	24.14	11.19	12.02	28.91	0
3/21/23 16:15	4.182	16.31	14.64	11.92	28.9	0

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/21/23 16:30	4.385	15.92	17.42	11.87	28.9	0
3/21/23 16:45	3.319	16.78	22.01	12.06	28.9	0
3/21/23 17:00	4.388	14.15	16.85	11.81	28.9	0
3/21/23 17:15	3.788	11.57	13.61	11.66	28.9	0
3/21/23 17:30	4.371	7.11	20.89	11.48	28.9	0
3/21/23 17:45	3.269	11.12	24.53	11.34	28.9	0
3/21/23 18:00	3.822	2.085	17.62	11.14	28.9	0
3/21/23 18:15	4.497	359.4	19.49	10.75	28.9	0
3/21/23 18:30	3.928	350.7	15.1	10.36	28.9	0
3/21/23 18:45	3.879	358.5	17.26	10	28.9	0
3/21/23 19:00	3.328	19.38	14.11	9.59	28.9	0
3/21/23 19:15	4.803	21.16	10.34	9.51	28.91	0
3/21/23 19:30	4.752	27.69	9.97	9.21	28.91	0
3/21/23 19:45	4.51	26.25	10.7	8.91	28.91	0
3/21/23 20:00	4.626	22.43	10.81	8.72	28.91	0
3/21/23 20:15	4.964	24.42	10.35	8.55	28.91	0
3/21/23 20:30	4.691	24.44	9.18	8.52	28.91	0
3/21/23 20:45	4.389	23.27	10.75	8.28	28.92	0
3/21/23 21:00	4.426	26.16	10.34	8.13	28.92	0
3/21/23 21:15	4.748	25.41	9.81	7.96	28.92	0
3/21/23 21:30	4.06	27.89	11.69	7.683	28.93	0
3/21/23 21:45	4.272	28.04	9.01	7.434	28.93	0
3/21/23 22:00	4.243	31.13	8.29	7.284	28.93	0
3/21/23 22:15	3.382	23.8	11.68	6.988	28.93	0
3/21/23 22:30	3.692	32.31	8.27	6.691	28.93	0
3/21/23 22:45	4.614	36.2	8.83	6.691	28.93	0
3/21/23 23:00	4.991	39.1	9.33	6.63	28.93	0
3/21/23 23:15	5.325	34.92	8.46	6.516	28.93	0
3/21/23 23:30	4.626	38.44	10.5	6.314	28.93	0
3/21/23 23:45	4.267	36.21	9.21	6.08	28.93	0
3/22/23 0:00	3.725	36.84	9.74	5.821	28.93	0
3/22/23 0:15	2.333	39	10.81	5.3	28.93	0
3/22/23 0:30	1.435	16.25	11.02	5.038	28.93	0
3/22/23 0:45	1.416	25.62	16.33	5.059	28.93	0
3/22/23 1:00	1.109	53.48	25.88	4.639	28.94	0
3/22/23 1:15	1.067	79.55	13.49	3.934	28.94	0
3/22/23 1:30	1.345	64.64	20.27	3.815	28.94	0
3/22/23 1:45	1.655	51.12	12.46	3.725	28.94	0
3/22/23 2:00	1.412	73.51	13.79	3.361	28.94	0
3/22/23 2:15	1.043	74.47	16.87	3.349	28.94	0
3/22/23 2:30	0.429	116.4	57.05	3.972	28.95	0
3/22/23 2:45	1.509	169.8	12.87	3.978	28.95	0
3/22/23 3:00	0.796	133.4	11.43	3.587	28.95	0
3/22/23 3:15	1.11	90.9	15.55	3.185	28.95	0
3/22/23 3:30	1.861	107.5	14.28	2.852	28.95	0
3/22/23 3:45	1.578	117.3	12.54	3.453	28.94	0
3/22/23 4:00	1.791	81.4	17.78	2.988	28.94	0
3/22/23 4:15	1.174	56.98	14.68	2.91	28.94	0
3/22/23 4:30	0.728	64.01	6.586	3.051	28.95	0
3/22/23 4:45	1.036	53.29	4.716	2.753	28.95	0
3/22/23 5:00	1.544	29.07	8.59	1.535	28.95	0
3/22/23 5:15	1.443	16.32	3.583	1.349	28.95	0
3/22/23 5:30	1.442	13.39	3.214	2.276	28.95	0
3/22/23 5:45	1.024	41.81	20.54	1.723	28.96	0
3/22/23 6:00	1.6	47.56	7.118	1.395	28.96	0
3/22/23 6:15	1.173	41.75	3.36	1.998	28.96	0
3/22/23 6:30	1.167	45.37	8.16	1.922	28.96	0
3/22/23 6:45	1.655	48.99	6.124	1.282	28.97	0
3/22/23 7:00	1.448	43.5	14.93	1.781	28.97	0
3/22/23 7:15	1.825	35.98	6.913	2.339	28.97	0.01
3/22/23 7:30	1.444	26.44	8.04	3.552	28.97	0
3/22/23 7:45	1.051	49.1	16.22	4.146	28.97	0
3/22/23 8:00	0.574	39.54	6.641	4.71	28.98	0
3/22/23 8:15	0.802	58.86	15.21	4.491	28.98	0
3/22/23 8:30	0.629	66.08	19.98	5.224	28.98	0
3/22/23 8:45	0.334	16.88	32.35	6.51	28.98	0
3/22/23 9:00	0.625	74.56	38.38	7.247	28.98	0
3/22/23 9:15	0.822	56.68	14.56	7.04	28.98	0
3/22/23 9:30	0.643	353.8	35.47	7.749	28.99	0
3/22/23 9:45	0.874	22.55	39.31	8.2	28.99	0
3/22/23 10:00	0.794	63.74	25.09	8.63	28.99	0
3/22/23 10:15	0.619	312.6	50.01	9.54	28.99	0
3/22/23 10:30	0.739	1.039	47.88	10.1	28.98	0
3/22/23 10:45	1.239	354.4	43.24	10.83	28.98	0
3/22/23 11:00	1.024	324.3	57.37	11.34	28.98	0

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/22/23 11:15	0.874	301.1	43.75	11.44	28.98	0
3/22/23 11:30	2.107	292.9	18.84	11.98	28.98	0
3/22/23 11:45	1.873	280	16.6	11.92	28.98	0
3/22/23 12:00	1.707	268	28.64	12.24	28.98	0
3/22/23 12:15	2.409	285.6	13.26	12.49	28.98	0
3/22/23 12:30	1.764	301.2	27.33	12.84	28.98	0
3/22/23 12:45	2.438	280.1	40.7	13.15	28.98	0
3/22/23 13:00	2.319	276.3	27.38	13.34	28.98	0
3/22/23 13:15	2.404	259.3	27.01	13.73	28.98	0
3/22/23 13:30	1.635	285.7	41.25	14.22	28.97	0
3/22/23 13:45	2.062	265.5	21.2	14.19	28.97	0
3/22/23 14:00	2.43	259.5	29.29	14.58	28.97	0
3/22/23 14:15	2.636	278.1	20.5	14.55	28.97	0
3/22/23 14:30	2.424	257.1	24.7	14.71	28.97	0
3/22/23 14:45	2.11	253.3	47.71	14.74	28.97	0
3/22/23 15:00	2.565	253.9	16.62	14.91	28.97	0
3/22/23 15:15	2.67	253.2	16.75	15.26	28.97	0
3/22/23 15:30	3.12	249.9	15.81	15.1	28.97	0
3/22/23 15:45	2.596	273	21.62	15.32	28.97	0
3/22/23 16:00	2.631	263.2	24.4	15.45	28.97	0
3/22/23 16:15	2.102	299.8	33.87	15.56	28.97	0
3/22/23 16:30	2.425	282.4	18	15.51	28.97	0
3/22/23 16:45	2.047	301	15.28	15.5	28.97	0
3/22/23 17:00	3.242	222	14.57	15.35	28.97	0
3/22/23 17:15	3.639	226.4	9.98	15.09	28.97	0
3/22/23 17:30	3.383	220.9	6.431	14.67	28.97	0
3/22/23 17:45	3.144	236.1	10.38	14.51	28.97	0
3/22/23 18:00	3.313	255	6.05	14.01	28.97	0
3/22/23 18:15	2.659	247.6	5.08	13.52	28.98	0
3/22/23 18:30	2.365	240	5.823	13.2	28.98	0
3/22/23 18:45	1.339	218	10.7	13.36	28.98	0
3/22/23 19:00	1.213	219	7.574	13.25	28.98	0
3/22/23 19:15	1.309	224.5	6.999	13.01	28.98	0
3/22/23 19:30	2.654	240.1	11.41	12.54	28.99	0
3/22/23 19:45	3.357	257.4	12.48	11.92	28.99	0
3/22/23 20:00	2.956	262.6	11.52	11.52	29	0
3/22/23 20:15	1.123	275.3	18.72	11.36	29	0
3/22/23 20:30	0.316	30.66	22.98	11.16	29.01	0
3/22/23 20:45	0.16	291.5	39.83	11.04	29.02	0
3/22/23 21:00	3.191	197.6	17.99	10.64	29.03	0.01
3/22/23 21:15	2.747	174.5	8.38	9.48	29.03	0
3/22/23 21:30	2.698	179	10.14	9.17	29.04	0
3/22/23 21:45	3.162	224.9	22.28	9.25	29.05	0
3/22/23 22:00	4.589	238.7	8.91	8.88	29.05	0
3/22/23 22:15	4.283	250.6	9.52	8.08	29.06	0
3/22/23 22:30	3.941	250.6	8.81	7.647	29.06	0
3/22/23 22:45	2.385	244.2	13.84	7.472	29.07	0
3/22/23 23:00	3.065	219	9.41	7.476	29.07	0
3/22/23 23:15	5.792	212.4	10.56	7.101	29.07	0
3/22/23 23:30	4.872	203.2	10.11	6.829	29.08	0
3/22/23 23:45	4.228	203.3	14.81	6.758	29.08	0
3/23/23 0:00	4.019	201.5	13.85	6.726	29.09	0
3/23/23 0:15	4.751	217.3	9.98	6.669	29.09	0
3/23/23 0:30	5.307	218.6	7.881	6.553	29.09	0
3/23/23 0:45	5.921	213.6	10.7	6.47	29.09	0
3/23/23 1:00	5.118	205.3	10.91	6.381	29.1	0
3/23/23 1:15	4.444	201.6	16.07	6.298	29.1	0
3/23/23 1:30	3.385	182.1	13.07	6.194	29.1	0
3/23/23 1:45	3.683	169.5	13.01	6.076	29.1	0
3/23/23 2:00	3.416	157.4	13.41	5.888	29.1	0
3/23/23 2:15	3.229	171.6	9.28	5.938	29.1	0
3/23/23 2:30	3.682	181.3	9.94	6.044	29.1	0.01
3/23/23 2:45	3.602	175.9	13.61	6.043	29.1	0
3/23/23 3:00	3.331	170.4	12.38	6.034	29.1	0
3/23/23 3:15	2.906	175	9.64	6.077	29.1	0
3/23/23 3:30	3.058	170.7	9.88	5.991	29.1	0
3/23/23 3:45	3.907	183	12.31	6.099	29.1	0
3/23/23 4:00	4.123	191	13.35	6.102	29.1	0
3/23/23 4:15	4.384	198.9	9.1	6.045	29.1	0
3/23/23 4:30	4.872	209.5	8.49	5.919	29.1	0
3/23/23 4:45	5.239	206.3	8.7	5.61	29.1	0
3/23/23 5:00	5.352	209.5	8.04	5.397	29.1	0.01
3/23/23 5:15	4.075	209.1	8.18	5.297	29.1	0
3/23/23 5:30	3.732	211.2	8.66	5.328	29.1	0
3/23/23 5:45	3.588	209	8.35	5.377	29.11	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/23/23 6:00	4.461	208.8	9.36	5.445	29.11	0
3/23/23 6:15	3.924	192	11.03	5.455	29.11	0
3/23/23 6:30	3.747	192	7.813	5.524	29.11	0
3/23/23 6:45	3.558	188.1	8.36	5.587	29.11	0
3/23/23 7:00	3.631	179.8	7.4	5.677	29.11	0
3/23/23 7:15	3.653	183.9	9.88	5.745	29.11	0
3/23/23 7:30	3.273	171.6	9	5.73	29.11	0
3/23/23 7:45	3.712	173.7	8.22	5.778	29.11	0
3/23/23 8:00	4.397	200.7	14.57	5.739	29.11	0
3/23/23 8:15	4.083	204.6	19.2	5.81	29.1	0
3/23/23 8:30	3.563	189.7	10.29	6.098	29.1	0
3/23/23 8:45	3.513	186.2	16.49	6.152	29.1	0
3/23/23 9:00	2.901	174.9	13.97	6.373	29.1	0
3/23/23 9:15	3.847	186.3	16.24	6.741	29.1	0
3/23/23 9:30	4.615	196	11.44	6.957	29.09	0
3/23/23 9:45	4.024	200.6	11.86	7.18	29.09	0
3/23/23 10:00	4.047	186.7	14.05	7.41	29.08	0
3/23/23 10:15	3.991	189.4	14.47	7.575	29.08	0
3/23/23 10:30	3.803	188	10.09	7.958	29.08	0
3/23/23 10:45	5.118	179.9	15.42	8.19	29.07	0
3/23/23 11:00	4.412	203.6	12.39	8.32	29.07	0
3/23/23 11:15	6.148	194.3	13.49	8.05	29.07	0
3/23/23 11:30	4.921	207	11.76	7.658	29.07	0
3/23/23 11:45	6.215	203	14.62	7.664	29.06	0
3/23/23 12:00	6.093	202.3	9.48	7.936	29.05	0
3/23/23 12:15	7.432	199.7	11.18	8.09	29.05	0
3/23/23 12:30	5.456	176.5	27	7.698	29.06	0
3/23/23 12:45	6.12	178.3	19.48	7.933	29.05	0
3/23/23 13:00	8.46	207.2	31.68	7.684	29.04	0
3/23/23 13:15	10.19	249.3	8.29	3.391	29.06	0.02
3/23/23 13:30	6.154	229.2	12.03	3.134	29.08	0.02
3/23/23 13:45	3.224	178	21.34	3.336	29.09	0
3/23/23 14:00	3.64	147.8	11.98	3.394	29.1	0
3/23/23 14:15	4.907	151.2	11.41	3.767	29.1	0
3/23/23 14:30	4.447	170.9	13.48	4.211	29.1	0
3/23/23 14:45	3.388	190	10.58	4.772	29.11	0
3/23/23 15:00	4.352	176.4	12.71	4.947	29.11	0
3/23/23 15:15	5.308	167	12.39	5.157	29.11	0
3/23/23 15:30	5.86	178.6	10.06	5.608	29.11	0
3/23/23 15:45	6.061	186.5	11.26	6.02	29.1	0
3/23/23 16:00	7.703	195.4	10.01	6.239	29.1	0
3/23/23 16:15	6.85	193.8	8.36	6.338	29.1	0
3/23/23 16:30	7.302	192.8	11.25	6.271	29.11	0
3/23/23 16:45	7.224	197	13.69	5.778	29.11	0
3/23/23 17:00	9.04	208.6	8.94	4.666	29.12	0.02
3/23/23 17:15	6.777	196	12.15	4.174	29.14	0.01
3/23/23 17:30	7.194	201.3	12.74	4.218	29.15	0
3/23/23 17:45	7.744	197	9.12	3.8	29.15	0
3/23/23 18:00	7.49	187.8	9.74	3.649	29.16	0
3/23/23 18:15	8.01	181.3	8.45	3.602	29.16	0
3/23/23 18:30	7.089	186	11.81	3.62	29.17	0
3/23/23 18:45	7.265	188.9	9.38	3.551	29.17	0
3/23/23 19:00	6.92	188.2	11.65	3.497	29.18	0
3/23/23 19:15	7.38	187.8	9.07	3.388	29.18	0
3/23/23 19:30	6.353	190.5	9.52	3.229	29.19	0
3/23/23 19:45	6.258	196.7	10.26	3.119	29.19	0
3/23/23 20:00	5.513	172.2	11.7	3.027	29.2	0
3/23/23 20:15	6.241	172.4	10.48	2.833	29.21	0
3/23/23 20:30	5.568	171.1	10.24	2.693	29.21	0
3/23/23 20:45	5.549	166.6	10.66	2.591	29.22	0
3/23/23 21:00	5.257	164.9	9.96	2.501	29.22	0
3/23/23 21:15	4.872	182.2	10.33	2.654	29.22	0
3/23/23 21:30	3.915	161.8	11.69	2.634	29.22	0
3/23/23 21:45	4.157	172	12.06	2.719	29.22	0
3/23/23 22:00	5.182	182.5	8.55	2.987	29.23	0
3/23/23 22:15	5.911	185	7.507	3.055	29.23	0
3/23/23 22:30	5.376	186.7	7.851	2.989	29.23	0
3/23/23 22:45	5.079	187	8.98	2.618	29.23	0
3/23/23 23:00	2.803	160.6	15.27	2.294	29.23	0
3/23/23 23:15	2.499	152.6	11.45	2.345	29.23	0
3/23/23 23:30	2.992	173.1	8.65	2.558	29.24	0
3/23/23 23:45	2.77	170.7	12.67	2.529	29.24	0
3/24/23 0:00	3.623	185.2	8.65	2.87	29.24	0
3/24/23 0:15	3.364	176.7	11.01	2.78	29.24	0
3/24/23 0:30	1.658	155.2	14.57	2.456	29.25	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/24/23 0:45	2.522	173.6	7.798	2.445	29.25	0
3/24/23 1:00	3.75	187.9	6.721	2.715	29.24	0
3/24/23 1:15	3.507	188.8	6.351	2.755	29.24	0
3/24/23 1:30	2.946	188.5	9.02	2.804	29.25	0
3/24/23 1:45	3.205	194.7	9.77	2.747	29.24	0
3/24/23 2:00	3.698	202.7	12.32	2.543	29.24	0.01
3/24/23 2:15	3.165	177.6	9.91	2.452	29.24	0
3/24/23 2:30	2.97	171.9	12.97	2.374	29.24	0
3/24/23 2:45	3.435	183.1	10.02	2.373	29.23	0
3/24/23 3:00	3.513	186.6	9.54	2.375	29.23	0
3/24/23 3:15	3.543	185	8.58	2.38	29.23	0
3/24/23 3:30	4.276	186.8	12.45	2.292	29.23	0
3/24/23 3:45	4.413	185.8	8.83	1.96	29.23	0
3/24/23 4:00	2.817	169.1	20.9	1.487	29.23	0.01
3/24/23 4:15	2.049	130.4	7.534	1.212	29.24	0.01
3/24/23 4:30	1.787	108	16.27	1.114	29.24	0
3/24/23 4:45	1.802	134.8	26.21	1.123	29.24	0
3/24/23 5:00	2.965	170.7	20.83	1.453	29.24	0
3/24/23 5:15	3.725	180.7	11.09	1.52	29.24	0
3/24/23 5:30	3.509	187.1	12.43	1.616	29.24	0
3/24/23 5:45	4.074	189.1	8.96	1.727	29.25	0
3/24/23 6:00	4.957	197	8.64	1.754	29.25	0
3/24/23 6:15	4.822	191.1	8.81	1.774	29.25	0
3/24/23 6:30	4.792	183.4	9.2	1.755	29.26	0
3/24/23 6:45	4.25	181.7	10.06	1.686	29.26	0
3/24/23 7:00	4.534	182.8	8.65	1.782	29.26	0
3/24/23 7:15	4.625	181.1	10.2	1.857	29.27	0
3/24/23 7:30	4.99	177.2	8.42	1.893	29.27	0
3/24/23 7:45	4.451	180.8	11.05	1.909	29.28	0.01
3/24/23 8:00	3.993	172.4	10.87	1.785	29.28	0
3/24/23 8:15	3.424	161.1	7.8	1.791	29.29	0
3/24/23 8:30	3.674	159.3	6.707	1.839	29.29	0
3/24/23 8:45	3.401	157.1	8.7	2	29.3	0
3/24/23 9:00	3.303	148.6	8.92	2.126	29.3	0
3/24/23 9:15	3.874	160.5	12.03	2.534	29.31	0
3/24/23 9:30	4.265	170	16.69	3.043	29.31	0
3/24/23 9:45	5.059	185.9	10.22	3.267	29.31	0
3/24/23 10:00	5.087	195.3	11.81	3.557	29.32	0
3/24/23 10:15	6.286	196	8.86	3.748	29.32	0
3/24/23 10:30	5.305	199.8	11.67	4.051	29.32	0
3/24/23 10:45	5.776	203.6	11.84	4.283	29.32	0
3/24/23 11:00	6.435	211.3	13.42	4.359	29.32	0
3/24/23 11:15	6.186	203.1	9.79	4.672	29.32	0
3/24/23 11:30	5.79	207.5	13.23	4.965	29.32	0
3/24/23 11:45	6.883	202.9	9.86	5.319	29.31	0
3/24/23 12:00	6.494	220.6	14.14	5.577	29.31	0
3/24/23 12:15	7.699	216.6	12.68	5.942	29.31	0
3/24/23 12:30	8	205.7	10.14	6.094	29.31	0
3/24/23 12:45	8.96	216.3	6.695	5.77	29.3	0
3/24/23 13:00	7.713	213.5	9.92	5.787	29.31	0
3/24/23 13:15	7.572	209.6	11.96	5.785	29.31	0
3/24/23 13:30	7.802	206	8.35	6.355	29.3	0
3/24/23 13:45	6.915	202.7	12.07	6.066	29.3	0
3/24/23 14:00	7.489	213.7	17.66	5.61	29.3	0
3/24/23 14:15	5.725	223.2	15.56	4.533	29.31	0.02
3/24/23 14:30	5.821	198	11.4	5.053	29.31	0
3/24/23 14:45	7.949	190.3	11.58	5.389	29.31	0
3/24/23 15:00	6.733	195.3	10.05	5.286	29.32	0
3/24/23 15:15	7.76	206.4	11.92	5.13	29.31	0
3/24/23 15:30	7.206	212.6	9.35	4.972	29.32	0
3/24/23 15:45	7.398	212.7	11.87	5.094	29.32	0
3/24/23 16:00	6.236	193.4	12.63	4.994	29.32	0
3/24/23 16:15	5.7	165	10.43	4.359	29.32	0
3/24/23 16:30	5.077	169.4	14.35	4.372	29.32	0
3/24/23 16:45	4.388	173.3	16.13	4.554	29.32	0
3/24/23 17:00	5.892	193.6	11.79	4.872	29.32	0
3/24/23 17:15	5.577	195.8	11.4	4.843	29.32	0
3/24/23 17:30	6.156	200.6	10.49	4.716	29.32	0
3/24/23 17:45	6.514	199.6	10.42	4.64	29.32	0
3/24/23 18:00	6.75	192.4	8.51	4.608	29.32	0
3/24/23 18:15	5.811	200.5	9.88	4.583	29.32	0
3/24/23 18:30	8.18	219.9	9.38	4.431	29.32	0
3/24/23 18:45	6.059	224.9	8.22	4.354	29.33	0
3/24/23 19:00	7.344	224.8	9.42	4.321	29.33	0
3/24/23 19:15	6.299	229.4	8.51	4.041	29.33	0.01

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/24/23 19:30	5.296	225.2	9.48	4.003	29.34	0
3/24/23 19:45	5.285	213.2	10.04	3.877	29.35	0
3/24/23 20:00	5.488	211	8.32	3.672	29.35	0
3/24/23 20:15	5.188	208	9.42	3.582	29.35	0
3/24/23 20:30	5.377	204.2	8.22	3.486	29.36	0
3/24/23 20:45	6.185	199.2	10.46	3.373	29.36	0
3/24/23 21:00	5.192	197.3	9.54	3.266	29.37	0
3/24/23 21:15	4.814	197.2	10.81	3.218	29.38	0
3/24/23 21:30	5.286	197.7	10.52	3.109	29.38	0
3/24/23 21:45	4.205	196.5	10.79	3.022	29.39	0
3/24/23 22:00	3.19	195.8	11.76	2.958	29.39	0
3/24/23 22:15	3.004	192	14.57	2.915	29.39	0
3/24/23 22:30	2.485	202.3	18.06	2.898	29.39	0
3/24/23 22:45	2.744	201.6	13.68	2.877	29.39	0
3/24/23 23:00	2.869	199.1	10.01	2.835	29.39	0
3/24/23 23:15	3.101	200.4	13.33	2.761	29.39	0
3/24/23 23:30	3.673	197.6	7.934	2.728	29.39	0
3/24/23 23:45	4.358	191.2	7.603	2.563	29.4	0
3/25/23 0:00	4.601	196.3	8.62	2.411	29.4	0
3/25/23 0:15	4.112	203.6	11.22	2.292	29.4	0
3/25/23 0:30	3.159	205.4	7.98	2.276	29.4	0
3/25/23 0:45	3.779	198.5	7.494	2.188	29.4	0
3/25/23 1:00	3.76	194.4	8.87	2.088	29.4	0
3/25/23 1:15	2.945	192.3	8.78	2.033	29.4	0
3/25/23 1:30	3.14	189.9	9.49	1.945	29.4	0
3/25/23 1:45	2.593	189.9	14.32	1.927	29.4	0
3/25/23 2:00	2.683	182.1	13.97	1.935	29.4	0
3/25/23 2:15	2.942	191.9	8.64	1.864	29.39	0
3/25/23 2:30	2.692	189.7	8.38	1.831	29.39	0
3/25/23 2:45	2.426	186.8	12.29	1.826	29.39	0
3/25/23 3:00	2.646	185	9.96	1.815	29.39	0
3/25/23 3:15	3.732	186.5	8.68	1.748	29.39	0
3/25/23 3:30	3.451	191.2	8.99	1.607	29.4	0
3/25/23 3:45	3.081	198.4	8.25	1.587	29.4	0
3/25/23 4:00	2.951	195.6	8.62	1.559	29.4	0
3/25/23 4:15	4.01	196.5	6.155	1.508	29.4	0
3/25/23 4:30	3.9	196.6	8.18	1.481	29.4	0
3/25/23 4:45	3.394	199.3	9.15	1.444	29.41	0
3/25/23 5:00	2.776	190.9	9.16	1.413	29.41	0
3/25/23 5:15	2.324	184.6	9.89	1.42	29.41	0
3/25/23 5:30	2.67	175.5	15.87	1.351	29.41	0
3/25/23 5:45	2.668	178.2	10.9	1.288	29.41	0
3/25/23 6:00	2.913	180.3	11.39	1.27	29.41	0
3/25/23 6:15	1.922	165.5	15.04	1.142	29.42	0
3/25/23 6:30	1.788	142.5	10.26	1.105	29.42	0
3/25/23 6:45	1.89	145.2	7.928	1.15	29.42	0
3/25/23 7:00	1.662	139.7	10.03	1.217	29.42	0
3/25/23 7:15	1.84	157.6	16.73	1.337	29.42	0
3/25/23 7:30	1.725	170.2	21.55	1.484	29.43	0
3/25/23 7:45	1.95	177.1	13.71	1.585	29.43	0
3/25/23 8:00	1.692	181.4	13.95	1.719	29.43	0
3/25/23 8:15	1.775	181.5	22.61	1.772	29.43	0
3/25/23 8:30	2.012	194.7	16.19	2.079	29.44	0
3/25/23 8:45	2.493	163.2	17.88	2.336	29.44	0
3/25/23 9:00	2.53	157.1	15.17	3.047	29.44	0
3/25/23 9:15	2.992	154.9	17.68	3.47	29.44	0
3/25/23 9:30	3.769	216.7	13.87	3.253	29.44	0
3/25/23 9:45	4.263	195.5	17.72	3.691	29.43	0
3/25/23 10:00	3.793	171.9	16.77	4.123	29.43	0
3/25/23 10:15	3.329	192.2	14.94	4.138	29.43	0
3/25/23 10:30	3.722	189.5	17.5	4.341	29.43	0
3/25/23 10:45	4.073	197.5	13.12	4.163	29.43	0
3/25/23 11:00	2.941	204.4	14.27	4.46	29.43	0
3/25/23 11:15	2.979	207.8	16.71	4.696	29.43	0
3/25/23 11:30	3.611	246.1	20.2	4.862	29.43	0
3/25/23 11:45	3.587	241.9	18.19	4.821	29.43	0
3/25/23 12:00	3.241	241.6	19.01	5.04	29.43	0
3/25/23 12:15	3.027	250.7	19.28	5.392	29.42	0
3/25/23 12:30	2.54	219.6	18.52	5.408	29.42	0
3/25/23 12:45	2.717	292.1	22.92	5.241	29.42	0
3/25/23 13:00	2.089	280.7	18.11	5.615	29.42	0
3/25/23 13:15	2.651	289.9	36.53	6.101	29.41	0
3/25/23 13:30	2.611	249.2	17.84	6.238	29.41	0
3/25/23 13:45	2.701	271.9	22.69	5.832	29.41	0
3/25/23 14:00	2.08	272.3	21.48	5.964	29.41	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/25/23 14:15	2.669	269.6	15.28	5.925	29.4	0
3/25/23 14:30	1.026	316.6	37.81	6.242	29.4	0
3/25/23 14:45	1.689	6.268	18.51	6.278	29.4	0
3/25/23 15:00	1.085	7.607	19.07	6.646	29.39	0
3/25/23 15:15	1.629	206.5	40.44	7.633	29.39	0
3/25/23 15:30	1.402	177.5	47.21	7.48	29.39	0
3/25/23 15:45	2.178	306.4	50.39	7.73	29.39	0
3/25/23 16:00	2.097	241.1	40.44	8.03	29.39	0
3/25/23 16:15	1.421	67.28	86.3	7.811	29.39	0
3/25/23 16:30	1.173	332.2	49.25	7.224	29.38	0
3/25/23 16:45	1.613	261	18.9	7.724	29.38	0
3/25/23 17:00	0.766	322.1	51.99	8.24	29.38	0
3/25/23 17:15	2.179	309.3	35.74	7.637	29.38	0
3/25/23 17:30	3.048	256.5	23.45	7.607	29.38	0
3/25/23 17:45	3.149	257.4	14.97	7.278	29.38	0
3/25/23 18:00	2.996	250.9	15.79	7.002	29.38	0
3/25/23 18:15	2.527	276.1	12.65	6.528	29.39	0
3/25/23 18:30	2.045	269.8	9.33	6.102	29.39	0
3/25/23 18:45	1.516	282	7.141	5.849	29.39	0
3/25/23 19:00	1.511	267	8.96	5.633	29.39	0
3/25/23 19:15	2.287	244.5	5.226	5.327	29.39	0
3/25/23 19:30	3.081	245.5	5.919	4.944	29.4	0
3/25/23 19:45	2.536	235.9	6.208	4.723	29.4	0
3/25/23 20:00	1.922	213.9	8.71	4.57	29.4	0
3/25/23 20:15	1.673	200	12.21	4.379	29.41	0
3/25/23 20:30	2.338	195.7	7.207	4.021	29.41	0
3/25/23 20:45	2.802	191	7.292	3.842	29.41	0
3/25/23 21:00	2.683	155.7	12.29	3.363	29.42	0
3/25/23 21:15	2.625	150.7	11.41	3.396	29.42	0
3/25/23 21:30	2.268	133.2	9.56	3.399	29.42	0
3/25/23 21:45	1.938	137	11.17	3.354	29.42	0
3/25/23 22:00	2.476	146.8	7.366	3.367	29.42	0
3/25/23 22:15	2.496	147.2	6.822	3.36	29.42	0
3/25/23 22:30	2.806	149.2	10.08	3.358	29.42	0
3/25/23 22:45	2.723	155.6	8.44	3.32	29.42	0
3/25/23 23:00	2.316	157.4	14.78	3.315	29.42	0
3/25/23 23:15	2.389	165.2	12.33	3.346	29.42	0
3/25/23 23:30	2.095	143.2	8.94	3.331	29.43	0
3/25/23 23:45	2.457	149.2	9.31	3.32	29.43	0
3/26/23 0:00	2.559	150.6	7.2	3.151	29.43	0
3/26/23 0:15	2.333	148.1	7.468	2.888	29.43	0
3/26/23 0:30	2.478	148.7	7.154	2.841	29.43	0
3/26/23 0:45	2.341	147.4	7.433	2.883	29.43	0
3/26/23 1:00	2.736	150	5.324	3.005	29.43	0
3/26/23 1:15	2.563	166.3	12.25	2.972	29.43	0
3/26/23 1:30	3.262	181.5	6.063	2.981	29.43	0
3/26/23 1:45	3.418	182.2	6.55	2.889	29.43	0
3/26/23 2:00	3.616	181.1	6.144	2.774	29.43	0
3/26/23 2:15	3.297	178.1	8.4	2.756	29.43	0
3/26/23 2:30	3.081	175.5	9.27	2.459	29.43	0
3/26/23 2:45	2.762	167.6	7.899	2.19	29.43	0
3/26/23 3:00	3.051	153.1	5.814	1.929	29.43	0
3/26/23 3:15	2.661	146.5	6.974	1.927	29.44	0
3/26/23 3:30	2.395	145.5	7.162	2.145	29.44	0
3/26/23 3:45	2.546	147.7	7.36	2.286	29.44	0
3/26/23 4:00	2.19	143.8	8.36	2.167	29.44	0
3/26/23 4:15	1.766	133.3	6.1	2.055	29.44	0
3/26/23 4:30	1.922	138	6.138	2.212	29.44	0
3/26/23 4:45	2.151	142.9	7.23	2.307	29.44	0
3/26/23 5:00	2.191	142.2	6.73	2.467	29.44	0
3/26/23 5:15	1.814	132.5	6.837	2.492	29.44	0
3/26/23 5:30	1.446	137.2	7.716	2.386	29.44	0
3/26/23 5:45	1.007	144	6.024	2.091	29.44	0
3/26/23 6:00	1.119	139.1	13.53	2.162	29.44	0
3/26/23 6:15	1.513	135.1	5.86	2.153	29.44	0
3/26/23 6:30	1.499	142.5	7.296	2.2	29.44	0
3/26/23 6:45	1.307	140.7	13.58	2.508	29.44	0
3/26/23 7:00	1.247	143	12.42	2.636	29.44	0
3/26/23 7:15	0.978	135.2	14.93	2.727	29.44	0
3/26/23 7:30	0.705	145.2	37.61	2.903	29.45	0
3/26/23 7:45	0.321	66.64	7.47	3.104	29.45	0
3/26/23 8:00	0.798	32.63	13.65	3.267	29.45	0
3/26/23 8:15	1.003	22.63	8.28	3.455	29.45	0
3/26/23 8:30	1.091	20.33	11.47	3.857	29.45	0
3/26/23 8:45	1.094	53.48	36.85	4.349	29.46	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/26/23 9:00	1.345	64.62	31.56	4.735	29.46	0
3/26/23 9:15	1.522	61.87	24.69	4.88	29.46	0
3/26/23 9:30	1.289	214.6	52.29	5.107	29.46	0
3/26/23 9:45	1.156	216.6	40.95	5.169	29.46	0
3/26/23 10:00	2.008	177.9	32.19	5.345	29.46	0
3/26/23 10:15	2.34	194.5	21.72	5.285	29.46	0
3/26/23 10:30	2.006	227.9	32.93	5.552	29.46	0
3/26/23 10:45	2.554	204.6	16.41	5.751	29.46	0
3/26/23 11:00	2.406	225.7	19.55	5.784	29.46	0
3/26/23 11:15	1.936	239.9	32.11	6.154	29.46	0
3/26/23 11:30	2.438	210.8	36.37	6.571	29.45	0
3/26/23 11:45	0.864	215.2	54.39	6.293	29.45	0
3/26/23 12:00	2.811	192	28.63	6.303	29.45	0
3/26/23 12:15	2.507	212	38.75	6.578	29.45	0
3/26/23 12:30	1.922	220	18.33	6.49	29.45	0
3/26/23 12:45	2.872	200.7	19.03	6.504	29.45	0
3/26/23 13:00	1.929	237.2	31.41	6.918	29.45	0
3/26/23 13:15	2.463	265.4	39.67	7.598	29.44	0
3/26/23 13:30	2.193	232.1	43.04	7.355	29.44	0
3/26/23 13:45	2.506	243.1	19.25	7.77	29.44	0
3/26/23 14:00	2.979	180.7	22.64	7.367	29.44	0
3/26/23 14:15	3.663	221.4	22.37	7.347	29.44	0
3/26/23 14:30	2.299	233.3	26.31	7.639	29.44	0
3/26/23 14:45	1.695	225.4	36.16	7.307	29.44	0
3/26/23 15:00	2.541	254.4	17.16	7.471	29.44	0
3/26/23 15:15	2.268	201	17.93	7.41	29.44	0
3/26/23 15:30	2.215	194.8	13.83	7.54	29.44	0
3/26/23 15:45	4.132	217.1	20.35	8.02	29.43	0
3/26/23 16:00	3.241	234.4	14.58	7.799	29.44	0
3/26/23 16:15	3.179	248.5	12.38	7.899	29.44	0
3/26/23 16:30	3.534	242.9	9.19	7.338	29.43	0
3/26/23 16:45	4.656	242.5	5.822	6.798	29.43	0
3/26/23 17:00	4.787	241	8.68	6.393	29.44	0
3/26/23 17:15	5.715	228.2	7.598	5.477	29.44	0
3/26/23 17:30	4.973	249.2	8.52	4.671	29.45	0.02
3/26/23 17:45	3.286	244.4	19.95	3.928	29.46	0.04
3/26/23 18:00	1.379	172.9	50.39	3.131	29.46	0.02
3/26/23 18:15	2.362	63.26	9.11	2.944	29.46	0
3/26/23 18:30	1.263	63.04	9.48	2.895	29.46	0
3/26/23 18:45	0.71	103.8	28.66	2.864	29.46	0
3/26/23 19:00	1.023	142.4	16.6	2.908	29.46	0
3/26/23 19:15	1.761	144.8	10.67	2.784	29.46	0.01
3/26/23 19:30	2.275	141.9	8.92	2.869	29.46	0
3/26/23 19:45	1.94	135.4	6.545	2.749	29.47	0
3/26/23 20:00	2.568	132.2	7.904	2.614	29.47	0
3/26/23 20:15	2.634	147	6.267	2.48	29.47	0
3/26/23 20:30	2.347	149.8	5.643	2.312	29.48	0
3/26/23 20:45	2.061	141.6	4.955	2.478	29.48	0
3/26/23 21:00	2.123	147.3	4.017	2.468	29.48	0
3/26/23 21:15	2.305	145.5	4.365	2.56	29.48	0
3/26/23 21:30	1.723	126.3	6.453	2.452	29.48	0
3/26/23 21:45	1.643	120.6	9.94	2.472	29.48	0
3/26/23 22:00	1.554	116.2	7.009	2.066	29.48	0
3/26/23 22:15	1.701	119.1	6.174	2.236	29.48	0
3/26/23 22:30	1.637	123.3	3.208	2.699	29.48	0
3/26/23 22:45	1.325	127.8	8.08	2.97	29.48	0
3/26/23 23:00	1.408	153.6	10.61	2.618	29.48	0
3/26/23 23:15	1.207	141.8	13.12	2.521	29.48	0
3/26/23 23:30	1.264	131.5	14.2	2.14	29.48	0
3/26/23 23:45	1.482	122.6	12.28	2.163	29.48	0
3/27/23 0:00	1.367	126.2	9.18	2.216	29.48	0
3/27/23 0:15	0.992	96.6	15.34	1.761	29.48	0
3/27/23 0:30	1.206	66.39	10.33	1.628	29.48	0
3/27/23 0:45	1.25	54.64	7.779	1.93	29.48	0
3/27/23 1:00	0.879	60.8	7.742	2.062	29.48	0
3/27/23 1:15	1.174	49.56	7.854	2.099	29.48	0
3/27/23 1:30	1.25	47.68	8.89	2.201	29.48	0
3/27/23 1:45	0.753	74.58	10	2.34	29.48	0
3/27/23 2:00	0.389	62.86	0.308	2.563	29.48	0
3/27/23 2:15	0.514	62.17	0.192	2.726	29.48	0
3/27/23 2:30	0.123	63.26	2.705	2.593	29.47	0
3/27/23 2:45	0.492	129.3	17.77	2.361	29.47	0
3/27/23 3:00	0.844	124.6	6.043	2.35	29.47	0
3/27/23 3:15	0.763	133.4	17.31	2.597	29.47	0
3/27/23 3:30	0.853	115.4	17.13	2.205	29.46	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/27/23 3:45	0.641	99.2	21.02	1.205	29.46	0
3/27/23 4:00	0.867	92.4	16.25	1.48	29.46	0
3/27/23 4:15	0.938	79.11	20.51	1.146	29.45	0
3/27/23 4:30	0.497	53.81	6.504	0.994	29.45	0
3/27/23 4:45	1.647	32.29	7.514	0.626	29.45	0
3/27/23 5:00	2.265	28.84	7.157	0.17	29.44	0
3/27/23 5:15	1.956	22.25	5.539	-0.084	29.44	0
3/27/23 5:30	1.724	39.04	8.09	-0.139	29.44	0
3/27/23 5:45	1.471	51.02	7.179	-0.154	29.44	0
3/27/23 6:00	1.352	48.03	8.41	-0.229	29.43	0
3/27/23 6:15	0.934	83.4	39.08	-0.367	29.43	0
3/27/23 6:30	0.588	88.2	25.82	0.363	29.43	0
3/27/23 6:45	0.67	64.99	5.547	0.03	29.43	0
3/27/23 7:00	0.346	51.4	13.55	0.059	29.43	0
3/27/23 7:15	0.758	9.84	9.04	0.247	29.42	0
3/27/23 7:30	0.964	38.41	7.447	0.496	29.42	0
3/27/23 7:45	1.506	38.16	11.16	0.714	29.42	0
3/27/23 8:00	1.875	33.94	10.77	0.719	29.41	0
3/27/23 8:15	2.837	33.3	12.06	0.935	29.4	0
3/27/23 8:30	2.91	39.47	10.35	1.557	29.4	0
3/27/23 8:45	2.466	32.29	13.52	2.474	29.39	0
3/27/23 9:00	1.571	0.388	21.08	3.339	29.39	0
3/27/23 9:15	0.83	273.1	45.2	4.728	29.39	0
3/27/23 9:30	0.843	350.9	84.5	5.797	29.39	0
3/27/23 9:45	0.868	32.98	26.83	6.365	29.38	0
3/27/23 10:00	1.183	22.93	32.13	6.808	29.38	0
3/27/23 10:15	1.796	36.5	23.27	6.951	29.38	0
3/27/23 10:30	2.205	29.37	18.23	7.386	29.38	0
3/27/23 10:45	2.237	34.05	22.18	7.927	29.37	0
3/27/23 11:00	2.01	18.27	15.93	8.28	29.37	0
3/27/23 11:15	2.401	17.9	20.86	8.94	29.36	0
3/27/23 11:30	2.529	18.86	20.18	9.59	29.36	0
3/27/23 11:45	2.62	43.6	26.48	10.05	29.35	0
3/27/23 12:00	3.634	89	25.87	10.97	29.34	0
3/27/23 12:15	4.353	104.6	28.59	11.04	29.33	0
3/27/23 12:30	4.779	102.9	19.96	11.24	29.32	0
3/27/23 12:45	5.2	84.5	18.4	11.35	29.32	0
3/27/23 13:00	4.034	102.3	14.67	11.24	29.31	0
3/27/23 13:15	5.69	112.7	21.95	11.68	29.3	0
3/27/23 13:30	5.467	104.5	16.87	11.36	29.29	0
3/27/23 13:45	5.704	104.4	20.33	11.97	29.29	0
3/27/23 14:00	5.967	98.1	14.78	11.58	29.28	0
3/27/23 14:15	5.93	102.3	19.62	11.21	29.28	0
3/27/23 14:30	5.49	115.6	15.75	11.53	29.27	0
3/27/23 14:45	6.106	104.6	15.69	11.8	29.27	0
3/27/23 15:00	5.366	114.6	19.66	11.74	29.26	0
3/27/23 15:15	5.043	112.3	11.65	11.97	29.25	0
3/27/23 15:30	5.712	103.5	13.56	11.97	29.25	0
3/27/23 15:45	5.359	120.4	14.01	11.9	29.24	0
3/27/23 16:00	5.929	111.4	16.18	11.87	29.24	0
3/27/23 16:15	7.08	115.7	13.7	11.76	29.23	0
3/27/23 16:30	4.974	105.9	18.77	11.6	29.23	0
3/27/23 16:45	5.183	111.4	14.36	11.26	29.23	0
3/27/23 17:00	4.91	113.5	17.05	11	29.23	0
3/27/23 17:15	5.16	101.1	15.53	10.82	29.22	0
3/27/23 17:30	5.504	98.1	14.89	10.61	29.22	0
3/27/23 17:45	5.313	101.6	16.97	10.34	29.22	0
3/27/23 18:00	4.988	103.3	16.53	10.02	29.21	0
3/27/23 18:15	6.314	109.4	15.53	9.8	29.21	0
3/27/23 18:30	5.328	116.9	14.39	9.55	29.21	0
3/27/23 18:45	4.397	109.4	13.08	9.34	29.2	0
3/27/23 19:00	4.499	111.9	15.71	9.27	29.19	0
3/27/23 19:15	5.935	105.3	17.61	9.34	29.19	0
3/27/23 19:30	7.691	110.4	16.82	9.41	29.18	0
3/27/23 19:45	6.48	106.9	17.46	9.44	29.17	0
3/27/23 20:00	6.357	108.7	14.93	9.4	29.16	0
3/27/23 20:15	4.919	99.2	18.52	9.35	29.16	0
3/27/23 20:30	3.847	100.6	22.66	9.19	29.15	0
3/27/23 20:45	3.518	93.5	15.98	9.1	29.15	0
3/27/23 21:00	4.9	101.7	16.71	9.11	29.15	0
3/27/23 21:15	5.76	98	17.97	9.19	29.14	0
3/27/23 21:30	5.333	94.7	14.55	9.21	29.14	0
3/27/23 21:45	5.359	93.4	19.85	9.28	29.13	0
3/27/23 22:00	5.923	104.7	17.25	9.48	29.13	0
3/27/23 22:15	6.232	105.2	15.92	9.6	29.12	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/27/23 22:30	7.921	108.2	14.76	9.91	29.12	0
3/27/23 22:45	8.21	110.2	15.62	10	29.11	0
3/27/23 23:00	8.25	101.5	16.13	9.96	29.11	0
3/27/23 23:15	7.577	99.2	17.14	9.9	29.11	0
3/27/23 23:30	8.8	97.2	17.22	9.99	29.1	0
3/27/23 23:45	7.939	106	17.47	9.95	29.09	0
3/28/23 0:00	6.981	109.7	13.49	9.92	29.09	0
3/28/23 0:15	7.891	105.8	17.64	10.03	29.08	0
3/28/23 0:30	8.01	104.7	16.27	10.09	29.08	0
3/28/23 0:45	6.481	107.5	20.08	10.02	29.07	0
3/28/23 1:00	5.891	116.3	14.54	9.98	29.07	0
3/28/23 1:15	5.088	118.3	13.43	9.84	29.06	0
3/28/23 1:30	5.567	106.1	16.28	9.85	29.06	0
3/28/23 1:45	6.272	117.8	12.83	9.76	29.06	0
3/28/23 2:00	7.481	123.9	15.03	9.85	29.06	0
3/28/23 2:15	5.977	125.3	15.57	9.74	29.06	0
3/28/23 2:30	5.485	111.5	19.91	9.7	29.06	0
3/28/23 2:45	5.642	114.1	14.81	9.65	29.06	0
3/28/23 3:00	3.668	116.3	15.14	9.47	29.05	0
3/28/23 3:15	4.111	100.1	18.45	9.49	29.04	0
3/28/23 3:30	4.368	91.2	22.26	9.38	29.04	0
3/28/23 3:45	6.056	96.2	16.69	9.3	29.03	0
3/28/23 4:00	6.487	104.7	16.32	9.24	29.03	0
3/28/23 4:15	6.699	112.8	19.15	9.24	29.02	0
3/28/23 4:30	7.758	108.1	20.94	9.23	29.02	0
3/28/23 4:45	5.34	101.7	17.18	9.04	29.02	0
3/28/23 5:00	6.864	120.7	17.87	9.02	29.02	0
3/28/23 5:15	4.813	118.1	20.14	8.82	29.03	0
3/28/23 5:30	5.944	122.7	14.84	8.81	29.02	0
3/28/23 5:45	5.163	107.6	24.1	8.75	29.03	0
3/28/23 6:00	4.563	102.8	21.5	8.7	29.02	0
3/28/23 6:15	3.907	114.1	25.99	8.66	29.02	0
3/28/23 6:30	3.291	88.5	24.64	8.87	29.02	0
3/28/23 6:45	3.246	82.1	21.12	9.01	29.02	0
3/28/23 7:00	4.452	86.7	21.61	9.08	29.01	0
3/28/23 7:15	5.06	97.4	16.09	9.38	29.01	0
3/28/23 7:30	6.024	102.5	22.13	9.66	29	0
3/28/23 7:45	3.927	86.9	30.72	9.78	28.99	0
3/28/23 8:00	1.512	6.046	28.31	8.51	28.99	0
3/28/23 8:15	1.568	14.73	24.95	8.88	28.99	0
3/28/23 8:30	1.68	74.27	48.36	9.4	29	0
3/28/23 8:45	2.024	60.55	41.91	9.1	29	0
3/28/23 9:00	3.157	53.83	25.15	9.38	28.99	0
3/28/23 9:15	2.986	92.8	24.64	10.33	28.99	0
3/28/23 9:30	5.028	117.9	17.85	10.74	28.99	0
3/28/23 9:45	5.674	119.7	16.45	10.8	28.99	0
3/28/23 10:00	5.43	111	19.52	10.89	28.99	0
3/28/23 10:15	6.341	106.7	18.08	10.95	28.99	0
3/28/23 10:30	5.671	111.4	16.67	11.08	28.98	0
3/28/23 10:45	5.4	115.1	15.45	11.58	28.98	0
3/28/23 11:00	6.106	103.9	15.25	11.78	28.97	0
3/28/23 11:15	4.387	102.4	19.63	12.1	28.97	0
3/28/23 11:30	4.609	103.2	19.31	12.34	28.97	0
3/28/23 11:45	5.643	96.6	19.44	12.37	28.97	0
3/28/23 12:00	5.682	110.4	21.07	12.25	28.96	0
3/28/23 12:15	7.265	109.9	13.13	12.4	28.96	0
3/28/23 12:30	4.836	108	20.29	12.4	28.96	0
3/28/23 12:45	3.197	99.3	16.05	12.67	28.96	0
3/28/23 13:00	2.925	103.8	26.05	12.96	28.96	0
3/28/23 13:15	4.091	107.7	20.9	12.63	28.96	0
3/28/23 13:30	4.463	97.5	21.16	12.51	28.96	0
3/28/23 13:45	4.209	108.7	24.81	12.59	28.96	0
3/28/23 14:00	5.307	125.1	16.22	12.39	28.95	0
3/28/23 14:15	4.523	114.2	15.03	12.35	28.95	0
3/28/23 14:30	5.012	116.2	12.1	12.33	28.95	0
3/28/23 14:45	4.138	106.2	15.92	12.27	28.95	0
3/28/23 15:00	3.471	114.9	15.13	12.26	28.95	0
3/28/23 15:15	2.762	111.1	15.09	12.23	28.95	0
3/28/23 15:30	3.288	98.6	16.46	12.27	28.96	0
3/28/23 15:45	1.99	86.4	18.41	12.19	28.95	0
3/28/23 16:00	1.347	58.73	19.83	12.06	28.95	0
3/28/23 16:15	1.203	37.37	14.63	11.84	28.95	0
3/28/23 16:30	1.074	24.77	13.45	11.66	28.95	0
3/28/23 16:45	0.668	97	15.49	11.61	28.96	0
3/28/23 17:00	0.841	86.8	32.82	11.79	28.96	0

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/28/23 17:15	2.175	50.42	8.59	11.6	28.96	0
3/28/23 17:30	2.265	30.34	10.06	11.16	28.96	0
3/28/23 17:45	1.636	19.96	10.75	11.02	28.97	0
3/28/23 18:00	1.134	21.06	9.99	10.8	28.97	0
3/28/23 18:15	1.061	22.48	10.23	10.83	28.97	0
3/28/23 18:30	0.821	30.95	12.12	10.77	28.97	0
3/28/23 18:45	0.868	60.88	9.82	10.48	28.98	0
3/28/23 19:00	1.185	52.81	13.64	10.35	28.98	0
3/28/23 19:15	1.164	32.45	17.47	10.16	28.98	0
3/28/23 19:30	1.243	67.37	16.18	10.44	28.98	0
3/28/23 19:45	0.868	58.28	24.26	10.27	28.99	0
3/28/23 20:00	1.404	42.57	13.57	9.74	29	0
3/28/23 20:15	1.657	100.6	56.45	9.72	29	0
3/28/23 20:30	2.743	143.3	14.32	9.82	29	0
3/28/23 20:45	3.025	136.4	8.1	9.77	29.01	0
3/28/23 21:00	2.71	128.1	10.89	9.7	29.01	0
3/28/23 21:15	2.478	128.1	15	9.57	29.01	0
3/28/23 21:30	2.634	145.9	8.72	9.24	29.01	0
3/28/23 21:45	2.051	150.3	14.9	9.08	29.01	0
3/28/23 22:00	2.075	138	14.79	8.92	29	0
3/28/23 22:15	2.033	113.5	13.67	8.72	29.01	0
3/28/23 22:30	2.742	127.5	9.38	8.61	29.01	0
3/28/23 22:45	1.973	109.2	11.56	8.69	29	0
3/28/23 23:00	1.872	110.1	8.51	8.75	29	0
3/28/23 23:15	2.285	127.9	5.032	8.82	29	0
3/28/23 23:30	1.205	60.74	46.11	8.13	29	0
3/28/23 23:45	0.991	54.6	14.38	7.639	28.99	0
3/29/23 0:00	1.11	96.3	34.22	7.912	29	0
3/29/23 0:15	0.804	223.4	19.08	7.904	28.99	0
3/29/23 0:30	0.276	56.55	45.86	8.39	28.99	0
3/29/23 0:45	0.554	346.3	16.52	8.04	28.99	0
3/29/23 1:00	1.301	31.87	10.84	7.789	28.99	0
3/29/23 1:15	1.818	32.56	18.15	6.707	28.99	0
3/29/23 1:30	1.557	35.89	11.58	6.122	28.99	0
3/29/23 1:45	1.141	40.14	12.48	6.369	28.99	0
3/29/23 2:00	1.751	29.58	5.637	6.701	28.99	0
3/29/23 2:15	1.44	38.73	5.721	6.684	28.98	0
3/29/23 2:30	1.627	37.19	10.72	6.518	28.98	0
3/29/23 2:45	1.661	8.52	4.599	6.91	28.97	0
3/29/23 3:00	1.172	29.43	9.17	6.532	28.97	0
3/29/23 3:15	1.087	36.08	8.65	6.416	28.97	0
3/29/23 3:30	0.772	50.32	5.366	6.942	28.98	0
3/29/23 3:45	0.941	53.09	6.633	7.332	28.98	0
3/29/23 4:00	1.176	73.37	14.22	7.21	28.98	0
3/29/23 4:15	0.993	25.31	13.94	7.885	28.98	0
3/29/23 4:30	1.21	354.4	11.66	7.705	28.98	0
3/29/23 4:45	1.277	355.8	15.69	7.787	28.98	0
3/29/23 5:00	1.181	353.7	16.81	6.49	28.98	0
3/29/23 5:15	1.099	343.3	16.92	6.382	28.98	0
3/29/23 5:30	1.094	354.4	26.93	6.969	28.98	0
3/29/23 5:45	0.99	59.21	36.08	5.017	28.99	0
3/29/23 6:00	1.171	147.7	18.16	5.233	28.99	0
3/29/23 6:15	0.362	70.74	25.38	6.079	28.99	0
3/29/23 6:30	1.713	60.9	11.81	3.915	29	0
3/29/23 6:45	2.553	24.35	13.85	4.046	29	0
3/29/23 7:00	1.585	46.49	14.09	4.142	29	0
3/29/23 7:15	2.101	11.98	15.88	4.611	29.01	0
3/29/23 7:30	2.367	5.695	16.5	6.458	29.01	0
3/29/23 7:45	2.334	5.149	15.85	6.567	29.01	0
3/29/23 8:00	3.302	26.31	11.2	7.136	29.01	0
3/29/23 8:15	3.619	21.35	10.3	7.755	29	0
3/29/23 8:30	3.028	22.09	14.08	7.912	29	0
3/29/23 8:45	3.29	27.72	10.53	8.43	29	0
3/29/23 9:00	2.456	19.26	14.22	8.91	29	0
3/29/23 9:15	3.149	27.99	9.1	8.99	29	0
3/29/23 9:30	2.567	30.58	9.85	9.26	29	0
3/29/23 9:45	3.121	28.72	10.07	9.62	29	0
3/29/23 10:00	3.154	24.75	15.1	10.3	29	0
3/29/23 10:15	3.074	38.31	19.61	10.67	29	0
3/29/23 10:30	3.36	25.92	12.81	10.76	29	0
3/29/23 10:45	2.575	37.12	18.77	11.2	29	0
3/29/23 11:00	2.922	42.28	14.46	10.87	29	0
3/29/23 11:15	2.485	23.71	17.18	10.98	29	0
3/29/23 11:30	1.183	8.25	37.33	11.55	29	0
3/29/23 11:45	0.87	305.1	58.41	11.9	29	0

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/29/23 12:00	0.917	282.5	17.13	12.2	29	0
3/29/23 12:15	2.159	299	15.72	12.42	29	0
3/29/23 12:30	2.182	315.3	39.66	12.52	29	0
3/29/23 12:45	1.762	324.4	26.52	12.85	29	0
3/29/23 13:00	2.215	302.7	26.99	12.92	28.99	0
3/29/23 13:15	2.68	310.4	29.79	13.64	28.99	0
3/29/23 13:30	3.173	304	23.33	13.81	28.99	0
3/29/23 13:45	2.438	299.2	24.86	13.3	28.98	0
3/29/23 14:00	2.864	306.2	16.68	13.25	28.98	0
3/29/23 14:15	2.337	291.6	13.88	13.3	28.98	0
3/29/23 14:30	2.967	278.4	17.56	13.42	28.97	0
3/29/23 14:45	2.669	307	20.53	13.61	28.97	0
3/29/23 15:00	2.105	295.5	29.97	13.84	28.97	0
3/29/23 15:15	2.392	294.1	15.96	13.82	28.96	0
3/29/23 15:30	2.545	286.6	28.39	14.15	28.96	0
3/29/23 15:45	3.773	255.8	10.58	13.91	28.95	0
3/29/23 16:00	3.728	268.1	19.52	14.24	28.95	0
3/29/23 16:15	4.063	260	13.44	14.07	28.95	0
3/29/23 16:30	4.014	260.5	10.73	14.01	28.95	0
3/29/23 16:45	4.066	260.7	11.34	13.95	28.94	0
3/29/23 17:00	3.315	272.3	13.28	13.82	28.94	0
3/29/23 17:15	3.387	294.5	11.23	13.69	28.94	0
3/29/23 17:30	3.24	305.7	10.63	13.32	28.94	0
3/29/23 17:45	2.554	304.4	7.69	13.11	28.94	0
3/29/23 18:00	2.328	311.9	5.079	12.86	28.94	0
3/29/23 18:15	1.989	310.8	4.878	12.64	28.94	0
3/29/23 18:30	2.769	314.6	7.108	12.06	28.94	0
3/29/23 18:45	2.929	11.59	20.35	11.19	28.95	0
3/29/23 19:00	2.971	13.32	9.74	10.83	28.95	0
3/29/23 19:15	2.67	18.66	8.65	10.8	28.95	0
3/29/23 19:30	2.264	20.29	8.15	10.84	28.95	0
3/29/23 19:45	1.867	17.54	7.905	10.79	28.95	0
3/29/23 20:00	0.829	29.49	13.51	10.76	28.95	0
3/29/23 20:15	0.231	36.69	5.266	10.45	28.96	0
3/29/23 20:30	0.364	197.7	24.58	10.57	28.96	0
3/29/23 20:45	0.986	177.4	16.45	10.08	28.96	0
3/29/23 21:00	2.142	193.2	9.86	9.61	28.96	0
3/29/23 21:15	2.853	197.1	9.2	8.61	28.96	0
3/29/23 21:30	2.784	187.4	8.56	8.18	28.96	0
3/29/23 21:45	1.033	168.5	29.17	8.1	28.97	0
3/29/23 22:00	0.787	70.21	80.1	7.282	28.97	0
3/29/23 22:15	2.134	194.9	15.18	7.209	28.98	0
3/29/23 22:30	1.435	119.9	21.05	7.006	28.98	0
3/29/23 22:45	1.415	110.4	14.42	6.479	28.98	0
3/29/23 23:00	1.9	116.6	7.503	6.62	28.98	0
3/29/23 23:15	2.34	122.5	9.86	7.058	28.99	0
3/29/23 23:30	3.242	132.2	6.166	7.242	28.98	0
3/29/23 23:45	2.989	124.4	9.86	7.165	28.99	0
3/30/23 0:00	2.368	137.7	7.342	6.923	28.99	0
3/30/23 0:15	1.938	125.9	10.76	6.961	28.99	0
3/30/23 0:30	2.182	124.7	8.56	6.936	28.99	0
3/30/23 0:45	1.719	116.2	8.09	7.245	28.98	0
3/30/23 1:00	1.45	108.9	12.79	7.316	28.98	0
3/30/23 1:15	1.418	105.1	8.98	7.64	28.98	0
3/30/23 1:30	1.593	118.6	5.44	7.89	28.98	0
3/30/23 1:45	1.928	152.4	17	7.631	28.98	0
3/30/23 2:00	2.153	179	9.44	7.621	28.98	0
3/30/23 2:15	0.807	161.7	32.81	7.594	28.98	0
3/30/23 2:30	0.689	162.4	46.61	7.663	28.97	0
3/30/23 2:45	1.211	238	14.26	7.681	28.97	0
3/30/23 3:00	1.284	205.5	19.29	7.25	28.97	0
3/30/23 3:15	1.632	168.7	19.87	6.111	28.98	0
3/30/23 3:30	1.861	147.6	13.22	5.994	28.97	0
3/30/23 3:45	2.391	142.1	16.09	6.135	28.97	0
3/30/23 4:00	1.676	122.5	10.34	6.219	28.97	0
3/30/23 4:15	2.02	132.8	11.1	6.322	28.97	0
3/30/23 4:30	2.319	127.9	7.99	6.776	28.97	0
3/30/23 4:45	2.157	146.7	13.75	6.585	28.97	0
3/30/23 5:00	2.257	147.4	8.78	6.443	28.97	0
3/30/23 5:15	2.353	178.9	8.82	6.343	28.98	0
3/30/23 5:30	2.214	175.7	7.423	6.137	28.98	0
3/30/23 5:45	2.082	180.9	13.88	6.067	28.98	0
3/30/23 6:00	2.222	179.7	11.79	5.903	28.98	0
3/30/23 6:15	1.89	166.8	13.46	5.757	28.98	0
3/30/23 6:30	2.25	185.7	12.62	5.721	28.98	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/30/23 6:45	3.045	185.9	9.18	5.527	28.99	0
3/30/23 7:00	3.507	170	10.94	5.358	28.99	0
3/30/23 7:15	3.451	165.1	13.21	5.342	28.99	0
3/30/23 7:30	3.612	180.9	14.19	5.657	29	0
3/30/23 7:45	3.198	173.5	20.58	6.067	29	0
3/30/23 8:00	3.985	173.3	15.69	6.18	29	0
3/30/23 8:15	4.69	163.5	13.32	6.324	29	0
3/30/23 8:30	4.877	174.5	10.92	6.502	29	0
3/30/23 8:45	4.087	177.5	13.92	6.464	29.01	0
3/30/23 9:00	4.194	188.3	13.81	6.312	29.01	0
3/30/23 9:15	4.861	204.9	10.72	6.207	29.01	0
3/30/23 9:30	5.893	209.1	8.49	6.278	29.01	0
3/30/23 9:45	5.728	197	9.14	6.416	29.01	0
3/30/23 10:00	5.2	196.2	11.32	6.781	29.01	0
3/30/23 10:15	4.403	185.4	11.94	7.332	29.02	0
3/30/23 10:30	3.752	174	18.99	7.471	29.02	0
3/30/23 10:45	4.508	194.9	12.97	7.691	29.02	0
3/30/23 11:00	6.971	189.5	9.13	8.41	29.01	0
3/30/23 11:15	6.561	190	8.41	8.55	29.02	0
3/30/23 11:30	5.214	209.8	17.65	8.24	29.02	0
3/30/23 11:45	5.758	215.4	8.61	8.57	29.02	0
3/30/23 12:00	5.989	222.1	8.14	8.62	29.02	0
3/30/23 12:15	5.423	214.3	19.72	9.59	29.02	0
3/30/23 12:30	5.246	239.5	14.92	9.59	29.02	0
3/30/23 12:45	5.607	249.4	21.38	9.23	29.02	0
3/30/23 13:00	5.689	258.1	12.25	9.14	29.02	0
3/30/23 13:15	6.323	259.2	13.93	9.35	29.02	0
3/30/23 13:30	5.743	261.7	12.99	9.26	29.02	0
3/30/23 13:45	4.985	253.6	14.63	9.29	29.02	0
3/30/23 14:00	4.983	242.2	12.15	9.33	29.02	0
3/30/23 14:15	6.014	251.8	10.1	9.26	29.02	0
3/30/23 14:30	5.415	249	13.84	9.42	29.02	0
3/30/23 14:45	6.515	226.6	12.53	9.41	29.02	0
3/30/23 15:00	5.724	236.1	20.76	9.79	29.02	0
3/30/23 15:15	4.782	247.2	15.97	9.71	29.02	0
3/30/23 15:30	5.211	238.9	16.09	9.82	29.02	0
3/30/23 15:45	7.727	244.6	10.46	9.88	29.02	0
3/30/23 16:00	6.247	249.2	12.66	9.64	29.02	0
3/30/23 16:15	6.346	242.9	8.62	9.51	29.02	0
3/30/23 16:30	6.001	228.9	13.37	9.42	29.02	0
3/30/23 16:45	7.717	219.9	9.02	9.28	29.02	0
3/30/23 17:00	6.91	245.6	11.61	9.02	29.02	0
3/30/23 17:15	5.967	250.8	9.31	8.68	29.03	0
3/30/23 17:30	5.42	251.1	11.22	8.47	29.03	0
3/30/23 17:45	5.997	249.4	9.58	8.38	29.03	0
3/30/23 18:00	5.484	243.6	8.8	8.16	29.04	0
3/30/23 18:15	5.711	234.3	9.79	8.08	29.04	0
3/30/23 18:30	4.922	227.7	9.36	8.01	29.04	0
3/30/23 18:45	5.662	234.9	7.929	7.915	29.04	0
3/30/23 19:00	4.752	231.8	7.761	7.822	29.05	0
3/30/23 19:15	5.42	234	8.62	7.643	29.05	0
3/30/23 19:30	4.945	226.1	10.61	7.495	29.06	0
3/30/23 19:45	6.553	219	10.53	7.288	29.06	0
3/30/23 20:00	5.951	209.7	8.38	6.967	29.07	0
3/30/23 20:15	6.049	211.1	9.83	6.717	29.08	0
3/30/23 20:30	6.005	216.8	9.14	6.552	29.08	0
3/30/23 20:45	5.198	213.3	10.05	6.41	29.09	0
3/30/23 21:00	4.955	214.9	9.59	6.301	29.09	0
3/30/23 21:15	5.708	207.8	8.62	6.159	29.09	0
3/30/23 21:30	5.576	203.8	8.02	5.999	29.1	0
3/30/23 21:45	4.947	202.5	7.901	5.904	29.1	0
3/30/23 22:00	4.699	199.3	7.902	5.835	29.1	0
3/30/23 22:15	4.504	195	9.35	5.746	29.1	0
3/30/23 22:30	4.611	198.2	8.57	5.654	29.1	0
3/30/23 22:45	4.333	197	9.68	5.575	29.1	0
3/30/23 23:00	4.206	203.1	7.248	5.538	29.1	0
3/30/23 23:15	4.128	204.5	7.339	5.487	29.1	0
3/30/23 23:30	4.069	201.8	7.876	5.436	29.11	0
3/30/23 23:45	3.827	196.9	8.99	5.402	29.11	0
3/31/23 0:00	3.896	193.3	9.35	5.348	29.11	0
3/31/23 0:15	3.642	190.5	8.85	5.327	29.11	0
3/31/23 0:30	3.043	181.6	8.71	5.315	29.11	0
3/31/23 0:45	2.899	183.4	8.45	5.291	29.11	0
3/31/23 1:00	2.901	179.4	9.55	5.28	29.12	0
3/31/23 1:15	2.786	183.3	8.98	5.274	29.12	0

	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/31/23 1:30	3.607	188.6	7.848	5.242	29.11	0
3/31/23 1:45	3.9	182.2	8.92	5.23	29.11	0
3/31/23 2:00	3.271	184.3	9.18	5.208	29.11	0
3/31/23 2:15	2.811	194.7	12.98	4.979	29.11	0
3/31/23 2:30	2.94	209.3	15.26	4.795	29.11	0
3/31/23 2:45	1.95	235.4	7.971	4.594	29.11	0
3/31/23 3:00	2.107	227.1	8.99	4.484	29.11	0
3/31/23 3:15	1.771	183.6	44.33	4.271	29.11	0.01
3/31/23 3:30	0.963	138.1	23.27	4.072	29.11	0
3/31/23 3:45	1.962	125.2	8.37	4.018	29.11	0
3/31/23 4:00	1.852	126.1	7.85	3.998	29.11	0
3/31/23 4:15	1.938	119	7.421	4	29.1	0
3/31/23 4:30	1.659	122.7	11.61	4.124	29.1	0
3/31/23 4:45	2.06	140.9	12.51	4.228	29.1	0
3/31/23 5:00	2.013	144	8.77	4.264	29.11	0
3/31/23 5:15	2.602	157.2	12.3	4.373	29.11	0
3/31/23 5:30	3.007	178.4	8.03	4.582	29.11	0
3/31/23 5:45	2.578	166.9	14.07	4.396	29.11	0
3/31/23 6:00	2.365	148.8	7.318	4.297	29.11	0
3/31/23 6:15	2.495	155	12.99	4.469	29.11	0
3/31/23 6:30	2.815	167.8	10.54	4.696	29.11	0
3/31/23 6:45	3.136	178	10.64	4.979	29.11	0
3/31/23 7:00	2.859	179.3	8.97	5.057	29.11	0
3/31/23 7:15	2.942	170.1	10.1	5.103	29.12	0
3/31/23 7:30	3.93	179.8	11.21	5.356	29.12	0
3/31/23 7:45	4.108	189	8.03	5.391	29.12	0
3/31/23 8:00	4.131	183.7	10.65	5.502	29.12	0
3/31/23 8:15	4.295	185	10.23	5.733	29.11	0
3/31/23 8:30	4.262	181.5	9	5.994	29.11	0
3/31/23 8:45	4.135	184.8	10.74	6.284	29.11	0
3/31/23 9:00	4.835	183.4	9.68	6.504	29.11	0
3/31/23 9:15	4.852	190.7	12.01	6.73	29.11	0
3/31/23 9:30	5.252	197.1	11.75	6.995	29.11	0
3/31/23 9:45	4.98	195.8	12.47	7.342	29.11	0
3/31/23 10:00	6.571	198	11.99	7.381	29.11	0
3/31/23 10:15	6.365	196.4	11.08	7.497	29.11	0
3/31/23 10:30	6.552	194.6	12.34	7.674	29.11	0
3/31/23 10:45	7.041	201.7	12.54	7.746	29.11	0
3/31/23 11:00	6.355	192.5	11.13	7.841	29.11	0
3/31/23 11:15	8.05	199.9	8.74	7.31	29.1	0
3/31/23 11:30	5.561	187.7	10.95	7.344	29.1	0
3/31/23 11:45	8.37	195.4	10.32	7.632	29.1	0
3/31/23 12:00	7.865	194.7	9.23	7.347	29.1	0
3/31/23 12:15	7.206	195.4	14.5	7.741	29.1	0
3/31/23 12:30	7.568	228.6	12.49	7.249	29.11	0.01
3/31/23 12:45	7.919	218.8	14.18	5.082	29.12	0.03
3/31/23 13:00	5.358	197.7	11.03	5.7	29.13	0
3/31/23 13:15	5.399	194.6	10.8	5.837	29.13	0
3/31/23 13:30	5.944	188.7	10.46	5.88	29.12	0.01
3/31/23 13:45	4.956	179.9	10.46	5.838	29.12	0
3/31/23 14:00	4.335	155.9	9.63	5.894	29.11	0
3/31/23 14:15	4.556	146.9	10.68	5.868	29.11	0
3/31/23 14:30	4.092	130.6	10.87	5.93	29.1	0
3/31/23 14:45	3.948	128.3	10.14	6.055	29.1	0
3/31/23 15:00	4.49	129.9	8.9	6.211	29.09	0
3/31/23 15:15	3.517	146.3	10.45	6.43	29.09	0
3/31/23 15:30	4.006	157.4	16.73	6.526	29.09	0.01
3/31/23 15:45	3.686	187	12.2	6.74	29.08	0
3/31/23 16:00	4.922	200.3	10.46	6.932	29.08	0
3/31/23 16:15	4.216	194.5	8.82	6.789	29.07	0
3/31/23 16:30	3.536	183	8.99	6.839	29.07	0
3/31/23 16:45	3.675	183.2	9.13	6.822	29.06	0
3/31/23 17:00	5.488	181	10.65	6.712	29.06	0.01
3/31/23 17:15	4.736	187.2	9.92	6.478	29.05	0
3/31/23 17:30	3.482	178.9	8.32	6.35	29.05	0.01
3/31/23 17:45	2.933	152.5	9.49	6.076	29.04	0
3/31/23 18:00	2.819	146.2	10.22	5.919	29.04	0.01
3/31/23 18:15	3.904	163.3	11.66	5.926	29.03	0
3/31/23 18:30	3.039	150.2	11.77	5.671	29.02	0.01
3/31/23 18:45	2.97	141	9.04	5.45	29.02	0.02
3/31/23 19:00	4.114	149.7	7.413	5.434	29.01	0.02
3/31/23 19:15	3.63	138.2	8.61	5.335	29.01	0.02
3/31/23 19:30	3.835	145.5	8.96	5.28	29.01	0.03
3/31/23 19:45	4.1	141.5	9.5	5.202	29	0.02
3/31/23 20:00	3.844	142.5	9.65	5.057	29.01	0.02

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/31/23 20:15	4.562	146.3	8.31	4.797	29	0.04
3/31/23 20:30	4.201	135.9	9.35	4.636	29	0.02
3/31/23 20:45	4.129	132.2	8.69	4.556	28.99	0.04
3/31/23 21:00	4.315	124.5	10.14	4.486	28.98	0.02
3/31/23 21:15	4.931	129.4	8.41	4.587	28.97	0
3/31/23 21:30	4.226	144	13.48	4.54	28.97	0.01
3/31/23 21:45	3.173	148.3	11.69	4.389	28.97	0.01
3/31/23 22:00	2.724	156.4	10.02	4.369	28.98	0
3/31/23 22:15	2.798	141	12.75	4.357	28.98	0.01
3/31/23 22:30	2.948	136.7	14.39	4.488	28.98	0
3/31/23 22:45	3.764	175.8	12.37	4.79	28.99	0
3/31/23 23:00	4.077	175.3	8.18	4.832	28.99	0
3/31/23 23:15	4.153	179.5	10.18	4.896	28.99	0
3/31/23 23:30	5.034	191.2	10.65	4.846	29	0
3/31/23 23:45	5.546	203.9	8.79	4.752	29	0
4/1/23 0:00	6.011	210.2	9.22	4.643	29	0

APPENDIX D

Area 5 Top Deck Report

CEDAR HILLS REGIONAL LANDFILL AREA 5 TOP DECK MONITORING REPORT

First Quarter 2023



Department of Natural Resources and Parks
Solid Waste Division

June 2023
Printed on recycled paper

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AREA 5 TOP DECK MONITORING QUARTERLY REPORT

FIRST QUARTER 2023

I. REPORT OVERVIEW

This report provides the quarterly performance analysis of the interim soil cover system over Area 5 in the Cedar Hills Regional Landfill (CHRLF). The intent of the report is to demonstrate that the top deck cover system is functioning to limit infiltration of rainwater, protect surface water quality, and control landfill gas emissions. Monitoring of surface emissions, leachate quantity, and stormwater quality is conducted, and results are presented in this report.

II. LEACHATE MONITORING

Leachate monitoring is performed to demonstrate that the landfill cover system is effectively limiting rainwater infiltration and therefore leachate production.

King County Solid Waste Division (KCSWD) is no longer able to monitor leachate volume solely from Area 5. KCSWD staff continues to evaluate leachate volumes collected throughout the landfill. Table 1 presents a historical account of leachate generation at the site since 1986. The evaluation accounts for variations in rainfall by normalizing the leachate flows in terms of gallons discharged per inch of rainfall. The flow has also been normalized relative to pounds of waste in-place. These normalized values for the entire site are also included in Table 1.

<p align="center">TABLE 1 CEDAR HILLS REGIONAL LANDFILL LEACHATE PRODUCTION for 1ST QUARTER of 2023</p>								
Time	Leachate	Surface Area of Refuse	Refuse In Place	Precipitation	Flow			
(year)	(MG/yr)	(Acres)	(lbs)	(in/yr)	(gal/Acre/yr)	(gal/Acre/in)	(gal/lb/yr)	(gal/lb/in)
1986	163.03	138.5	11,328,841,100	54.79	1,177,112	21,484	0.0144	0.00026
1987	139.53	138.5	12,927,926,300	39.6	1,007,422	25,440	0.0108	0.00027
1988	169.67	161.9	14,525,504,000	48.63	1,048,009	21,551	0.0117	0.00024
1989	176	161.9	16,203,204,000	44.12	1,087,110	24,640	0.0109	0.00025
1990	294.75	161.9	17,965,254,000	71.6	1,820,594	25,427	0.0164	0.00023
1991	224.27	221.4	19,778,412,000	45.85	1,012,967	22,093	0.0113	0.00025
1992	156.46	221.4	21,454,600,000	38.64	706,694	18,289	0.0073	0.00019
1993	150.83	221.4	23,051,348,000	35.01	681,264	19,459	0.0065	0.00019
1994	159.8	221.4	24,657,528,000	38.55	721,764	18,723	0.0065	0.00017
1995	201.11	221.4	26,294,654,000	48.4	908,376	18,768	0.0076	0.00016
1996	243.03	221.4	27,946,704,000	57.08	1,097,714	19,231	0.0087	0.00015
1997	239.23	221.4	29,665,380,000	57.24	1,080,511	18,877	0.0081	0.00014
1998	202.8	221.4	31,432,828,000	42.82	916,006	21,392	0.0065	0.00015
1999	219.15	283.42	33,273,828,000	45.9	773,229	16,848	0.0066	0.00014
2000	148.82	283.42	35,167,828,000	33.15	525,102	15,840	0.0042	0.00013
2001	174.08	283.42	37,041,828,000	47.28	614,194	12,991	0.0047	0.0001
2002	133.4	283.42	38,919,828,000	35.13	470,690	13,399	0.0034	0.0001
2003	181.6	283.42	40,877,828,000	46.39	640,761	13,812	0.0044	0.0001
2004	185.72	328.72	42,889,828,000	34.08	564,983	16,578	0.0043	0.00013
2005	175.31	328.72	44,867,538,000	40.75	533,313	13,087	0.0039	0.0001
2006	264.95	328.72	46,820,938,000	52.94	806,009	15,225	0.0057	0.00011
2007	161.48	328.72	47,129,756,000	38.68	491,239	16,143	0.0034	0.000112
2008	126.02	328.72	48,990,990,000	42.32	383,366	9,059	0.0026	0.00006
2009	172.16	328.72	49,414,219,997	42.42	523,741	12,347	0.0035	0.00008
2010	199.4	335.72	51,076,043,997	49.25	593,959	12,060	0.0039	0.00008
2011	180.2	353.12*	52,701,411,694	51.05	510,308	9,996	0.0034	0.00007
2012	202.3	353.12*	54,315,239,773	58.16	572,972	9,852	0.0037	0.00006
2013	156.4	353.12*	55,933,569,773	47.77	442,923	9,272	0.0028	0.00006
2014	189.14	353.12*	57,638,062,970	64.07	535,631	8,360	0.0033	0.00005
2015	176.26	353.12*	59,401,111,988	51.39	499,159	9,713	0.0030	0.00006
2016	180.32	353.12*	61,277,452,914	51.43	510,659	9,929	0.0029	0.00006
2017	218.18	353.12*	63,183,738,844	57.54	617,853	10,738	0.0035	0.00006
2018	175.71	353.12*	64,999,044,304	33.83	497,597	14,709	0.0027	0.00008
2019	165.27	353.12*	66,781,588,304	45.71	468,018	10,239	0.0025	0.00005
2020	185.95	353.12*	68,272,638,304	51.63	526,603	10,200	0.0027	0.00005
2021	174.29	353.12*	70,076,050,304	48.30	493,572	10,903	0.0027	0.00006
2022	138.85	353.12*	71,806,362,304	47.63	393,202	10,363	0.0025	0.00005
2023	38.61	353.12*	72,208,261,344	9.85	109,338	11,100	0.0019	0.00005
2023: Precipitation and leachate through 1st Quarter of 2023. Refuse in place through 1st Quarter 2023.								
* The 353.12 acre value was a plan view area calculated by AUTOCAD, using the area inquiry feature of a closed polyline.								

III. SURFACE MONITORING

KCSWD's plan for monitoring the surface of the Area 5 Top Deck is comprised of three (3) components:

1. Landfill gas inspections and surface emissions monitoring;
2. Top Deck Surface Inspections; and,
3. Settlement monitoring.

The purpose of this monitoring is to detect any conditions affecting the cover system that may permit landfill gas emissions, leachate seeps, or excessive or differential settlement.

Landfill Gas Inspections

Each quarter, monthly inspections of the gas system, stormwater system, and cover system of Area 5 are performed by the KCSWD staff. During the first quarter of 2023 all inspections and maintenance work was performed by KCSWD staff as planned. A summary of this work can be found in Appendix A: Inspection Reports.

Also, throughout the first quarter of 2023, KCSWD staff performed monthly Landfill Facility Site Inspections. These inspections are also included in Appendix A. During the first quarter, erosion control measures continued to be maintained to mitigate runoff effects activities at the landfill.

Additionally, inspections were performed by Public Health – Seattle & King County (PHSKC) in February and March of this quarter.

All inspection reports can be viewed in Appendix A.

Air Quality Criteria

Each quarter, surface emission monitoring is conducted across the Area 5 Top Deck and its side slopes to verify that methane gas emissions are below regulatory criteria. The first quarter of 2023 surface emission monitoring was conducted in March of 2023. The results from the first quarter of 2023 surface emission monitoring can be found in Appendix B: Gas Monitoring Reports, along with a plot of GPS generated track lines.

Top Deck Surface Inspections

Visual inspections for indications of leachate seeps are conducted each quarter by KCSWD personnel in conjunction with the surface emissions monitoring and monthly inspections. No indications of leachate seeps were recorded during the first quarter of 2023 by KCSWD staff. Inspections conducted by Public Health in February and March noted ponding areas on the top deck of Area 5. Operations began addressing these areas as the dry season began and will complete the work by the end of the summer 2023.

Settlement Monitoring

Settlement of Area 5 is evaluated both through visual inspections and through topographic surveys at control points on the top deck. Due to the work for the closure of Area 7 and the opening on Area 8, all previously surveyed control points in Area 5 were covered. Recently added monitoring location PMX2015 was added as a replacement for PMX20074. Other alternate locations are currently being evaluated as survey control points in order to continue settlement monitoring within Area 5. Monitoring locations can be viewed in figure 1.

The most recent settlement levels for Area 5 were measured on March 14th, 2023. The survey data is given in Table 2, and the settlement at each point is given in Table 3. Although settlement is still proceeding, progression is at a very low rate with no indication that any differential settlement is occurring, nor is there any concern with the interim cover system integrity.

TABLE 2
CEDAR HILLS REGIONAL LANDFILL AREA 5 SURFACE SURVEY DATA for 1ST QUARTER of 2023

A5SM-1 ^a		A5SM-2		A5SM-3 ^b		PMX20074 ^c		PMX2015 ^d	
Date	Elevation	Date	Elevation	Date	Elevation	Date	Elevation	Date	Elevation
10/4/2005	699.18	10/4/2005	785.17	--	--	--	--	--	--
2/1/2006	697.7	2/1/2006	782.52	--	--	--	--	--	--
6/27/2006	696.51	6/27/2006	780.48	--	--	--	--	--	--
2/14/2007	694.53	--	--	2/14/2007	786.4	--	--	--	--
--	--	4/20/2007	776.95	4/20/2007	786.25	--	--	--	--
7/24/2007	693.34	7/24/2007	775.63	7/24/2007	785.68	8/16/2007	781.56	--	--
2/29/2008	691.77	2/29/2008	773.44	2/29/2008	784.87	2/29/2008	780.1	--	--
7/29/2008	691.26	7/29/2008	772.2	7/29/2008	784.31	7/29/2008	779.13	--	--
11/24/2008	690.61	11/24/2008	771.29	11/24/2008	783.76	11/24/2008	778.21	--	--
4/6/2009	690.16	4/6/2009	770.35	4/6/2009	783.35	4/6/2009	777.41	--	--
7/9/2009	689.77	7/9/2009	769.79	7/9/2009	783.05	7/9/2009	776.99	--	--
12/22/2009	689.13	12/22/2009	768.6	12/22/2009	782.44	12/22/2009	776.1	--	--
3/1/2010	688.77	3/1/2010	768.05	3/1/2010	782.08	3/1/2010	775.81	--	--
8/2/2010	688.6	8/2/2010	767.28	8/2/2010	781.78	8/2/2010	775.29	--	--
12/21/2010	688.1	12/21/2010	766.53	12/21/2010	781.25	12/21/2010	774.79	--	--
4/6/2011	687.83	4/6/2011	765.86	4/6/2011	780.94	4/6/2011	774.42	--	--
8/8/2011	687.46	8/8/2011	765.34	8/8/2011	780.66	8/8/2011	774.19	--	--
1/23/2012	687.19	1/23/2012	764.53	1/23/2012	780.26	1/23/2012	773.79	--	--
5/18/2012	686.78	5/18/2012	763.99	5/18/2012	779.9	5/18/2012	773.41	--	--
7/12/2012	686.69	7/12/2012	763.83	7/12/2012	779.69	7/12/2012	773.26	--	--
11/2/2012	686.55	11/6/2012	763.35	11/2/2012	779.56	--	--	--	--
5/22/2013	686.09	5/22/2013	762.77	5/22/2013	779.09	--	--	--	--
--	--	8/8/2013	762.53	9/5/2013	779.66	--	--	--	--
--	--	2/19/2014	762.06	2/19/2014	777.68	--	--	--	--
--	--	2/9/2015	761.09	2/9/2015	777.63	--	--	--	--
--	--	4/6/2015	761.11	4/6/2015	777.51	--	--	4/6/2015	770.48
--	--	7/2/2015	760.96	7/2/2015	777.38	--	--	7/2/2015	770.31
--	--	10/27/2015	760.62	10/27/2015	777.12	--	--	10/27/2015	770.1
--	--	2/3/2016	760.35	2/3/2016	776.83	--	--	2/3/2016	769.87
--	--	4/12/2016	760.35	4/12/2016	776.87	--	--	4/12/2016	769.86
--	--	7/11/2016	760.15	7/11/2016	776.68	--	--	7/11/2016	769.76
--	--	12/21/2016	759.85	12/21/2016	776.43	--	--	12/21/2016	769.57
--	--	5/31/2017	759.56	5/31/2017	776.23	--	--	5/31/2017	769.27
--	--	8/28/2017	759.38	--	--	--	--	8/28/2017	769.16
--	--	11/27/2017	759.28	--	--	--	--	11/27/2017	769
--	--	2/15/2018	759.10	--	--	--	--	2/15/2018	768.96
--	--	9/4/2018	758.61	--	--	--	--	9/4/2018	768.6
--	--	12/15/2018	758.55	--	--	--	--	12/15/2018	768.6
--	--	2/10/2019	758.44	--	--	--	--	2/10/2019	768.54
--	--	10/31/2019	757.94	--	--	--	--	10/31/2019	768.17
--	--	3/3/2020	757.71	--	--	--	--	3/3/2020	767.98
--	--	5/28/2020	757.63	--	--	--	--	5/28/2020	767.91
--	--	8/12/2020	757.49	--	--	--	--	8/12/2020	767.83
--	--	11/19/2020	757.36	--	--	--	--	11/19/2020	767.67
--	--	2/22/2021	757.47	--	--	--	--	2/22/2021	767.75
--	--	12/20/2021	757.09	--	--	--	--	12/20/2021	767.41
--	--	5/5/2022	756.96	--	--	--	--	5/5/2022	767.32
--	--	7/7/2022	756.90	--	--	--	--	7/7/2022	767.24
--	--	12/7/2022	756.69	--	--	--	--	12/7/2022	767.07
--	--	3/14/2023	756.61	--	--	--	--	3/14/2023	766.94

^a A5SM-1 was destroyed by filling Area 7 during Lift 4.

^b A5SM-3 NEW as of 2/14/2007. Destroyed by Area 8 excavation stockpile in 08/2017.

^c PMX20074 was destroyed during Phase 3 of Area 6.

^d PMX2015 NEW 04/06/2015; same location as PMX20074

TABLE 3

CEDAR HILLS REGIONAL LANDFILL AREA 5 SETTLEMENT for 1ST QUARTER of 2023

Settlement Monitoring Locations	Units	SETTLEMENT DATE RANGE (MM/YYYY)															
		06/2006 - 07/2007	07/2007 - 07/2008	07/2008 - 07/2009	07/2009 - 08/2010	08/2010 - 08/2011	08/2011 - 07/2012	07/2012- 05/2013	05/2013- 02/2014	02/2014- 02/2015	02/2015- 02/2016	02/2016- 05/2017	05/2017- 02/2018	02/2018- 02/2019	02/2019- 03/2020	05/2020- 12/2021	12/2021- 03/2023
^a ASSM-1	Feet	3.17	2.08	1.49	1.17	1.14	0.77	0.60	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
A5SM-2	Feet	4.85	3.43	2.41	2.51	1.94	1.51	1.06	0.71	0.97	0.74	0.79	0.46	0.66	0.73	0.54	0.48
^b ASSM-3	Feet	N/A	1.37	1.26	1.27	1.12	0.97	0.60	1.41	0.05	0.8	0.6	N/A	N/A	N/A	N/A	N/A
^c PMX20074	Feet	N/A	2.43	2.14	1.7	1.1	0.93	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
^d PMX2015	Feet	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.6	0.31	0.42	0.56	0.5	0.47
Average Settlement for Area 5	Feet/Date Range	4.01	2.33	1.83	1.66	1.33	1.05	0.75	1.06	0.51	0.77	0.66	0.38	0.54	0.64	0.52	0.47
	Feet/Month	0.33	0.19	0.17	0.14	0.11	0.10	0.08	0.13	0.05	0.07	0.04	0.05	0.05	0.04	0.03	0.03

^a A5SM-1 was destroyed by filling Area 7 during Lift 4.

^b A5SM-3 NEW as of 2/14/2007. Destroyed by Area 8 excavation stockpile in 08/2017.

^c PMX20074 was destroyed during Phase 3 of Area 6.

^d PMX2015 NEW 04/06/2015; it's the same location as PMX20074

IV. STORMWATER SAMPLING

Collection of Samples

Samples were collected from the Area 5 Top Deck stormwater monitoring stations at SW-TD1 and TD2. Figure 2 shows the Area 5 Top Deck stormwater monitoring station locations.

First Quarter 2023 comparison stormwater samples were not taken, as monthly monitoring of surface water sites was discontinued as of January 1, 2016 per the new Sampling & Analysis Plan (SAP) for the CHRLF. To address this lack of comparative data, the decision was made that the most recent full-year (2015) data available from surface water site SW-S1 would be averaged and used as the comparison basis.

SW-TD1 and TD2 samples were collected and analyzed in accordance with the Area 5 Top Deck Stormwater Runoff Monitoring Plan.

Stormwater Sample Evaluation

Stormwater runoff monitoring locations, field measurements, and laboratory analyses evaluated in this report are intended to assess whether the stormwater runoff from the top deck has been contaminated by the underlying waste. Stormwater was attempted to be collected either during or following significant storm events from four locations on or near the top deck of Area 5. These data are compared to surface water data collected from a location upstream of waste placement activities (monitoring location SW-S1 2015 averaged data).

Stormwater quality is also compared to the leachate quality as collected from the inflow into the aeration ponds (LAPI).

The analytes for the top deck stormwater runoff are iron, sulfate, chemical oxygen demand, total organic carbon, alkalinity, and chloride. The stormwater quality results are screened against existing surface water quality criteria (WAC 173-201A) and Benchmarks for the Washington State Industrial Stormwater General Permit. Applicable criteria/benchmarks are listed in Table 4.

TABLE 4		
Water Quality Criteria/Benchmarks For Applicable Parameters		
Parameter	Numerical Criterion	Source
pH	6.5 to 8.5	WAC 173-201A-200
	5 to 9	Industrial Stormwater General Permit
Turbidity	Less than 10 NTU above background if background turbidity is 50 NTU or less, or a 10% increase in turbidity when the background is > 50 NTU.	WAC 173-201A-200
	25 NTU	Industrial Stormwater General Permit
Temperature	20°C	WAC 173-201A-200
Iron	1.0 mg/L	EPA 440/5-86-001 Quality Criteria for Water 1986

A. RESULTS DISCUSSION

Field measurements and analytical results from the stormwater sampling and analyses performed as part of this monitoring plan are summarized in Tables 5 and 6. Leachate results are presented in Table 7.

The following is a parameter by parameter discussion of the top deck monitoring results. For each parameter, its importance in evaluating surface water, comparison to other onsite surface water, and comparison to representative leachate is discussed.

pH - pH levels in surface water can be affected by many factors, especially photosynthetic activity and the respiration of waterborne flora. This process can potentially decrease the night-time pH level to 4.5 and during peak daytime activity can drive the pH levels above 10.

The benchmark range for pH is 6.5 to 8.5 standard pH Units.

- pH results for SW-TD1 and TD2 locations were within the designated limit per the applicable water quality criteria.

Specific Conductance - Specific Conductance is the ability of water to conduct electrical current. This property is related to dissolved ion concentration, charge, ion mobility, and water temperature. Specific conductance measurements can provide indications of water contamination by a non-specific measure of increased ionic solute load.

There are no benchmarks or criteria for specific conductance.

Temperature - Water temperature criteria are established for the protection of aquatic life and vary between bodies of water based on use categories designated.

Temperature criteria are established for the protection of aquatic life and vary between bodies of water based on use categories designated, per WAC 173-201A-200.

- Temperature results for SW-TD1 and TD2 locations were below the designated limit per the applicable water quality criteria.

Turbidity - Turbidity is one of the indicators used to assess the environmental health of water bodies. Turbidity is caused by the presence of suspended and dissolved matter, such as clay, silt, finely divided organic matter, plankton and other microscopic organisms.

Turbidity criteria are established for the protection of aquatic life and vary between bodies of water based on use categories designated, per WAC 173-201A-200.

The Industrial Stormwater General Permit (ISGP) benchmark for turbidity is 25 NTU.

- Turbidity at SW-TD1 was measured slightly above the designated water quality criteria while turbidity at SW-TD2 was below the criteria (see Table 4 and Table 5). Turbidity for ISGP monitoring stations were monitored according to the SWPPP.

Chemical Oxygen Demand - Chemical Oxygen Demand (COD) is used to indirectly measure the amount of organic compounds in water.

There are no benchmarks or criteria for COD.

Total Organic Carbon - Total organic carbon (TOC) is the amount of carbon bound in an organic compound and is often used as a non-specific indicator of water quality. While COD is the measurement of all substances in the water that can be oxidized, TOC is the measurement of organically bound carbon.

There are no benchmarks or criteria for TOC.

Alkalinity - Alkalinity is the measure of the capacity of water to neutralize acids (aka buffer capacity). The alkalinity of natural waters is controlled primarily by the equilibria of the carbonate system. It is produced by dissolved CO₂ acting upon alkaline materials in the soil to produce bicarbonate (HCO₃⁻) and carbonate (CO₃²⁻). The source(s) of CO₂ can vary, including: atmospheric; respiration of water borne organisms or decay of organic matter; or contribution from landfill gas. Increased turbidity can also potentially increase alkalinity.

There are no benchmarks or criteria for alkalinity.

Chloride - Chloride is a conservative anion; that is, processes of adsorption, ion exchange, or biological uptake do generally not retard transport of chloride. Chloride is the best indicator for determining impacts from leachate. Chloride is one of the major anions to be found in water and sewage. Potable water should not exceed 250 mg/L of chloride.

There are no benchmarks or criteria for chloride.

Sulfate - Sulfate (SO₄²⁻) can be found in almost all natural water and is one of the major dissolved components of rain. It is formed by the oxidation of sulfite ores and is a component in industrial and domestic waste waters. There are few elements that will form insoluble salts with sulfate, thus; once in solution, it remains so unless it is anaerobically reduced to sulfide.

There are no benchmarks or criteria for sulfate.

Iron - Iron is the fourth most abundant element in the earth's crust and the most abundant heavy metal. It is present in the environment mainly as Fe (II) or Fe (III). Iron is more soluble in the reduced state than it is in the oxidized state, where it often occurs as an iron oxide mineral (Fe₂O₃). At a pH above 7, iron exists mostly as insoluble salts which settle out or are adsorbed onto surfaces. The concentration of iron in well-aerated waters is seldom high. Under reducing conditions, which are most commonly caused by oxidation reactions involving organic matter, water will have higher concentrations of dissolved iron.

- SW-TD1 and TD2 sample monitoring results were below the designated limit for total iron per the water quality criteria (see Table 4 and Table 5).

B. RESULTS COMPARISON

The Top Deck stormwater runoff exhibited similar average values versus historical surface water samples for most parameters in the first quarter of 2023. After comparing the sample results with relevant analytical sampling data for surface water and leachate samples, it was determined overall that the runoff from the Top Deck more closely resembles surface water than leachate.

Also considered during evaluation is the possible impact of landfill gas on water quality. Elevated alkalinity (i.e. over 150 mg/L) can indicate a landfill gas contribution to the sample (due to the dissolution of carbon dioxide in water). The alkalinity results at SW-TD1 and TD2 were significantly less than this screening criteria during the first quarter of 2023. The serpentine monitoring for LFG emissions did not show any continued detections in this area. KCSWD will continue to monitor for any continuance of elevated alkalinity. Generally, analysis of the data indicates that landfill gas and leachate are not contributing to increases in parameters; however, continued exposed soil runoff is likely impacting water quality.

TABLE 5													
Area 5 Top Deck - 1Q2023 Stormwater Monitoring Results													
Location	Date	Sample ID	Specific Conductance	pH units	Temp	Turbidity	Alkalinity	Chemical Oxygen Demand	Chloride	Dissolved Iron	Total Iron	Sulfate	Total Organic Carbon
			µmhos/cm	pH units	deg °C	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
SW-TD1	1/18/2023	STD1230118-	111.9	7.57	6.384	12.5	44.6 S	18 T	1.03 S	0.048	0.527	16.7 S	6.16 S
SW-TD2	3/13/2023	STD2230313-	39.1	6.15	7.06	20	14.2	27.9 S	0.669	0.0578	0.879	0.659	9.4
Average Value =			76	6.86	6.7	16	29.4	23.0	0.85	0.053	0.7	8.7	7.8
U = UNDETECTED, ANALYTE CONCENTRATION <MDL													
TABLE 6													
SW-S1 - 2015 Stormwater Comparison Monitoring Results													
Location	Date	Sample ID	Specific Conductance (Field)	pH units (Field)	Temp (Field)	Turbidity (Field)	Alkalinity	Chemical Oxygen Demand	Chloride	Dissolved Iron	Total Iron	Sulfate	Total Organic Carbon
			µmhos/cm	pH units	deg °C	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
SW-S1	1/20/2015	SSI-150120Q	55	7.32	6.7	1.07	11.3	5	2.28	0.012	0.02	2.15	3.27
SW-S1	2/23/2015	SSI-150223M	52	7.31	5.4	0.6	13.4	6.1	2.32	0.01	0.023	2.24	2.2
SW-S1	3/16/2015	SSI-150316M	49	7.13	8.8	2.14	11.9	8.4	1.7	0.027	0.05	1.86	3
SW-S1	4/22/2015	SSI-150422Q	49	6.83	9.4	3.16	17.5	5.7	2.18	0.014	0.029	1.85	2.78
SW-S1	5/19/2015	SSI-150519M	53	6.71	12.4	2.08	19.7	5.5	2.2	0.036	0.0582	0.919	3.34
SW-S1	11/18/2015	SSI-151118Q	65	6.44	8.1	0.42	8.11	9.2	2.69	0.014	0.018	3.32	4.47
SW-S1	12/14/2015	SSI-151214M	53	6.47	7	0.58	7.44	8.6	2.6	0.012	0.017	2.43	3.74
Average Value =			54	6.9	8.3	1.4	12.8	6.9	2.3	0.018	0.03	2.1	3.3
U = UNDETECTED, ANALYTE CONCENTRATION <MDL													
TABLE 7													
Leachate Pond Inflow - 1Q2022 Monitoring Results													
Location	Date	Sample ID	Specific Conductance (Field)	pH units (Field)	Temp (Field)	Turbidity (Field)	Alkalinity	Chemical Oxygen Demand	Chloride	Dissolved Iron	Total Iron	Sulfate	Total Organic Carbon
			µmhos/cm	pH units	deg °C	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
LS-V1A	1/11/2023	LV1A230111M	6009	8.15	15.1		2430	2280	536 S	3.99	7.77	48.7 S	770 S
LS-V1A	2/1/2023	LV1A230201M	3559	8.23	13.2		1610	1730	371	1.88	5.06	28.9	567
LS-V1A	3/9/2023	LV1A230309M	12234	7.93	13.2		1670	1850	392	2.02	3.66	30.5	684
Average Value =			7267	8	14	NA	1903	1953	382	3	5	36	674
S = INDICATES A SAMPLE HANDLING OR HOLD TIME ERROR													
NOTE: LEACHATE IS NOT TYPICALLY ANALYZED (NA) FOR TURBIDITY													

V. CONCLUSION

Stormwater samples for the Area 5 Top Deck were collected at monitoring locations SW-TD1 and TD2 during the first quarter of 2023. There were no significant water quality exceedances with respect to the applicable water quality criteria for both stormwater sampling locations. Additionally, when the overall results were compared to 2015 averaged surface water sampling data at SW- S1 (Table 6), and leachate effluent samples from LV1A (Table 7), the Top Deck stormwater runoff exhibited similar than average values versus historical surface water samples for most parameters in the first quarter of 2022. Figure 2 shows the Area 5 Top Deck stormwater monitoring station locations of the Area 5.

Stormwater samples for the Area 5 Top Deck were not collected at other monitoring locations due to multiple factors, including inability of monitoring locations to provide sufficient sheet flow during the quarter to obtain a sample.

The inspection reports for the first quarter of 2023 showed no issues with the interim cover system for Area 5 and no indication of LFG presence.

Survey points continue to be monitored and assessed. Annual settlement continues to slow over time.

The recent compliant historical performance trend for Area 5, coupled with ongoing inspection results verifying the integrity of the cover all provides evidence that the Area 5 Top Deck Interim Cover System continues to function to prevent interaction between refuse and storm water runoff.

Figures

FIGURE 1
AREA 5 SETTLEMENT MONITORING LOCATIONS



P:\ACAD\PROJECT\King County Expansion Proposal\CARLA WORK\Figure 1.dwg Aug 01, 2007 - 3:18pm

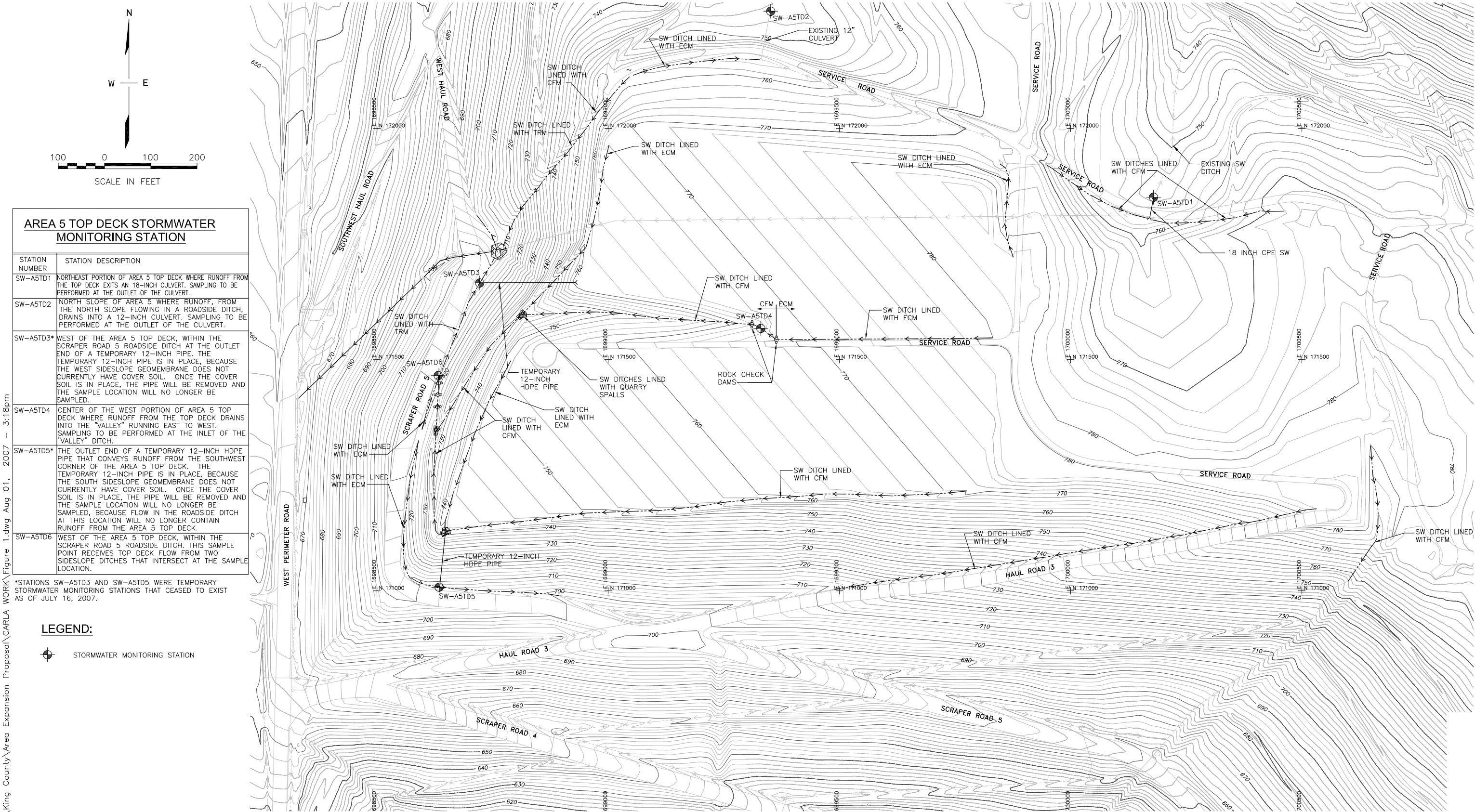


Figure 2
Area 5 Top Deck
Stormwater Monitoring Stations

Cedar Hills Regional Landfill
Area 5 Stage 4 Final Closure
King County, Washington

Appendix A:

Inspection Reports

SOLID WASTE DIVISION**Cedar Hills Regional Landfill Monthly Facility Inspection****Site Inspection: Stormwater Permit Compliance (ISGP Permit # WAR000756)**Inspected By: Samantha Guthrie Date: 1/30/2023Location: Cedar Hills Ambient Temperature: (24°F) Weather Condition: Overcast, Frozen**Inspection Requirements**

1. Observations of the discharge points were stormwater leaves the site (N4, GS1, and SL3).
2. Observations for the presence of floating materials, visible oil sheen, discoloration, turbidity, odor, etc. in stormwater leaving site (See field sheets for that information).
3. Observations for the presence of an illicit discharge.
4. Verification that the descriptions of potential pollutant sources in this SWPPP are accurate.
5. Verification that the site map in this SWPPP is accurate.
6. Assessment of BMPs for effectiveness, maintenance needs, and any deficiencies warranting new or different BMP's than those implemented at the time of the inspection.

Stormwater System Action Code	Good	Fair	Poor	Comments
A. CSW Pond		X		Silt fence needs repair.
B. North Siltation Pond	X			
C. North SW Lagoon (Lined Lagoon)	X			
D. South SW Lagoon	X			
E. South Siltation Pond	X			
F. South Sand Filter	X			
G. CB/ Control Structures	X			
H. Pipes/Culverts	X			
I. Trash Racks		X		Two stormwater trash racks are clogged on the south slope of Area 6 (A6).
J. Ditches		X		Stormwater ditches on the north sides of Areas 2/3 (A2/3) and Area 4 (A4) are damaged and are in need of repair.
K. Best Management Practices		X		On the west side of A6 there are rills, degraded plastic sheeting and some silt fences have become unattached. On the south slope of A6 there are a body of water, damaged triangular silt dikes and a rill. On the north side of A6 there are several damaged silt fences. On the west side of Area 7 there is soughing, erosion damage and a damaged check dam. There are some water bodies on A4 and Area 5. There is a clogged stormwater trash rack on the west slope of A2/3 or A4.
L. Compliance Points:	X			
a. SW-N4	X			
b. SW-GS1	X			
c. SW-SL3	X			
e. Other	X			

Item No.	Action Code(s)	Area Code(s) (See below or over for map) Area Map		Status			State Reason if “Fair or Poor”, include remedy to get item to ‘Good’	Date Corrective Action Implemented
				Good	Fair	Poor		
1	K	A6			X		Rills on the west side of Area 6 should be filled, compacted and hydroseeded	
2	K	A6			X		Degraded plastic sheeting on the west side of Area 6 should be removed/replaced.	
3	K	A6			X		Some silt fences on the west side of Area 6 should be reattached.	
4	K	A6			X		A body of water has formed on the south slope of Area 6. This area should be regraded to prevent the accumulation of water.	WO underway to address a re-design and construction planned for Q2/3 2023.
5	K	A6			X		Damaged triangular silt dikes on the south slope of Area 6 should be repaired or replaced.	
6	K	A6			X		Rill on the south slope of Area 6 should be filled, compacted and hydroseeded. Triangular silt dikes should be installed upstream of this rill to slow the speed of water.	
7	I	A6			X		Two stormwater trash racks are clogged on the south slope of Area 6 and should be unclogged.	
8	K	A6			X		Several silt fences north of Area 6 are damaged and the fabric has come loose. Several silt fences are being short circuited. One set of fences are no longer necessary. The fences should be repaired, and the fabric should be reattached. The unnecessary fences should be removed.	
9	J	A2/3 & A4			X		Stormwater ditches on the north sides of Areas 2/3 and Area 4 are damaged in two locations and should be repaired with sheet metal.	
10	K	A7			X		Some sloughing and erosion damage on the west slope of Area 7 in two locations and a bare slope in one location. These locations should be filled, compacted and hydroseeded as necessary.	Temporary repair initiated week of January 23, 2023 – stormwater berms covered by contractor to minimize damage.

11	K	A7			X		One check dam on the west stormwater ditch of Area 7 has been damaged and should be repaired.	
12	K	A5			X		Two bodies of water on Area 5 should be investigated and the area should be regraded to prevent the accumulation of water.	
13	K	A5			X		A strip drain should be added on the road to the top deck of A7 to allow for drivable top and proper drainage – currently just carved out – damages will increase.	
14	K	A4			X		Body of water on the west slope of Area 4 should be regraded to prevent the accumulation of water.	
15	K	A23 & A4			X		One stormwater trash racks is clogged on the west slope of Area 2/3 or Area 4 and should be unclogged.	

AREA CODES (Cedar Hills):

Area 2/3 = A2/3

Area 7 = A7

East Main Hill = EMH

Southwest Main Hill = SWMH

Area 4 = A4

Area 8 = A8

Leachate Lagoon = LL

Stockpile = CP

Area 5 = A5

Central Pit = CP

North Flare Station = NFS

Area 6 = A6

CSW Lagoon = CSW

Southeast Pit Area = SEPA

State the needs of the repairs in the suggested remedy box.

1. *Emergency*
2. *Regulatory Priority*
3. *Safety Priority*
4. *Maintenance Priority*
 - a. *Urgent*
 - b. *Routine*
 - c. *Deferred*

Overall site description day of site inspection: Overall the site is maintained. Rills on the west side of Area 6 should be filled, compacted and hydroseeded. Degraded plastic sheeting on the west slope of Area 6 should be removed/replaced. Material on the silt fences on the west side of Area 6 have come unattached and should be reattached to prevent further damage. A body of water on the south slope of Area 6 has formed and should be regraded to prevent the accumulation of water. Damaged triangular silt dikes on the south slope of Area 6 should be repaired and replaced. A rill was found on the south slope of Area 6 that should be filled, compacted and hydroseeded. Additionally triangular silt dikes should be installed upstream to slow the movement of water. A workorder is underway to address the design issues with this location and construction is planned for Q2/Q3 of 2023.

Silt fences north of Area 6 are damaged and the fabric has come loose. Several fences are being short circuited, and one set is no longer needed. These fences should be repaired, fabric should be reattached to the posts and the fence no longer needed should be removed. The Area 2/3 or Area 4 north stormwater ditch is damaged in two locations and should be repaired with sheet metal. There is sloughing on the west side of Area 7 in three locations these locations should be filled, compacted and hydroseeded. A check dam was damaged in the west stormwater ditch of Area 7 due to heavy rains. This check dam should be repaired. Two bodies of water on the south slope of Area 5 has formed and should be regraded to prevent the accumulation of water. A body of water on Area 4 has formed and should be regraded to prevent the accumulation of water. Two stormwater trash racks on the south slope of Area 6 and one on the west slope of Area 2/3 are clogged and should be unclogged and monitored long-term to limit trash accumulation.

Photos taken during the site inspection can be found at: P:\SWPublic\CHL_Public\CH Monthly Site Inspections\SW Inspections\SW Inspection 23\01 - Jan 23

<i>Category number:</i>	Action to be Completed. Suggested Remedy:
<i>Category number:</i>	Action to be Completed. Suggested Remedy:

SWPPP Modifications Necessary? (Circle **Y** or **N**)
If **Y**, log changes in Appendix I of SWPPP

Potential Pollutant Sources **Y** / **N**

Site Map **Y** / **N**

INSPECTION REPORT SIGNATURE PAGEINSPECTION DATE: 1/30/2023 SITE: Cedar Hills Regional Landfill**INSPECTOR / QUALIFIED PERSONNEL**

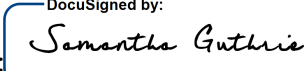
Based on professional judgment, which of the following statements is true: (select one)

X *The site is in compliance with the terms and conditions of the SWPPP and the ISGP.* *The site is NOT in compliance with the terms and conditions of the SWPPP and the ISGP*.*

* Immediately notify Environmental Compliance Coordinator

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

Printed name: Samantha Guthrie

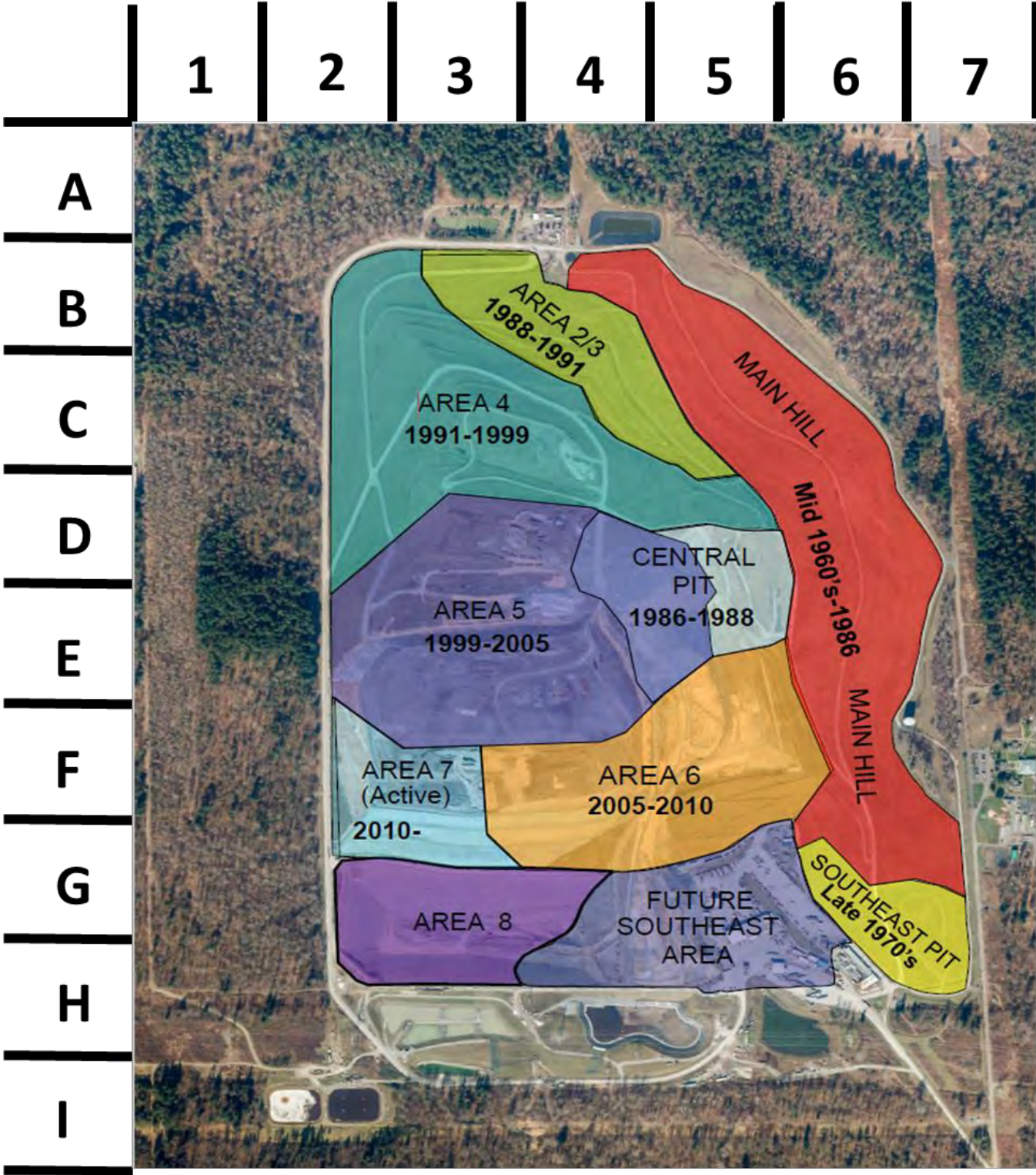
Signature:  Date: Mar 6, 2023
DocuSigned by: 2868F7B7EB4E449...**DULY AUTHORIZED REPRESENTATIVE**

Based on professional judgment, which of the following statements is true: (select one)

X *The site is in compliance with the terms and conditions of the SWPPP and the ISGP.* *The site is NOT in compliance with the terms and conditions of the SWPPP and the ISGP*.*

* Immediately notify Environmental Compliance Coordinator

*I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.*Printed name: Scott Barden or Joseph Newton; Landfill Supervisor/ManagerSignature:  Date: Mar 6, 2023
DocuSigned by: 97F5C1E8E78F4E4...



SOLID WASTE DIVISION**Cedar Hills Regional Landfill Monthly Facility Inspection****Site Inspection: Permit Compliance**Inspected By: Samantha Guthrie Date: 01/30/2023Location: Cedar Hills Ambient Temperature: (24°F) Weather Condition: Overcast, Frozen**ACTION CODES**

A. Gas System	Good	Fair	Poor	C. Landfill Operations	Good	Fair	Poor	E. Roadway System	Good	Fair	Poor
1. Pipe Penetrations	X			1. Fueling Stations	X			1. Road Sweeping	X		
2. Collection Piping	X			2. Vehicle Wash Stations	X			2. Access Roads	X		
3. Extraction Wells	X			3. Equipment	X			3. Road Erosion	X		
4. Monitoring Probes	X			4. Boundary Fences		X		4. Road Pavement	X		
5. Valve Stations	X			5. Vegetation		X		5. Lane Striping	X		
6. North Flare Station	X			6. Landfill Cover	X						
7. Migration Flare	X			7. Drain Rock	X						
8. Noise Control	X			8. Air Quality	X			F. Other Items		X	
9. Air Compressors	X			9. Stockpiles	X						
				10. Vectors	X						
B. Leachate System				11. Litter	X						
1. Pump Station 1	X			12. Dust Control	X						
2. Pump Station 2	X			13. Other							
3. Pump Station 3	X										
4. Pump Station 4	X			D. Stormwater System							
5. Lagoon Facilities	X			1. CSW Pond		X					
6. Lagoon Aerators	X			2. North Siltation Pond	X						
7. Collection System:	X			3. North SW Lagoon	X						
a. Collection Pipes	X			4. South SW Lagoon	X						
b. Force Mains	X			5. South Siltation Pond	X						
c. Manholes	X			6. Sand Filter	X						
d. Cleanouts	X			7. CB/ Control Structures	X						
8. Generators	X			8. Pipes/Culverts	X						
9. Extraction Wells	X			9. Trash Racks		X					
10. Valves/Cleanouts	X			10. Ditches		X					
11. Groundwater	X			11. Best Management		X					
				12. Compliance Points	X						
				13. Other							

Item No.	Action Code (s)	Area Code(s) (See below or over for map) Area Map		Status			State Reason if “Fair or Poor”, include remedy to get item to ‘Good’	Date Corrective Action Implemented
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9	J	A2/3 & A4			X		Stormwater ditches on the north sides of Areas 2/3 and Area 4 are damaged in two locations and should be repaired with sheet metal.	
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							regraded to prevent the accumulation of water.	
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14	K	A4			X		Body of water on the west slope of Area 4 should be regraded to prevent the accumulation of water.	
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Area 5 = A5

Central Pit = CP

North Flare Station = NFS

Area 6 = A6

CSW Lagoon = CSW

Southeast Pit Area = SEPA

State the needs of the repairs in the suggested remedy box.

1. *Emergency*
2. *Regulatory Priority*
3. *Safety Priority*
4. *Maintenance Priority*
 - a. *Urgent*
 - b. *Routine*
 - c. *Deferred*

Overall site description day of site inspection: Overall the site is maintained. Rills on the west side of Area 6 should be filled, compacted and hydroseeded. Degraded plastic sheeting on the west slope of Area 6 should be removed/replaced. Material on the silt fences on the west side of Area 6 have come unattached and should be reattached to prevent further damage. A body of water on the south slope of Area 6 has formed and should be regraded to prevent the accumulation of water. Damaged triangular silt dikes on the south slope of Area 6 should be repaired and replaced. A rill was found on the south slope of Area 6 that should be filled, compacted and hydroseeded. Additionally triangular silt dikes should be installed upstream to slow the movement of water. A workorder is underway to address the design issues with this location and construction is planned for Q2/Q3 of 2023.

Silt fences north of Area 6 are damaged and the fabric has come loose. Several fences are being short circuited, and one set is no longer needed. These fences should be repaired, fabric should be reattached to the posts and the fence no longer needed should be removed. The Area 2/3 or Area 4 north stormwater ditch is damaged in two locations and should be repaired with sheet metal. There is sloughing on the west side of Area 7 in three locations these locations should be filled, compacted and hydroseeded. A check dam was damaged in the west stormwater ditch of Area 7 due to heavy rains. This check dam should be repaired. Two bodies of water on the south slope of Area 5 has formed and should be regraded to prevent the accumulation of water. A body of water on Area 4 has formed and should be regraded to prevent the accumulation of water. Two stormwater trash racks on the south slope of Area 6 and one on the west slope of Area 2/3 are clogged and should be unclogged and monitored long-term to limit trash accumulation.

Photos taken during the site inspection can be found at: P:\SWPublic\CHL_Public\CH Monthly Site Inspections\SW Inspections\SW Inspection 23\01 - Jan 23

<i>Category number:</i>	Action to be Completed. Suggested Remedy:
<i>Category number:</i>	Action to be Completed. Suggested Remedy:

SWPPP Modifications Necessary? (Circle **Y** or **N**)

Potential Pollutant Sources **Y / N**

Site Map **Y / N**

If Y, log changes in Appendix I of SWPPP

INSPECTION REPORT SIGNATURE PAGE

INSPECTION DATE: 01/30/2023 SITE: Cedar Hills Regional Landfill

INSPECTOR / QUALIFIED PERSONNEL

Based on professional judgment, which of the following statements is true: (select one)

X *The site is in compliance with the terms and conditions of the SWPPP and the ISGP.*

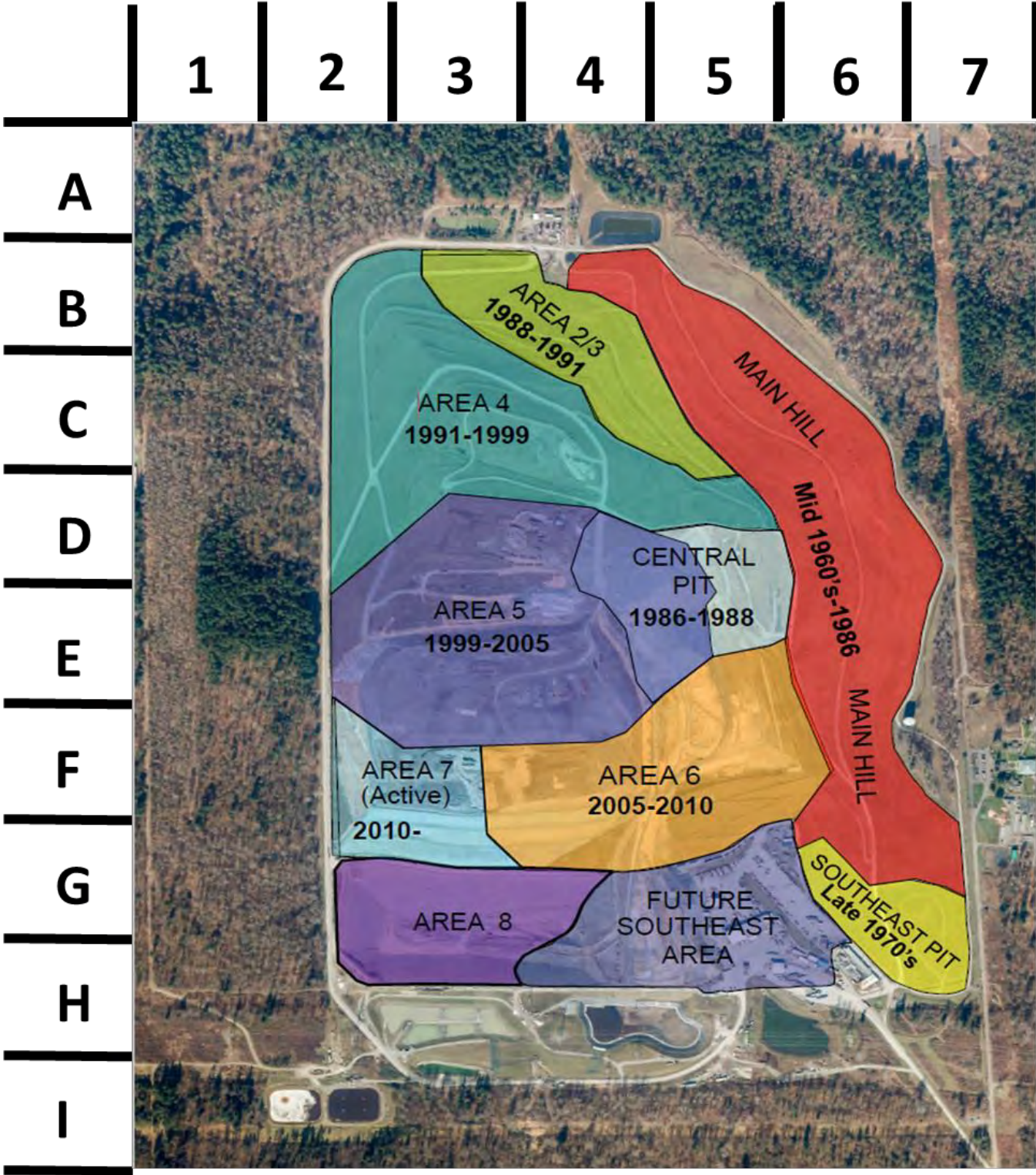
 The site is NOT in compliance with the terms and conditions of the SWPPP and the ISGP.*

* Immediately notify Environmental Compliance Coordinator

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

Printed name: Samantha Guthrie

Signature:  Date: Mar 6, 2023



SOLID WASTE DIVISION**Cedar Hills Regional Landfill Monthly Facility Inspection****Site Inspection: Stormwater Permit Compliance (ISGP Permit # WAR000756)**Inspected By: Samantha Guthrie + Subrina Tahsin Date: 2/28/2023Location: Cedar Hills Ambient Temperature: (35°F) Weather Condition: Overcast, Frozen + Some Snow**Inspection Requirements**

1. Observations of the discharge points were stormwater leaves the site (N4, GS1, and SL3).
2. Observations for the presence of floating materials, visible oil sheen, discoloration, turbidity, odor, etc. in stormwater leaving site (See field sheets for that information).
3. Observations for the presence of an illicit discharge.
4. Verification that the descriptions of potential pollutant sources in this SWPPP are accurate.
5. Verification that the site map in this SWPPP is accurate.
6. Assessment of BMPs for effectiveness, maintenance needs, and any deficiencies warranting new or different BMP's than those implemented at the time of the inspection.

Stormwater System Action Code	Good	Fair	Poor	Comments
A. CSW Pond		X		Silt fence needs repair.
B. North Siltation Pond	X			
C. North SW Lagoon (Lined Lagoon)	X			
D. South SW Lagoon	X			
E. South Siltation Pond	X			
F. South Sand Filter		X		Some garbage debris was noted on the north east corner and needs to be removed.
G. CB/ Control Structures	X			
H. Pipes/Culverts	X			
I. Trash Racks		X		Two stormwater trash racks are clogged on the south slope of Area 6 (A6).
J. Ditches		X		Stormwater ditches on the north sides of Areas 2/3 (A2/3) and Area 4 (A4) are damaged and are in need of repair.
K. Best Management Practices		X		On the west side of A6 there are rills, degraded plastic sheeting and some silt fences have become unattached. On the south slope of A6 there are a body of water, damaged triangular silt dikes and a rill. On the north side of A6 there are several damaged silt fences. On the west side of Area 7 there is soughing, erosion damage and a damaged check dam. There are some water bodies on A4 and Area 5. There is a clogged stormwater trash rack on the west slope of A2/3 or A4.
L. Compliance Points:	X			
a. SW-N4	X			
b. SW-GS1	X			General Trail Maintenance and 1 tree removal for safety.
c. SW-SL3	X			
e. Other	X			

Item No.	Action Code(s)	Area Code(s) (See below or over for map) Area Map		Status			State Reason if “Fair or Poor”, include remedy to get item to ‘Good’	Date Corrective Action Implemented
				Good	Fair	Poor		
1	K	A6			X		Rills on the west side of Area 6 should be filled, compacted and hydroseeded	
2	K	A6			X		Degraded plastic sheeting on the west side of Area 6 should be removed/replaced.	
3	K	A6			X		Some silt fences on the west side of Area 6 should be reattached.	
4	K	A6			X		A body of water has formed on the south slope of Area 6. This area should be regraded to prevent the accumulation of water.	WO underway to address a re-design and construction planned for Q2/3 2023.
5	K	A6			X		Damaged triangular silt dikes on the south slope of Area 6 should be repaired or replaced.	
6	K	A6			X		Rill on the south slope of Area 6 should be filled, compacted and hydroseeded. Triangular silt dikes should be installed upstream of this rill to slow the speed of water.	
7	I	A6			X		Two stormwater trash racks are clogged on the south slope of Area 6 and should be unclogged.	
8	K	A6			X		Several silt fences north of Area 6 are damaged and the fabric has come loose. Several silt fences are being short circuited. One set of fences are no longer necessary. The fences should be repaired, and the fabric should be reattached. The unnecessary fences should be removed.	
9	J	A2/3 & A4			X		Stormwater ditches on the north sides of Areas 2/3 and Area 4 are damaged in two locations and should be repaired with sheet metal.	
10	K	A7			X		Some sloughing and erosion damage on the west slope of Area 7 in two locations and a bare slope in one location. These locations should be filled, compacted and hydroseeded as necessary.	Temporary repair initiated week of January 23, 2023 – stormwater berms covered by contractor to minimize damage.

11	K	A7			X	One check dam on the west stormwater ditch of Area 7 has been damaged and should be repaired.	
12	K	A5			X	Two bodies of water on Area 5 should be investigated and the area should be regraded to prevent the accumulation of water.	
13	K	A5			X	A strip drain should be added on the road to the top deck of A7 to allow for drivable top and proper drainage – currently just carved out – damages will increase.	
14	K	A4			X	Body of water on the west slope of Area 4 should be regraded to prevent the accumulation of water.	
15	K	A23 & A4			X	One stormwater trash racks is clogged on the west slope of Area 2/3 or Area 4 and should be unclogged.	

AREA CODES (Cedar Hills):

Area 2/3 = A2/3

Area 7 = A7

East Main Hill = EMH

Southwest Main Hill = SWMH

Area 4 = A4

Area 8 = A8

Leachate Lagoon = LL

Stockpile = CP

Area 5 = A5

Central Pit = CP

North Flare Station = NFS

Area 6 = A6

CSW Lagoon = CSW

Southeast Pit Area = SEPA

State the needs of the repairs in the suggested remedy box.

1. *Emergency*
2. *Regulatory Priority*
3. *Safety Priority*
4. *Maintenance Priority*
 - a. *Urgent*
 - b. *Routine*
 - c. *Deferred*

Overall site description day of site inspection: Overall the site is maintained. Sand filter on the south end of the landfill has some trash that needs to be removed. Rills on the west side of Area 6 should be filled, compacted and hydroseeded. Degraded plastic sheeting on the west slope of Area 6 should be replaced. Material on the silt fences on the west side of Area 6 have come unattached and should be reattached to prevent further damage. A body of water on the south slope of Area 6 has formed and should be regraded to prevent the accumulation of water. Damaged triangular silt dikes on the south slope of Area 6 should be repaired and replaced. A rill was found on the south slope of Area 6 that should be filled, compacted and hydroseeded. Additionally triangular silt dikes should be installed upstream to slow the movement of water. A workorder is underway to address the design issues with this location and construction is planned for Q2/Q3 of 2023.

Silt fences north of Area 6 are damaged and the fabric has come loose. Several fences are being short circuited, and one set is no longer needed. These fences should be repaired, fabric should be reattached to the posts and the fence no longer needed should be removed. The Area 2/3 or Area 4 north stormwater ditch is damaged in two locations and should be repaired with sheet metal. There is sloughing on the west side of Area 7 in three locations these locations should be filled, compacted and hydroseeded. A check dam was damaged in the west stormwater ditch of Area 7 due to heavy rains. This check dam should be repaired. Two bodies of water on the south slope of Area 5 has formed and should be regraded to prevent the accumulation of water. A body of water on Area 4 has formed and should be regraded to prevent the accumulation of water. Two stormwater trash racks on the south slope of Area 6 and one on the west slope of Area 2/3 are clogged and should be unclogged and monitored long-term to limit trash accumulation.

Photos taken during the site inspection can be found at: P:\SWPublic\CHL_Public\CH Monthly Site Inspections\SW Inspections\SW Inspection 23\02 - Feb 23

<i>Category number:</i>	Action to be Completed. Suggested Remedy:
<i>Category number:</i>	Action to be Completed. Suggested Remedy:

SWPPP Modifications Necessary? (Circle Y or N)

If Y, log changes in Appendix I of SWPPP

Potential Pollutant Sources Y/N

Site Map Y/N

INSPECTION REPORT SIGNATURE PAGEINSPECTION DATE: 2/28/2023 SITE: Cedar Hills Regional Landfill**INSPECTOR / QUALIFIED PERSONNEL**

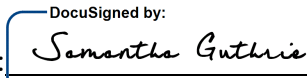
Based on professional judgment, which of the following statements is true: (select one)

X *The site is in compliance with the terms and conditions of the SWPPP and the ISGP.* *The site is NOT in compliance with the terms and conditions of the SWPPP and the ISGP*.*

* Immediately notify Environmental Compliance Coordinator

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

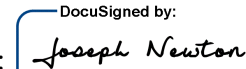
Printed name: Samantha Guthrie

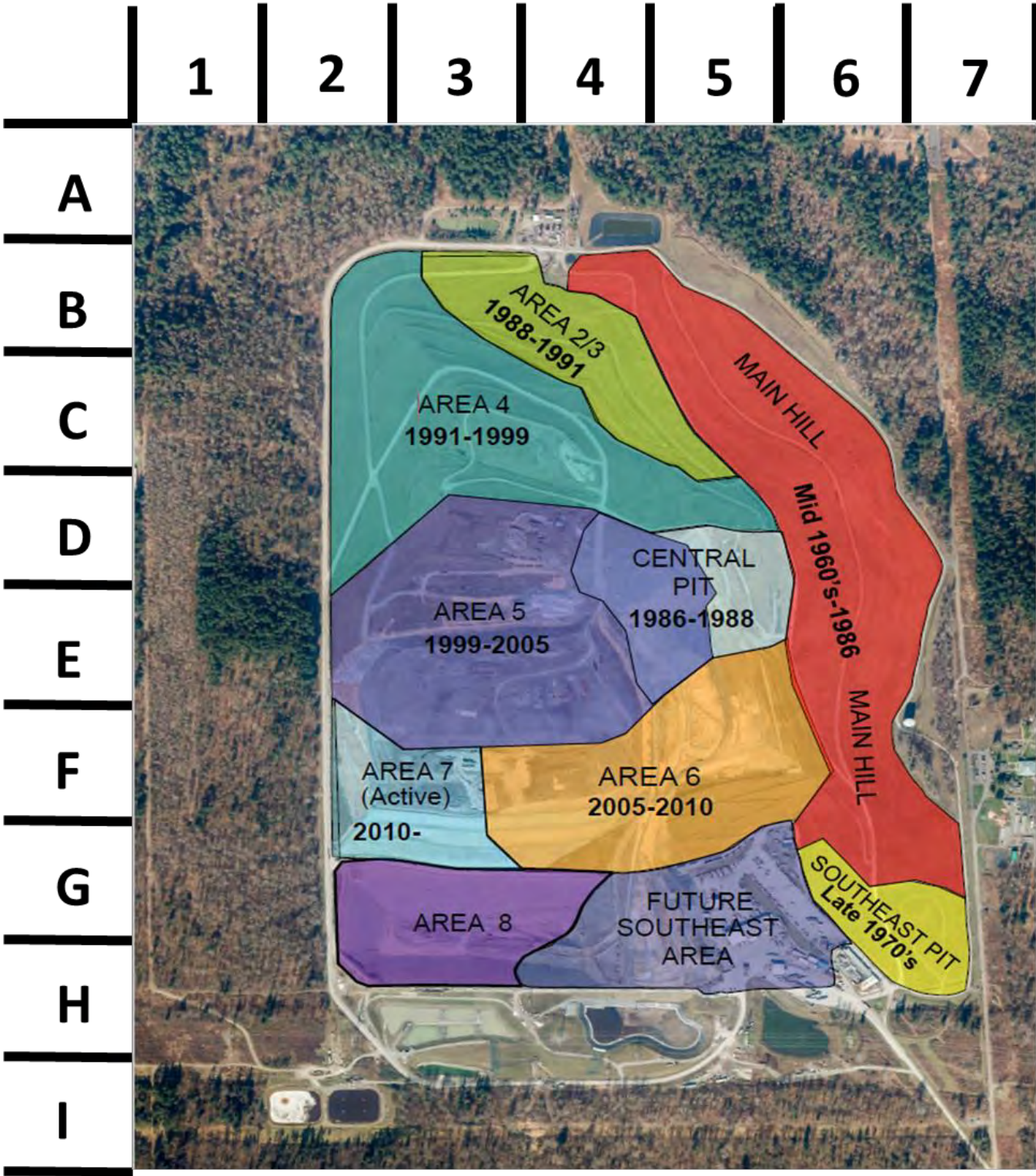
Signature:  Date: Mar 6, 2023
DocuSigned by: 2868F7B7EB4E449...**DULY AUTHORIZED REPRESENTATIVE**

Based on professional judgment, which of the following statements is true: (select one)

X *The site is in compliance with the terms and conditions of the SWPPP and the ISGP.* *The site is NOT in compliance with the terms and conditions of the SWPPP and the ISGP*.*

* Immediately notify Environmental Compliance Coordinator

*I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.*Printed name: Scott Barden or Joseph Newton; Landfill Supervisor/ManagerSignature:  Date: Mar 6, 2023
DocuSigned by: 97F5C1E8E78F4E4...



SOLID WASTE DIVISION**Cedar Hills Regional Landfill Monthly Facility Inspection****Site Inspection: Permit Compliance**Inspected By: Samantha Guthrie + Subrina Tahsin Date: 02/28/2023Location: Cedar Hills Ambient Temperature: (35°F) Weather Condition: Overcast, Frozen +Some Snow**ACTION CODES**

A. Gas System	Good	Fair	Poor	C. Landfill Operations	Good	Fair	Poor	E. Roadway System	Good	Fair	Poor
1. Pipe Penetrations	X			1. Fueling Stations	X			1. Road Sweeping	X		
2. Collection Piping	X			2. Vehicle Wash Stations	X			2. Access Roads	X		
3. Extraction Wells	X			3. Equipment	X			3. Road Erosion	X		
4. Monitoring Probes	X			4. Boundary Fences		X		4. Road Pavement	X		
5. Valve Stations	X			5. Vegetation		X		5. Lane Striping	X		
6. North Flare Station	X			6. Landfill Cover	X						
7. Migration Flare	X			7. Drain Rock	X						
8. Noise Control	X			8. Air Quality	X			F. Other Items		X	
9. Air Compressors	X			9. Stockpiles	X						
				10. Vectors	X						
B. Leachate System				11. Litter	X						
1. Pump Station 1	X			12. Dust Control	X						
2. Pump Station 2	X			13. Other							
3. Pump Station 3	X										
4. Pump Station 4	X			D. Stormwater System							
5. Lagoon Facilities	X			1. CSW Pond		X					
6. Lagoon Aerators	X			2. North Siltation Pond	X						
7. Collection System:	X			3. North SW Lagoon	X						
a. Collection Pipes	X			4. South SW Lagoon	X						
b. Force Mains	X			5. South Siltation Pond	X						
c. Manholes	X			6. Sand Filter		X					
d. Cleanouts	X			7. CB/ Control Structures	X						
8. Generators	X			8. Pipes/Culverts	X						
9. Extraction Wells	X			9. Trash Racks		X					
10. Valves/Cleanouts	X			10. Ditches		X					
11. Groundwater	X			11. Best Management		X					
				12. Compliance Points	X						
				13. Other							

Item No.	Action Code (s)	Area Code(s) (See below or over for map) Area Map		Status			State Reason if “Fair or Poor”, include remedy to get item to ‘Good’	Date Corrective Action Implemented
				Good	Fair	Poor		
1	K	A6			X		Rills on the west side of Area 6 should be filled, compacted and hydroseeded	
2	K	A6			X		Degraded plastic sheeting on the west side of Area 6 should be removed/replaced.	
3	K	A6			X		Some silt fences on the west side of Area 6 should be reattached.	
4	K	A6			X		A body of water has formed on the south slope of Area 6. This area should be regraded to prevent the accumulation of water.	WO underway to address a re-design and construction planned for Q2/3 2023.
5	K	A6			X		Damaged triangular silt dikes on the south slope of Area 6 should be repaired or replaced.	
6	K	A6			X		Rill on the south slope of Area 6 should be filled, compacted and hydroseeded. Triangular silt dikes should be installed upstream of this rill to slow the speed of water.	
7	I	A6			X		Two stormwater trash racks are clogged on the south slope of Area 6 and should be unclogged.	
8	K	A6			X		Several silt fences north of Area 6 are damaged and the fabric has come loose. Several silt fences are being short circuited. One set of fences are no longer necessary. The fences should be repaired, and the fabric should be reattached. The unnecessary fences should be removed.	
9	J	A2/3 & A4			X		Stormwater ditches on the north sides of Areas 2/3 and Area 4 are damaged in two locations and should be repaired with sheet metal.	
10	K	A7			X		Some sloughing and erosion damage on the west slope of Area 7 in two locations and a bare slope in one location. These locations should be filled, compacted and hydroseeded as necessary.	Temporary repair initiated week of January 23, 2023 – stormwater berms covered by contractor to minimize damage.
11	K	A7			X		One check dam on the west stormwater ditch of Area 7 has been damaged and should be repaired.	
12	K	A5			X		Two bodies of water on Area 5 should be investigated and the area should be	

							regraded to prevent the accumulation of water.	
13	K	A5			X		A strip drain should be added on the road to the top deck of A7 to allow for drivable top and proper drainage – currently just carved out – damages will increase.	
14	K	A4			X		Body of water on the west slope of Area 4 should be regraded to prevent the accumulation of water.	
15	K	A23 & A4			X		One stormwater trash racks is clogged on the west slope of Area 2/3 or Area 4 and should be unclogged.	

AREA CODES (Cedar Hills):

Area 2/3 = A2/3

Area 7 = A7

East Main Hill = EMH

Southwest Main Hill = SWMH

Area 4 = A4

Area 8 = A8

Leachate Lagoon = LL

Stockpile = SP

Area 5 = A5

Central Pit = CP

North Flare Station = NFS

Area 6 = A6

CSW Lagoon = CSW

Southeast Pit Area = SEPA

State the needs of the repairs in the suggested remedy box.

1. *Emergency*
2. *Regulatory Priority*
3. *Safety Priority*
4. *Maintenance Priority*
 - a. *Urgent*
 - b. *Routine*
 - c. *Deferred*

Overall site description day of site inspection: Overall the site is maintained. Sand filter on the south end of the landfill has some trash that needs to be removed. Rills on the west side of Area 6 should be filled, compacted and hydroseeded. Degraded plastic sheeting on the west slope of Area 6 should be removed/replaced. Material on the silt fences on the west side of Area 6 have come unattached and should be reattached to prevent further damage. A body of water on the south slope of Area 6 has formed and should be regraded to prevent the accumulation of water. Damaged triangular silt dikes on the south slope of Area 6 should be repaired and replaced. A rill was found on the south slope of Area 6 that should be filled, compacted and hydroseeded. Additionally triangular silt dikes should be installed upstream to slow the movement of water. A workorder is underway to address the design issues with this location and construction is planned for Q2/Q3 of 2023.

Silt fences north of Area 6 are damaged and the fabric has come loose. Several fences are being short circuited, and one set is no longer needed. These fences should be repaired, fabric should be reattached to the posts and the fence no longer needed should be removed. The Area 2/3 or Area 4 north stormwater ditch is damaged in two locations and should be repaired with sheet metal. There is sloughing on the west side of Area 7 in three locations these locations should be filled, compacted and hydroseeded. A check dam was damaged in the west stormwater ditch of Area 7 due to heavy rains. This check dam should be repaired. Two bodies of water on the south slope of Area 5 has formed and should be regraded to prevent the accumulation of water. A body of water on Area 4 has formed and should be regraded to prevent the accumulation of water. Two stormwater trash racks on the south slope of Area 6 and one on the west slope of Area 2/3 are clogged and should be unclogged and monitored long-term to limit trash accumulation.

Photos taken during the site inspection can be found at: P:\SWPublic\CHL_Public\CH Monthly Site Inspections\SW Inspections\SW Inspection 23\02 - Feb 23

<i>Category number:</i>	Action to be Completed. Suggested Remedy:
<i>Category number:</i>	Action to be Completed. Suggested Remedy:

SWPPP Modifications Necessary? (Circle Y or N)

If Y, log changes in Appendix I of SWPPP

Potential Pollutant Sources Y (N)

Site Map Y (N)

INSPECTION REPORT SIGNATURE PAGE

INSPECTION DATE: 02/28/2023 SITE: Cedar Hills Regional Landfill

INSPECTOR / QUALIFIED PERSONNEL

Based on professional judgment, which of the following statements is true: (select one)

X *The site is in compliance with the terms and conditions of the SWPPP and the ISGP.*

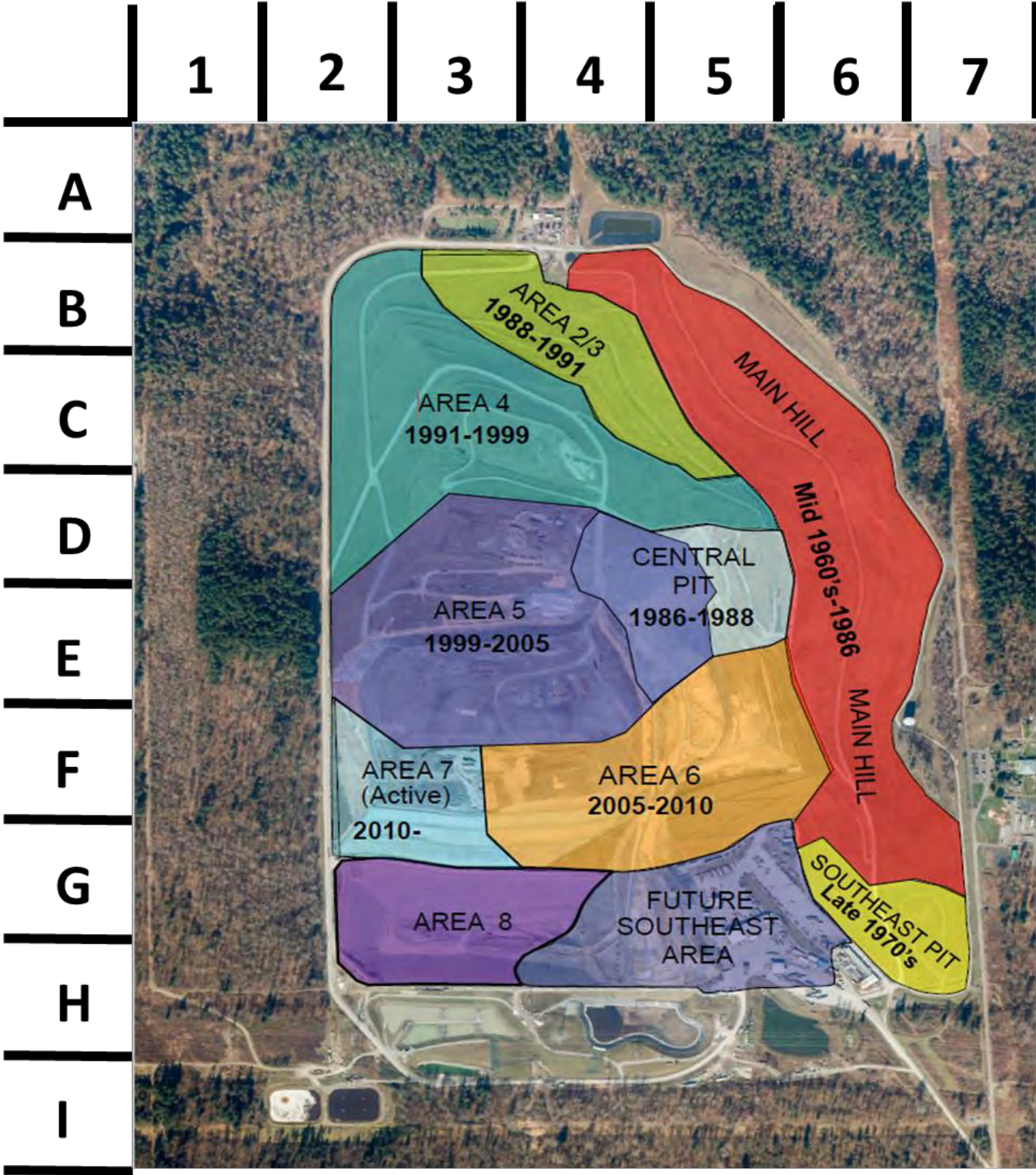
 The site is NOT in compliance with the terms and conditions of the SWPPP and the ISGP.*

* Immediately notify Environmental Compliance Coordinator

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

Printed name: Samantha Guthrie

Signature:  Date: Mar 6, 2023



SOLID WASTE DIVISION**Cedar Hills Regional Landfill Monthly Facility Inspection****Site Inspection: Stormwater Permit Compliance (ISGP Permit # WAR000756)**Inspected By: Samantha Guthrie + Subrina Tahsin Date: 3/29/2023Location: Cedar Hills Ambient Temperature: (48°F) Weather Condition: Mostly cloudy**Inspection Requirements**

1. Observations of the discharge points were stormwater leaves the site (N4, GS1, and SL3).
2. Observations for the presence of floating materials, visible oil sheen, discoloration, turbidity, odor, etc. in stormwater leaving site (See field sheets for that information).
3. Observations for the presence of an illicit discharge.
4. Verification that the descriptions of potential pollutant sources in this SWPPP are accurate.
5. Verification that the site map in this SWPPP is accurate.
6. Assessment of BMPs for effectiveness, maintenance needs, and any deficiencies warranting new or different BMP's than those implemented at the time of the inspection.

Stormwater System Action Code	Good	Fair	Poor	Comments
A. CSW Pond		X		Summer 2023 repair project.
B. North Siltation Pond	X			Silt fence needs to be watched and repair (if needed)
C. North SW Lagoon (Lined Lagoon)	X			
D. South SW Pond	X			
E. South Siltation Pond	X			
F. South Sand Filter		X		Some garbage debris was noted on the northeast corner and needs to be removed.
G. CB/ Control Structures	X			
H. Pipes/Culverts	X			
I. Trash Racks	X			
J. Ditches		X		Stormwater ditches on the north sides of Areas 2/3 (A2/3) and Area 4 (A4) are damaged and are in need of repair. Utility is to order materials.
K. Best Management Practices		X		On the west side of A6 there are rills, degraded plastic sheeting and some silt fences have become unattached. On the south slope of A6 there are a body of water, damaged triangular silt dikes and a rill. On the north side of A6 there are several damaged silt fences. On the west side of Area 7 there is soughing, erosion damage and a damaged check dam. There are some water bodies on A4 and Area 5. There is a clogged stormwater trash rack on the west slope of A2/3 or A4.
L. Compliance Points:	X			
a. SW-N4	X			
b. SW-GS1	X			General Trail Maintenance and tree removal for safety.
c. SW-SL3	X			
e. Other	X			

Item No.	Action Code(s)	Area Code(s) (See below or over for map) Area Map		Status			State Reason if “Fair or Poor”, include remedy to get item to ‘Good’	Date Corrective Action Implemented
				Good	Fair	Poor		
1	D11	A6			X		Rills on the west side of Area 6 should be filled, compacted and hydroseeded	In progress – by utilities
2	D11	A6			X		Degraded plastic sheeting on the west side of Area 6 should be removed/replaced.	In progress – by utilities
3	D11	A6			X		Some silt fences on the west side of Area 6 should be reattached.	In progress – by utilities
4	D11	A6			X		A body of water has formed on the south slope of Area 6. This area should be regraded to prevent the accumulation of water.	WO is underway to address a re-design and construction planned for Q2/3 2023.
5	D11	A6			X		Damaged triangular silt dikes on the south slope of Area 6 should be repaired or replaced.	
6	D11	A6			X		Rill on the south slope of Area 6 should be filled, compacted and hydroseeded. Triangular silt dikes should be installed upstream of this rill to slow the speed of water.	
7	D12	A6				X	Several silt fences north of Area 6 are damaged and the fabric has come loose. Several silt fences are being short circuited. One set of fences are no longer necessary. The fences should be repaired, and the fabric should be reattached. The unnecessary fences should be removed.	Bring attention to Utility Crew & Schedule Work
8	D8	A2/3 & A4			X		Stormwater ditches on the north sides of Areas 2/3 and Area 4 are damaged in two locations and should be repaired with sheet metal.	Bring attention to Utility Crew & Schedule Work
9	C6	A7			X		Some sloughing and erosion damage on the west slope of Area 7 in two locations and a bare slope in one location. These locations should be filled, compacted and hydroseeded as necessary.	Temporary repair-initiated week of January 23, 2023 – stormwater berms covered by contractor to minimize damage. By march inspection, utility crew addressed sloughing and erosion damages. Need to keep an eye.

10	C6	A7				X	One check dam on the west stormwater ditch of Area 7 has been damaged and should be repaired.	Bring attention to Utility Crew & Schedule Work
11	D11	A5				X	Two bodies of water on Area 5 should be investigated and the area should be regraded to prevent the accumulation of water.	Minor. In-progress
12	D11	A5				X	A strip drain should be added on the road to the top deck of A7 to allow for drivable top and proper drainage – currently just carved out – damages will increase.	In-progress
13	D11	A4				X	Body of water on the west slope of Area 4 should be regraded to prevent the accumulation of water.	PHSKC investigated. Work in-progress
14	D9	A23 & A4				X	One stormwater trash racks is clogged on the west slope of Area 2/3 or Area 4 and should be unclogged.	Bring attention to Engineering & Utility Crew - Schedule Work
15	C4	A5				X	Silt fences west of central pit are damaged, the fabric has come loose. The fences should be repaired (E4 in the Map)	Bring attention to Utility Crew & Schedule Work

AREA CODES (Cedar Hills):

Area 2/3 = A2/3

Area 7 = A7

East Main Hill = EMH

Southwest Main Hill = SWMH

Area 4 = A4

Area 8 = A8

Leachate Lagoon = LL

Stockpile = CP

Area 5 = A5

Central Pit = CP

North Flare Station = NFS

Area 6 = A6

CSW Lagoon = CSW

Southeast Pit Area = SEPA

State the needs of the repairs in the suggested remedy box.

1. *Emergency*
2. *Regulatory Priority*
3. *Safety Priority*
4. *Maintenance Priority*
 - a. *Urgent*
 - b. *Routine*
 - c. *Deferred*

Overall site description day of site inspection: Overall the site is maintained. Sand filter on the south end of the landfill has some trash that needs to be removed. Rills on the west side of Area 6 should be filled, compacted and hydroseeded and by March inspection, the work is in progress. Degraded plastic sheeting on the west slope of Area 6 should replacement work in progress. Material on the silt fences on the west side of Area 6 have come unattached, reattachment work in progress to prevent further damage. A body of water on the south slope of Area 6 has formed and should be regraded to prevent the accumulation of water. Damaged triangular silt dikes on the south slope of Area 6 should be repaired and replaced. A rill was found on the south slope of Area 6 that should be filled, compacted and hydroseeded. Additionally triangular silt dikes should be installed upstream to slow the movement of water. A workorder is underway to address the design issues with this location and construction is planned for Q2/Q3 of 2023.

Silt fences north of Area 6 are damaged and the fabric has come loose. Several fences are being short circuited, and one set is no longer needed. These fences should be repaired, fabric should be reattached to the posts and the fence no longer needed should be removed. The Area 2/3 or Area 4 north stormwater ditch is damaged in two locations and should be repaired with sheet metal. There is sloughing on the west side of Area 7 in three locations these locations should be filled, compacted and hydroseeded. A check dam was damaged in the west stormwater ditch of Area 7 due to heavy rains. This check dam should be repaired and needs attention now. Two bodies of water on the south slope of Area 5 have formed and regrading to drain the accumulated water properly is in progress. A body of water on Area 4 has formed, PHSKC inspected and noted. Work to regrade to prevent the accumulation of water is in progress.

Photos taken during the site inspection can be found at: P:\SWPublic\CHL_Public\CH Monthly Site Inspections\SW Inspections\SW Inspection 23\03 - Mar 23\March Photos

<i>Category number:</i>	Action to be Completed. Suggested Remedy:
<i>Category number:</i>	Action to be Completed. Suggested Remedy:

SWPPP Modifications Necessary? (Circle Y or N)

If Y, log changes in Appendix I of SWPPP

Potential Pollutant Sources Y/N

Site Map Y/N

INSPECTION REPORT SIGNATURE PAGEINSPECTION DATE: 3/29/2023 SITE: Cedar Hills Regional Landfill**INSPECTOR / QUALIFIED PERSONNEL**

Based on professional judgment, which of the following statements is true: (select one)

X *The site is in compliance with the terms and conditions of the SWPPP and the ISGP.* *The site is NOT in compliance with the terms and conditions of the SWPPP and the ISGP*.*

* Immediately notify Environmental Compliance Coordinator

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

Printed name: Subrina Tahsin and Samantha Guthrie; Inspection Engineer

Signature:  Date: May 8, 2023

DocuSigned by:
2868F7B7EB4E449...

DULY AUTHORIZED REPRESENTATIVE

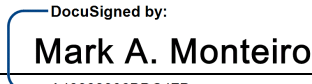
Based on professional judgment, which of the following statements is true: (select one)

X *The site is in compliance with the terms and conditions of the SWPPP and the ISGP.* *The site is NOT in compliance with the terms and conditions of the SWPPP and the ISGP*.*

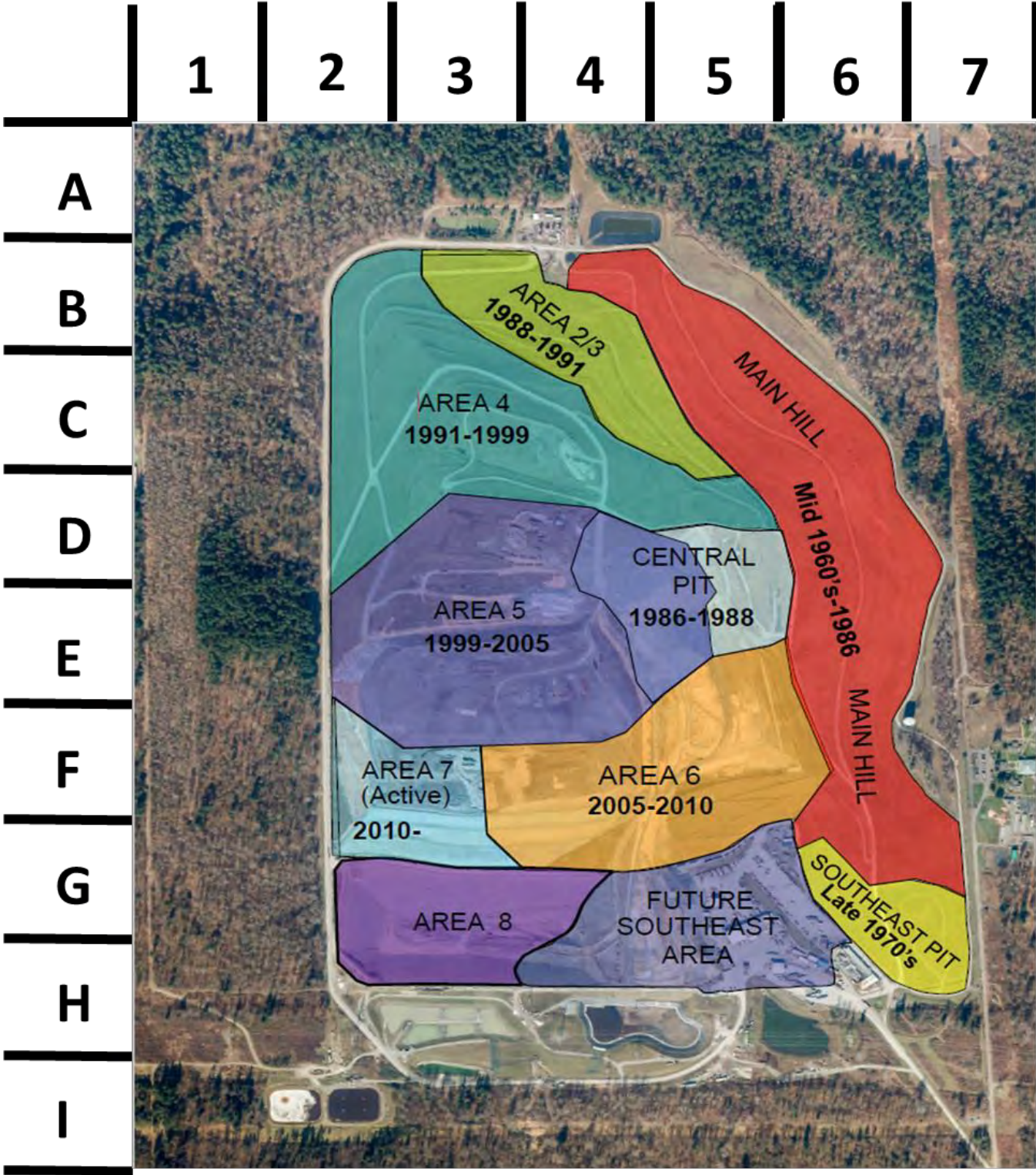
* Immediately notify Environmental Compliance Coordinator

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Printed name: Mark Monteiro Landfill Supervisor/Manager

Signature:  Date: May 8, 2023

DocuSigned by:
A49393306BDC47D...



SOLID WASTE DIVISION**Cedar Hills Regional Landfill Monthly Facility Inspection****Site Inspection: Permit Compliance**Inspected By: Samantha Guthrie + Subrina Tahsin Date: 03/29/2023Location: Cedar Hills Ambient Temperature: (48°F) Weather Condition: Mostly cloudy**ACTION CODES**

A. Gas System	Good	Fair	Poor	C. Landfill Operations	Good	Fair	Poor	E. Roadway System	Good	Fair	Poor
1. Pipe Penetrations	X			1. Fueling Stations	X			1. Road Sweeping	X		
2. Collection Piping	X			2. Vehicle Wash Stations	X			2. Access Roads	X		
3. Extraction Wells	X			3. Equipment	X			3. Road Erosion	X		
4. Monitoring Probes	X			4. Boundary Fences		X		4. Road Pavement	X		
5. Valve Stations	X			5. Vegetation		X		5. Lane Striping	X		
6. North Flare Station	X			6. Landfill Cover	X						
7. Migration Flare	X			7. Drain Rock	X						
8. Noise Control	X			8. Air Quality	X			F. Other Items		X	
9. Air Compressors	X			9. Stockpiles	X						
				10. Vectors	X						
B. Leachate System				11. Litter	X						
1. Pump Station 1	X			12. Dust Control	X						
2. Pump Station 2	X			13. Other							
3. Pump Station 3	X										
4. Pump Station 4	X			D. Stormwater System							
5. Lagoon Facilities	X			1. CSW Pond		X					
6. Lagoon Aerators	X			2. North Siltation Pond	X						
7. Collection System:	X			3. North SW Lagoon	X						
a. Collection Pipes	X			4. South SW Lagoon	X						
b. Force Mains	X			5. South Siltation Pond	X						
c. Manholes	X			6. Sand Filter		X					
d. Cleanouts	X			7. CB/ Control Structures	X						
8. Generators	X			8. Pipes/Culverts	X						
9. Extraction Wells	X			9. Trash Racks	X						
10. Valves/Cleanouts	X			10. Ditches		X					
11. Groundwater	X			11. Best Management		X					
				12. Compliance Points	X						
				13. Other							

Item No.	Action Code(s)	Area Code(s) (See below or over for map) Area Map		Status			State Reason if “Fair or Poor”, include remedy to get item to ‘Good’	Date Corrective Action Implemented
				Good	Fair	Poor		
1	D11	A6			X		Rills on the west side of Area 6 should be filled, compacted and hydroseeded	In progress – by utilities
2	D11	A6			X		Degraded plastic sheeting on the west side of Area 6 should be removed/replaced.	In progress – by utilities
3	D11	A6			X		Some silt fences on the west side of Area 6 should be reattached.	In progress – by utilities
4	D11	A6			X		A body of water has formed on the south slope of Area 6. This area should be regraded to prevent the accumulation of water.	WO is underway to address a re-design and construction planned for Q2/3 2023.
5	D11	A6			X		Damaged triangular silt dikes on the south slope of Area 6 should be repaired or replaced.	
6	D11	A6			X		Rill on the south slope of Area 6 should be filled, compacted and hydroseeded. Triangular silt dikes should be installed upstream of this rill to slow the speed of water.	
7	D12	A6			X		Several silt fences north of Area 6 are damaged and the fabric has come loose. Several silt fences are being short circuited. One set of fences are no longer necessary. The fences should be repaired, and the fabric should be reattached. The unnecessary fences should be removed.	Bring attention to Utility Crew & Schedule Work
8	D8	A2/3 & A4			X		Stormwater ditches on the north sides of Areas 2/3 and Area 4 are damaged in two locations and should be repaired with sheet metal.	Bring attention to Utility Crew & Schedule Work
9	C6	A7			X		Some sloughing and erosion damage on the west slope of Area 7 in two locations and a bare slope in one location. These locations should be filled, compacted and hydroseeded as necessary.	Temporary repair-initiated week of January 23, 2023 – stormwater berms covered by contractor to minimize damage. By march inspection, utility crew addressed sloughing and erosion damages. Need to keep an eye.
10	C6	A7			X		One check dam on the west stormwater ditch of Area 7 has been damaged and should be repaired.	Bring attention to Utility Crew & Schedule Work
11	D11	A5			X		Two bodies of water on Area 5 should be investigated and the area should be regraded to prevent the accumulation of	Minor. In-progress

							water.	
12	D11	A5			X		A strip drain should be added on the road to the top deck of A7 to allow for drivable top and proper drainage – currently just carved out – damages will increase.	In-progress
13	D11	A4			X		Body of water on the west slope of Area 4 should be regraded to prevent the accumulation of water.	PHSKC investigated. Work in-progress
14	D9	A23 & A4			X		One stormwater trash racks is clogged on the west slope of Area 2/3 or Area 4 and should be unclogged.	Bring attention to Engineering and Utility Crew & Schedule Work
15	C4	4. Boundary Fences (west perimeter)			X		Fence needs repair	
16	E2	South access road			X		Muddy road: needs soil and rock to stabilize	Bring attention to Utility Crew & Schedule Work

AREA CODES (Cedar Hills):

Area 2/3 = A2/3

Area 7 = A7

East Main Hill = EMH

Southwest Main Hill = SWMH

Area 4 = A4

Area 8 = A8

Leachate Lagoon = LL

Stockpile = SP

Area 5 = A5

Central Pit = CP

North Flare Station = NFS

Area 6 = A6

CSW Lagoon = CSW

Southeast Pit Area = SEPA

State the needs of the repairs in the suggested remedy box.

1. *Emergency*
2. *Regulatory Priority*
3. *Safety Priority*
4. *Maintenance Priority*
 - a. *Urgent*
 - b. *Routine*
 - c. *Deferred*

Overall site description day of site inspection: Overall the site is maintained. Sand filter on the south end of the landfill has some trash that needs to be removed. Rills on the west side of Area 6 should be filled, compacted and hydroseeded and by March inspection, the work is in progress. Degraded plastic sheeting on the west slope of Area 6 should replacement work in progress. Material on the silt fences on the west side of Area 6 have come unattached, reattachment work in progress to prevent further damage. A body of water on the south slope of Area 6 has formed and should be regraded to prevent the accumulation of water. Damaged triangular silt dikes on the south slope of Area 6 should be repaired and replaced. A rill was found on the south slope of Area 6 that should be filled, compacted and hydroseeded. Additionally triangular silt dikes should be installed upstream to slow the movement of water. A workorder is underway to address the design issues with this location and construction is planned for Q2/Q3 of 2023.

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<i>Category number:</i>	Action to be Completed. Suggested Remedy:
<i>Category number:</i>	Action to be Completed. Suggested Remedy:

SWPPP Modifications Necessary? (Circle Y or N)

If Y, log changes in Appendix I of SWPPP

Potential Pollutant Sources Y ☒ N

Site Map Y ☒ N

INSPECTION REPORT SIGNATURE PAGE

INSPECTION DATE: 03/29/2023 SITE: Cedar Hills Regional Landfill

INSPECTOR / QUALIFIED PERSONNEL

Based on professional judgment, which of the following statements is true: (select one)

X *The site is in compliance with the terms and conditions of the SWPPP and the ISGP.*

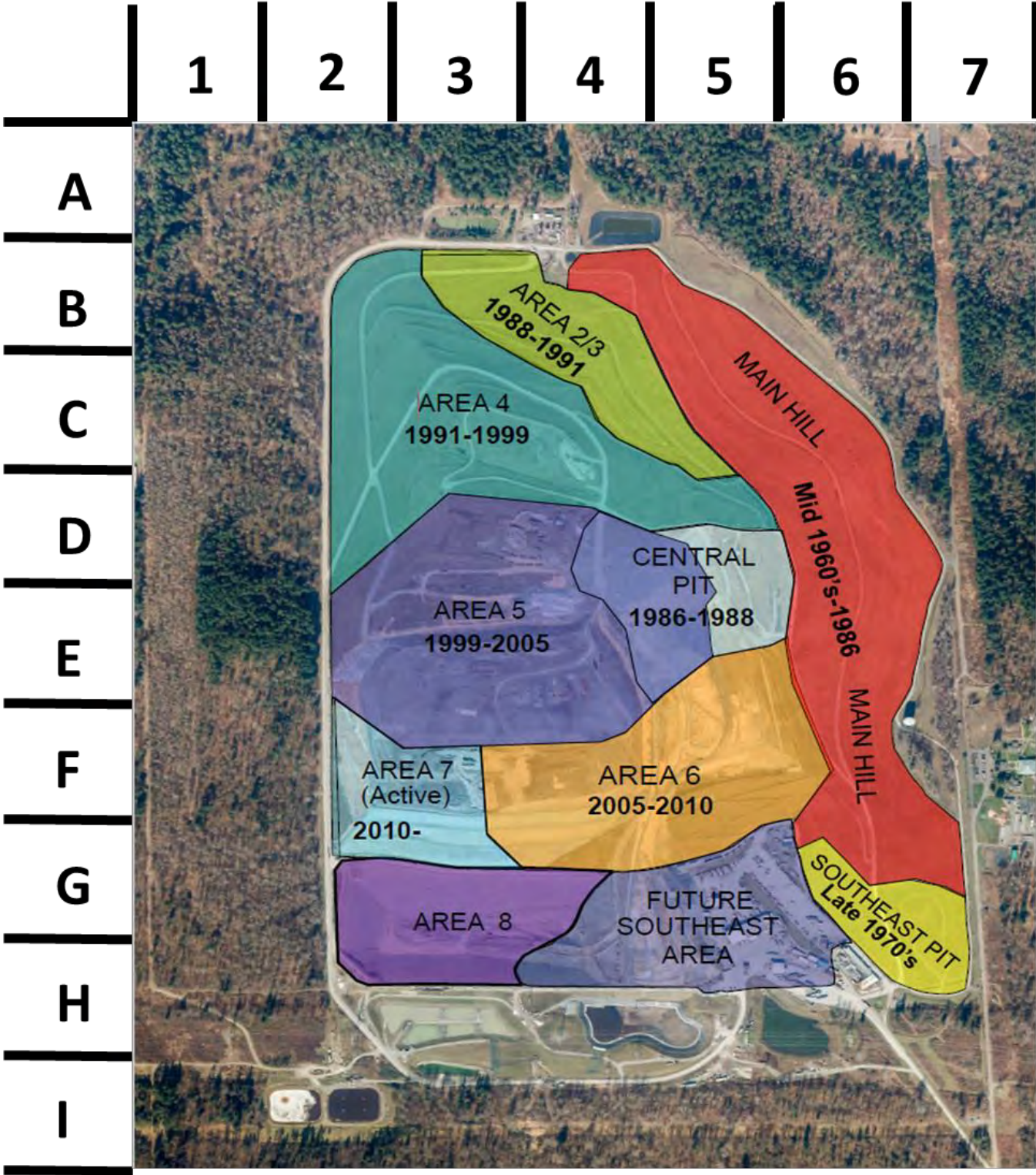
 The site is NOT in compliance with the terms and conditions of the SWPPP and the ISGP.*

* Immediately notify Environmental Compliance Coordinator

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

Printed name: Subrina Tahsin and Samantha Guthrie; Inspection Engineer

Signature:  Date: May 8, 2023



SOLID WASTE INSPECTION REPORT

PUBLIC HEALTH - SEATTLE & KING COUNTY Downtown Office 401 - 5th Ave., Ste 1100 Seattle, WA 98104 206-263-9566	PURPOSE OF VISIT: Routine Inspection/Field Review of a Municipal Landfill establishment (PE=1006)
ESTABLISHMENT INFORMATION: CEDAR HILLS SANITARY LAND CEDAR HILLS SANITARY LAND 16645 228TH AV SE MAPLE VALLEY, WA 98038 206-296-4385 Program Record: PR0015736	INSPECTION INFORMATION: Date of Inspection: Thursday, February 23, 2023 Time In: 12:10 pm Time Out: 2:39 pm Inspector: Jeromeo Cruz Result: SATISFACTORY

VIOLATIONS OBSERVED (if any)

-0818-Access must be controlled (public /animal/vehicle). Barriers must be maintained.

Owners or operators of all MSWLF units must control public access and prevent unauthorized vehicular traffic, illegal dumping of wastes, and controls to keep animals out by using artificial barriers, natural barriers, or both, as appropriate to protect human health and the environment. WAC 173-351-200 (6)

-0838-Litter must be controlled

All owners or operators of MSWLF units must operate the facility so as to collect scattered litter as necessary to prevent vector harborage, a fire hazard, an aesthetic nuisance, or adversely affect wildlife or its habitat. WAC 173-351-220 (2)

OVERALL INSPECTION COMMENTS:

Actions and Recommendations:

1. Plastic bags and other litter appear to have worsened along the road west of Area 8. Litter was observed blowing across road, gathering in ditches and trees and other vegetation (pictures will be provided upon request). (WAC 173-351-220(2) requires collecting scattered litter to prevent vector harborage, a fire hazard, an aesthetic nuisance, and adversely affect wildlife or its habitat. Public Health recommends periodic (monthly) removal of windblown litter as part of maintenance activities.
2. Ponding continues to be observed at the Area 5 West area where soil stockpiles and surplus heavy equipment are kept. WAC 173-351-500(2)(a)(i) requires preventing run-on and runoff from eroding or otherwise damaging the final cover.
3. Sections of perimeter fence along southwest corner and southern property boundary continue to need repair and maintenance (see inspection report dated 11/16/2022). WAC 173-351-200(6) requires that the owner or operator control public access and prevent unauthorized vehicular traffic, illegal dumping of wastes, and controls to keep animals out by using artificial barriers, natural barriers, or both, as appropriate to protect human health and the environment.

Observations:

- One aerator at the west leachate lagoon was operating at the time of the visit. The aerator in the east leachate lagoon was off.
- Plywood boards with marker stakes were observed along the east peripheral road. Based on my observation that some had depressions and bentonite spots, it would appear to be the abandoned extraction well settlement reported last 2/17/2023.
- Fire extinguishers at Trailer No. 4 are due for inspection next month.
- Brief review of UWRs (Unacceptable Waste Reports) continue to show instances where unacceptable waste was noted. Photos would be taken and/or the driver spoken to, but the load would be deposited at the transfer station and not turned away for various reasons.



Jerome Cruz
Environmental Scientist III

PIC Phone #:

Email:

Scott Barden
Assistant Operations Manager - SWD

The following items are evaluated during inspections.
Violations cited as out of compliance during this inspection are highlighted below.
Out=out of compliance

OUT**Additional Operating Criteria WAC 173-351-220(1)**

- ☐ 0837-Road dust must be controlled
- ☒ 0838-Litter must be controlled
- ☐ 0839-Scavenging must be prohibited
- ☐ 0840-Staffing must be a minimum 2 personnel on site with one at the active portion when open
- ☐ 0841-Certification of operators of solid waste landfills must be current
- ☐ 0842-Reserve operational equipment must be available and adequate
- ☐ 0843-Active area boundaries must be clearly marked
- ☐ 0844-Must compact solid waste before succeeding layers are added per WAC
- ☐ 0845-Maintain monitoring systems for groundwater, explosive gas and other monitoring per permit
- ☐ 0846-Provide orderly and sanitary recycling methods to general public unless alternatives provided
- ☐ 0847-Prohibit disposal of dangerous waste unless DWR are met
- ☐ 0848-Must allow inspections by public health

Annual Report

- ☐ 0828-Annual report due April 1st

Closure and post-closure care WAC 173-351-500

- ☐ 0852-Equipment used for groundwater monitoring is maintained
- ☐ 0856-Final cover installed to minimize, infiltration and erosion per design
- ☐ 0857-Closure plan followed for areas of the MSWLF unit within 30 days of final receipt of wa-stes
- ☐ 0858-For closed areas, closure activities must be completed within 180 days
- ☐ 0859-For closed areas post closure care must be conducted per post-closure plan and WAC
- ☐ 0860-Final cover for closed areas must be maintained (vegetation, settlement, erosion,# run on/off)
- ☐ 0861-Leachate collection systems maintained and operated per post-closure plan and WAC 173-351-300
- ☐ 0862-Gas monitoring systems maintained and operated per post-closure plan and WAC 173-351-200

Design Criteria New MSWLF expansion 173-351-300

- ☐ 0849-New MSWLF units and expansions have approved liner & leachate collection system construction

Groundwater sampling and analysis requirements WAC 173-351-410

- ☐ 0853-Roundwater monitoring must be accordance with an approved sampling / analysis document

Liquids Restrictions

- ☐ 0826-Containers holding liquid waste may not be placed in a MSWLF unit unless meet 200 (9)(b)(i-iii)

MSLF Groundwater reporting WAC 173-351-415

- ☐ 0854-Annual groundwater report due by April 1st
- ☐ 0855-Quarterly groundwater monitoring reports submitted

MSLF Leachate Managementfor Surface Impoundments WAC 173-350-330**Design Standards - Surface Impoundments**

- ☐ 0740-Embankments and slopes must be maintained and be in good condition
- ☐ 0741-Freeboard for the surface impoundment is > 18 inches or as specified per the permit

Ground Water monitoring requirment for surface impoundment and tanks

- ☐ 0766-Surface impoundments not equipped with a leak detection layer must meet WAC 173-350-500
- ☐ 0767-Surface impoundments w/a leak detection layer are subject to WAC 173-350-040 (5), 173-350-330(b)

OUT**Operating standards - Surface Impoundments and tanks**

- ☐ 0750-Must prevent overfilling and maintain required freeboard = 18 inches from wave action/precip
- ☐ 0751-Must control access to the site
- ☐ 0752-Must control nuisance odors for wastes or liquids
- ☐ 0753-Must control birds at impoundments storing wastes capable of attracting birds
- ☐ 0754-Records kept of weekly inspections and liner inspections at least every 5 years
- ☐ 0755-Daily records kept on-site of the quantity and type of wastes removed for at least 5 years

Operating Criteria WAC 173-351-200**Access Restriction**

- ☐ 0819-Lockable gate at each entry must be maintained and in good condition

Air Criteria

- ☐ 0816-MSWLF units must meet all applicable air standards
- ☐ 0817-Open burning of garbage is prohibited. Other types of burning only under appropriate permit
- ☒ 0818-Access must be controlled (public /animal/vehicle). Barriers must be maintained.

Cover Material Requirements

- ☐ 0806-Approved cover material must be applied at a depth of 6 in# at the end of the day or as needed
- ☐ 0807-Only approved alternative cover materials are in use and are applied at an approved depth

Disease Vectors Controlled

- ☐ 0808-Procedures must be in place to control disease vectors e g. (rodents, flies, mosquitoes, other)

Explosive Gases Control

- ☐ 0809-Methane gas must not exceed 25% of lower explosive limit for facility structures
- ☐ 0810-Methane gas concentration must not exceed lower explosive limit at the property boundary-beyond
- ☐ 0811-Methane gas concentration must not exceed 100ppm/volume of methane in offsite structures
- ☐ 0812-Explosive gases must be controlled and a routine methane monitoring program in place
- ☐ 0813-Monitoring for explosive gas occurs quarterly at a minimum
- ☐ 0814-Required measures must be taken if methane gas levels exceed limits (notify, monitor, evacuate)
- ☐ 0815-Must have procedures for methane gas level exceedance (gas levels, interim steps, remediation)

Incoming Waste Management

- ☐ 0800-Procedures must be in place for excluding the receipt of prohibited waste
- ☐ 0801-Random inspections must be conducted for incoming loads to prevent receipts of prohibited waste
- ☐ 0802-Record must be kept of random inspections of incoming loads to prevent prohibited waste
- ☐ 0803-Facility personnel must be trained to recognize prohibited wastes and training logs kept
- ☐ 0804-Immediate notification to Public Health and Ecology for any prohibited waste discovered

Performance Standards

- ☐ 0290-Must not pose a threat to human health or environment
- ☐ 0291-Protects from ground water contamination
- ☐ 0292-The facility must conform to the approved local comprehensive solid waste management plan
- ☐ 0293-Complies with RCW 70.94 Emission or ambient air quality standards

- ☐ 0294-Complies with all other local/state/federal laws and regulations

Performance Standards for groundwater monitoring

System Design

- ☐ 0850-All groundwater monitoring system must be designed and maintained per WAC 173-351-405
- ☐ 0851-All wells must be clearly labeled, capped and locked

Permit Requirements

- ☐ 0863-Permit Required

Plan of Operation

- ☐ 0829-Plan of operation is current, complete and a hard copy present at the permit approved location
- ☐ 0830-Operators handle solid waste as described in plan of operations
- ☐ 0831-Operators conducting inspections per plan of operation
- ☐ 0832-Plan of operation procedures followed for fire or explosion
- ☐ 0833-Plan of operation procedures followed for actions to take for sudden releases of gas, leachate
- ☐ 0834-Maintain and operate leachate and gas collection equipment per plan of operation
- ☐ 0835-Safety equipment listed in plan of operation must be on-site and working (shower, eyewash)
- ☐ 0836-Any additional requirements by Public Health are followed as outlined on the plan of operation

Record Keeping

- ☐ 0827-Operating record is available at the approved location and is complete for all required records

Run-on/runoff Control Systems

- ☐ 0820-Prevent run-on to the active portion of the landfill during the peak discharge from 25yr storm
- ☐ 0821-Must provide runoff control for active portions to collect & control water vol. 24hr/25yr storm
- ☐ 0822-Runoff from active portion of the landfill must be handled in accordance w. WAC 173-351-200(8)

Surface Water Requirements

- ☐ 0823-MSWLF units must not discharge pollutants into waters of the state
- ☐ 0824-Must not cause the discharge of a nonpoint source pollution to waters of the state
- ☐ 0825-Bulk or non-containerized liquid waste may not be placed in MSWLF unit unless exceptions allow

SOLID WASTE INSPECTION REPORT

PUBLIC HEALTH - SEATTLE & KING COUNTY Downtown Office 401 - 5th Ave., Ste 1100 Seattle, WA 98104 206-263-9566	PURPOSE OF VISIT: Routine Inspection/Field Review of a Municipal Landfill establishment (PE=1006)
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VIOLATIONS OBSERVED (if any)

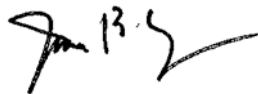
OVERALL INSPECTION COMMENTS:

Actions and Recommendations:

1. Plastic bags were observed in trees that line the road west of Area 8, however, less amounts than last inspection. WAC 173-351-220(2) requires collecting scattered litter to prevent vector harborage, a fire hazard, an aesthetic nuisance, and adversely affect wildlife or its habitat. Thank you for your continued work to pick this litter.
2. Some ponding continues to be observed at the Area 5 West area where soil stockpiles and surplus heavy equipment are kept. WAC 173-351-500(2)(a)(i) requires preventing run-on and runoff from eroding or otherwise damaging the final cover.
3. Perimeter fence along southwest corner and southern property boundary has portions that continue to need repair maintenance (see inspection report dated 11/16/2022). WAC 173-351-200(6) requires that the owner or operator control public access and prevent unauthorized vehicular traffic, illegal dumping of wastes, and controls to keep animals out by using artificial barriers, natural barriers, or both, as appropriate to protect human health and the environment.

Observations:

- One aerator at the west leachate lagoon was operating at the time of the visit. The aerator in the east leachate lagoon was off.
- Plywood boards with marker stakes were observed along the east peripheral road. Based on my observation that some had depressions and bentonite spots, it would appear to be the decommissioned extraction well settlement reported last 2/17/2023



Jerome Cruz
Environmental Scientist III



Scott Barden
Assistant Operations Manager - SWD

PIC Phone #:

Email:

INSPECTION CHECKLIST

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MSLF Leachate Managementfor Surface Impoundments**WAC 173-350-330****Design Standards - Surface Impoundments**

- ☐ 0740-Embankments and slopes must be maintained and be in good condition
- ☐ 0741-Freeboard for the surface impoundment is > 18 inches or as specified per the permit

Ground Water monitoring requirment for surface impoundment and tanks

- ☐ 0766-Surface impoundments not equipped with a leak detection layer must meet WAC 173-350-500
- ☐ 0767-Surface impoundments w/a leak detection layer are subject to WAC 173-350-040 (5), 173-350-330(b)

OUT**Operating standards - Surface Impoundments and tanks**

- ☐ 0750-Must prevent overfilling and maintain required freeboard = 18 inches from wave action/precip
- ☐ 0751-Must control access to the site
- ☐ 0752-Must control nuisance odors for wastes or liquids
- ☐ 0753-Must control birds at impoundments storing wastes capable of attracting birds
- ☐ 0754-Records kept of weekly inspections and liner inspections at least every 5 years
- ☐ 0755-Daily records kept on-site of the quantity and type of wastes removed for at least 5 years

Operating Criteria WAC 173-351-200**Access Restriction**

- ☐ 0819-Lockable gate at each entry must be maintained and in good condition

Air Criteria

- ☐ 0816-MSWLF units must meet all applicable air standards
- ☐ 0817-Open burning of garbage is prohibited. Other types of burning only under appropriate permit
- ☐ 0818-Access must be controlled (public /animal/vehicle). Barriers must be maintained.

Cover Material Requirements

- ☐ 0806-Approved cover material must be applied at a depth of 6 in# at the end of the day or as needed
- ☐ 0807-Only approved alternative cover materials are in use and are applied at an approved depth

Disease Vectors Controlled

- ☐ 0808-Procedures must be in place to control disease vectors e.g. (rodents, flies, mosquitoes, other)

Explosive Gases Control

- ☐ 0809-Methane gas must not exceed 25% of lower explosive limit for facility structures
- ☐ 0810-Methane gas concentration must not exceed lower explosive limit at the property boundary-beyond
- ☐ 0811-Methane gas concentration must not exceed 100ppm/volume of methane in offsite structures
- ☐ 0812-Explosive gases must be controlled and a routine methane monitoring program in place
- ☐ 0813-Monitoring for explosive gas occurs quarterly at a minimum
- ☐ 0814-Required measures must be taken if methane gas levels exceed limits (notify, monitor, evacuate)
- ☐ 0815-Must have procedures for methane gas level exceedance (gas levels, interim steps, remediation)

Incoming Waste Management

- ☐ 0800-Procedures must be in place for excluding the receipt of prohibited waste
- ☐ 0801-Random inspections must be conducted for incoming loads to prevent receipts of prohibited waste
- ☐ 0802-Record must be kept of random inspections of incoming loads to prevent prohibited waste
- ☐ 0803-Facility personnel must be trained to recognize prohibited wastes and training logs kept
- ☐ 0804-Immediate notification to Public Health and Ecology for any prohibited waste discovered

Performance Standards

- ☐ 0290-Must not pose a threat to human health or environment
- ☐ 0291-Protects from ground water contamination
- ☐ 0292-The facility must conform to the approved local comprehensive solid waste management plan
- ☐ 0293-Complies with RCW 70.94 Emission or ambient air quality standards

- ☐ 0294-Complies with all other local/state/federal laws and regulations

Performance Standards for groundwater monitoring

System Design

- ☐ 0850-All groundwater monitoring system must be designed and maintained per WAC 173-351-405
- ☐ 0851-All wells must be clearly labeled, capped and locked

Permit Requirements

- ☐ 0863-Permit Required

Plan of Operation

- ☐ 0829-Plan of operation is current, complete and a hard copy present at the permit approved location
- ☐ 0830-Operators handle solid waste as described in plan of operations
- ☐ 0831-Operators conducting inspections per plan of operation
- ☐ 0832-Plan of operation procedures followed for fire or explosion
- ☐ 0833-Plan of operation procedures followed for actions to take for sudden releases of gas, leachate
- ☐ 0834-Maintain and operate leachate and gas collection equipment per plan of operation
- ☐ 0835-Safety equipment listed in plan of operation must be on-site and working (shower, eyewash)
- ☐ 0836-Any additional requirements by Public Health are followed as outlined on the plan of operation

Record Keeping

- ☐ 0827-Operating record is available at the approved location and is complete for all required records

Run-on/runoff Control Systems

- ☐ 0820-Prevent run-on to the active portion of the landfill during the peak discharge from 25yr storm
- ☐ 0821-Must provide runoff control for active portions to collect & control water vol. 24hr/25yr storm
- ☐ 0822-Runoff from active portion of the landfill must be handled in accordance w. WAC 173-351-200(8)

Surface Water Requirements

- ☐ 0823-MSWLF units must not discharge pollutants into waters of the state
- ☐ 0824-Must not cause the discharge of a nonpoint source pollution to waters of the state
- ☐ 0825-Bulk or non-containerized liquid waste may not be placed in MSWLF unit unless exceptions allow

Cedar Hills Area 5 Maintenance

for the period 01/01/2023 to 03/31/2023

Click the blue 'Y' to see notes

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
Area 5						
	CHAREA5	0000027120	CLOSED	Monthly Gas System PM	01/28/2023	N
	CHAREA5	0000027120	CLOSED	Monthly Stormwater PM	01/28/2023	N
	CHAREA5	0000027120	CLOSED	Monthly Cover System PM	01/28/2023	N
	CHAREA5	0000027256	CLOSED	Monthly Gas System PM	02/26/2023	N
	CHAREA5	0000027256	CLOSED	Monthly Stormwater PM	02/26/2023	N
	CHAREA5	0000027256	CLOSED	Monthly Cover System PM	02/26/2023	N
	CHAREA5	0000027400	CLOSED	Monthly Gas System PM	03/31/2023	N
	CHAREA5	0000027400	CLOSED	Monthly Stormwater PM	03/31/2023	N
	CHAREA5	0000027400	CLOSED	Monthly Cover System PM	03/31/2023	N
	CHAREA5E	0000027046	CLOSED	Monthly Header PM	01/11/2023	N
	CHAREA5E	0000027184	CLOSED	Monthly Header PM	02/14/2023	N
	CHAREA5W	0000027045	CLOSED	Monthly Header PM	01/11/2023	N
	CHAREA5W	0000027183	CLOSED	Monthly Header PM	02/14/2023	N
	CHAREA5W	0000027318	CLOSED	Monthly Header PM	03/13/2023	N

Cedar Hills Landfill Storm Water Pollution Prevention Plan Maintenance

for the period 01/01/2023 to 03/31/2023

Click the blue 'Y' to see notes

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
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Catch Basins

Cedar Hills	0000056126	CLOSED	PMM	01/03/2023	N
Cedar Hills	0000056421	CLOSED	PMM	02/02/2023	N
Cedar Hills	0000056640	CLOSED	PMM	03/06/2023	N

Trash Racks

Cedar Hills	0000056392	CLOSED	PMW	01/03/2023	N
Cedar Hills	0000056420	CLOSED	PMW	01/11/2023	N
Cedar Hills	0000056519	CLOSED	PMW	01/17/2023	N
Cedar Hills	0000056564	CLOSED	PMW	02/04/2023	N
Cedar Hills	0000056652	CLOSED	PMW	02/07/2023	N
Cedar Hills	0000056693	CLOSED	PMW	02/16/2023	N
Cedar Hills	0000056768	CLOSED	PMW	02/23/2023	N
Cedar Hills	0000056812	CLOSED	PMW	02/27/2023	N
Cedar Hills	0000056850	CLOSED	PMW	03/06/2023	N
Cedar Hills	0000056904	CLOSED	PMW	03/14/2023	N
Cedar Hills	0000056976	CLOSED	PMW	03/20/2023	N
Cedar Hills	0000057038	CLOSED	PMW	03/29/2023	N

Ditches

Cedar Hills	0000056126	CLOSED	PMM	01/03/2023	N
Cedar Hills	0000056392	CLOSED	PMW	01/03/2023	N
Cedar Hills	0000056420	CLOSED	PMW	01/11/2023	N
Cedar Hills	0000056421	CLOSED	PMM	02/02/2023	N
Cedar Hills	0000056519	CLOSED	PMW	01/17/2023	N
Cedar Hills	0000056564	CLOSED	PMW	02/04/2023	N
Cedar Hills	0000056640	CLOSED	PMM	03/06/2023	N
Cedar Hills	0000056652	CLOSED	PMW	02/07/2023	N
Cedar Hills	0000056693	CLOSED	PMW	02/16/2023	N
Cedar Hills	0000056768	CLOSED	PMW	02/23/2023	N
Cedar Hills	0000056812	CLOSED	PMW	02/27/2023	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	Cedar Hills	0000056850	CLOSED	PMW	03/06/2023	N
	Cedar Hills	0000056904	CLOSED	PMW	03/14/2023	N
	Cedar Hills	0000056976	CLOSED	PMW	03/20/2023	N
	Cedar Hills	0000057038	CLOSED	PMW	03/29/2023	N

Ponds/Lagoons

Cedar Hills	0000056392	CLOSED	PMW	01/03/2023	N
Cedar Hills	0000056420	CLOSED	PMW	01/11/2023	N
Cedar Hills	0000056519	CLOSED	PMW	01/17/2023	N
Cedar Hills	0000056564	CLOSED	PMW	02/04/2023	N
Cedar Hills	0000056652	CLOSED	PMW	02/07/2023	N
Cedar Hills	0000056693	CLOSED	PMW	02/16/2023	N
Cedar Hills	0000056768	CLOSED	PMW	02/23/2023	N
Cedar Hills	0000056812	CLOSED	PMW	02/27/2023	N
Cedar Hills	0000056850	CLOSED	PMW	03/06/2023	N
Cedar Hills	0000056904	CLOSED	PMW	03/14/2023	N
Cedar Hills	0000056976	CLOSED	PMW	03/20/2023	N
Cedar Hills	0000057038	CLOSED	PMW	03/29/2023	N

General

Cedar Hills	0000056392	CLOSED	PMW	01/03/2023	N
Cedar Hills	0000056420	CLOSED	PMW	01/11/2023	N
Cedar Hills	0000056519	CLOSED	PMW	01/17/2023	N
Cedar Hills	0000056564	CLOSED	PMW	02/04/2023	N
Cedar Hills	0000056652	CLOSED	PMW	02/07/2023	N
Cedar Hills	0000056693	CLOSED	PMW	02/16/2023	N
Cedar Hills	0000056768	CLOSED	PMW	02/23/2023	N
Cedar Hills	0000056812	CLOSED	PMW	02/27/2023	N
Cedar Hills	0000056850	CLOSED	PMW	03/06/2023	N
Cedar Hills	0000056904	CLOSED	PMW	03/14/2023	N
Cedar Hills	0000056976	CLOSED	PMW	03/20/2023	N
Cedar Hills	0000057038	CLOSED	PMW	03/29/2023	N

Leachate System

CHPS4	0000056367	CLOSED	PMW	01/03/2023	N
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Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	CHPS4	0000056435	CLOSED	PMW	01/10/2023	N
	CHPS4	0000056533	CLOSED	PMW	01/16/2023	N
	CHPS4	0000056569	CLOSED	PMW	02/01/2023	N
	CHPS4	0000056633	CLOSED	PMW	02/06/2023	N
	CHPS4	0000056675	CLOSED	PMW	02/13/2023	N
	CHPS4	0000056726	CLOSED	PMW	02/21/2023	N
	CHPS4	0000056781	CLOSED	PMW	02/27/2023	N
	CHPS4	0000056840	CLOSED	PMW	03/10/2023	N
	CHPS4	0000056961	CLOSED	PMW	03/14/2023	N
	CHPS4	0000056983	CLOSED	PMW	03/19/2023	N
	CHPS4	0000057028	CLOSED	PMW	03/27/2023	N
	LEPS	0000056110	CLOSED	PMM	01/03/2023	N
	LEPS	0000056365	CLOSED	PMW	01/03/2023	N
	LEPS	0000056433	CLOSED	PMW	01/10/2023	N
	LEPS	0000056441	CLOSED	PMM	01/30/2023	N
	LEPS	0000056531	CLOSED	PMW	01/16/2023	N
	LEPS	0000056567	CLOSED	PMW	02/01/2023	N
	LEPS	0000056599	CLOSED	PMM	03/06/2023	N
	LEPS	0000056631	CLOSED	PMW	02/06/2023	N
	LEPS	0000056673	CLOSED	PMW	02/13/2023	N
	LEPS	0000056724	CLOSED	PMW	02/21/2023	N
	LEPS	0000056779	CLOSED	PMW	02/27/2023	N
	LEPS	0000056838	CLOSED	PMW	03/10/2023	N
	LEPS	0000056959	CLOSED	PMW	03/14/2023	N
	LEPS	0000056981	CLOSED	PMW	03/19/2023	N
	LEPS	0000057026	CLOSED	PMW	03/27/2023	N
	CHPS1	0000056363	CLOSED	PMW	01/03/2023	N
	CHPS1	0000056439	CLOSED	PMW	01/10/2023	N
	CHPS1	0000056537	CLOSED	PMW	01/16/2023	N
	CHPS1	0000056573	CLOSED	PMW	02/01/2023	N
	CHPS1	0000056637	CLOSED	PMW	02/06/2023	N
	CHPS1	0000056679	CLOSED	PMW	02/13/2023	N
	CHPS1	0000056730	CLOSED	PMW	02/21/2023	N
	CHPS1	0000056785	CLOSED	PMW	02/27/2023	N
	CHPS1	0000056844	CLOSED	PMW	03/10/2023	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	CHPS1	0000056965	CLOSED	PMW	03/14/2023	N
	CHPS1	0000056987	CLOSED	PMW	03/19/2023	N
	CHPS1	0000057032	CLOSED	PMW	03/27/2023	N
	CHPS2	0000056370	CLOSED	PMW	01/03/2023	N
	CHPS2	0000056438	CLOSED	PMW	01/10/2023	N
	CHPS2	0000056536	CLOSED	PMW	01/16/2023	N
	CHPS2	0000056572	CLOSED	PMW	02/01/2023	N
	CHPS2	0000056636	CLOSED	PMW	02/06/2023	N
	CHPS2	0000056678	CLOSED	PMW	02/13/2023	N
	CHPS2	0000056729	CLOSED	PMW	02/21/2023	N
	CHPS2	0000056784	CLOSED	PMW	02/27/2023	N
	CHPS2	0000056843	CLOSED	PMW	03/10/2023	N
	CHPS2	0000056964	CLOSED	PMW	03/14/2023	N
	CHPS2	0000056986	CLOSED	PMW	03/19/2023	N
	CHPS2	0000057031	CLOSED	PMW	03/27/2023	N
	CHPS3	0000056368	CLOSED	PMW	01/03/2023	N
	CHPS3	0000056436	CLOSED	PMW	01/10/2023	N
	CHPS3	0000056534	CLOSED	PMW	01/16/2023	N
	CHPS3	0000056570	CLOSED	PMW	02/01/2023	N
	CHPS3	0000056634	CLOSED	PMW	02/06/2023	N
	CHPS3	0000056676	CLOSED	PMW	02/13/2023	N
	CHPS3	0000056727	CLOSED	PMW	02/21/2023	N
	CHPS3	0000056782	CLOSED	PMW	02/27/2023	N
	CHPS3	0000056841	CLOSED	PMW	03/10/2023	N
	CHPS3	0000056962	CLOSED	PMW	03/14/2023	N
	CHPS3	0000056984	CLOSED	PMW	03/19/2023	N
	CHPS3	0000057029	CLOSED	PMW	03/27/2023	N

Landfill Cover

CHSTOCKPILE	0000027117	CLOSED	PMV	01/28/2023	N
CHAPONDS	0000027118	CLOSED	PMV	01/28/2023	N
CHAREA4	0000027119	CLOSED	PMV	01/28/2023	N
CHAREA5	0000027120	CLOSED	PMV	01/28/2023	N
CHAREA6	0000027121	CLOSED	PMV	01/28/2023	N
CHAREAS23	0000027124	CLOSED	PMV	01/28/2023	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	CHCENTRALPIT	0000027125	CLOSED	PMV	01/28/2023	N
	CHEMH	0000027126	CLOSED	PMV	01/28/2023	N
	CHSEPA	0000027127	CLOSED	PMV	01/28/2023	N
	CHSSWA	0000027128	CLOSED	PMV	01/28/2023	N
	CHSWMH	0000027129	CLOSED	PMV	01/28/2023	N
	CHNFLARESTN	0000027130	CLOSED	PMV	01/28/2023	N
	CHSTOCKPILE	0000027253	CLOSED	PMV	02/26/2023	N
	CHAPONDS	0000027254	CLOSED	PMV	02/26/2023	N
	CHAREA4	0000027255	CLOSED	PMV	02/26/2023	N
	CHAREA5	0000027256	CLOSED	PMV	02/26/2023	N
	CHAREA6	0000027257	CLOSED	PMV	02/26/2023	N
	CHAREAS23	0000027260	CLOSED	PMV	02/26/2023	N
	CHCENTRALPIT	0000027261	CLOSED	PMV	02/26/2023	N
	CHEMH	0000027262	CLOSED	PMV	02/26/2023	N
	CHSEPA	0000027263	CLOSED	PMV	02/26/2023	N
	CHSSWA	0000027264	CLOSED	PMV	02/26/2023	N
	CHSWMH	0000027265	CLOSED	PMV	02/26/2023	N
	CHNFLARESTN	0000027266	CLOSED	PMV	02/26/2023	N
	CHSTOCKPILE	0000027397	CLOSED	PMV	03/31/2023	N
	CHAPONDS	0000027398	CLOSED	PMV	03/31/2023	N
	CHAREA4	0000027399	CLOSED	PMV	03/31/2023	N
	CHAREA5	0000027400	CLOSED	PMV	03/31/2023	N
	CHAREA6	0000027401	CLOSED	PMV	03/31/2023	N
	CHAREAS23	0000027404	CLOSED	PMV	03/31/2023	N
	CHCENTRALPIT	0000027405	CLOSED	PMV	03/31/2023	N
	CHEMH	0000027406	CLOSED	PMV	03/31/2023	N
	CHSEPA	0000027407	CLOSED	PMV	03/31/2023	N
	CHSSWA	0000027408	CLOSED	PMV	03/31/2023	N
	CHSWMH	0000027409	CLOSED	PMV	03/31/2023	N
	CHNFLARESTN	0000027410	CLOSED	PMV	03/31/2023	N

Landfill Gas

CHEMH	0000027095	CLOSED	PMW	01/03/2023	N
CHEMH	0000027169	CLOSED	PMW	01/23/2023	N
CHEMH	0000027232	CLOSED	PMW	02/01/2023	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	CHEMH	0000027304	CLOSED	PMW	02/15/2023	N
	CHEMH	0000027375	CLOSED	PMW	03/09/2023	N
	CHEMH	0000027448	CLOSED	PMW	03/25/2023	N
	CHAREAS23	0000027083	CLOSED	PMW	01/08/2023	N
	CHAREAS23	0000027159	CLOSED	PMW	01/29/2023	N
	CHAREAS23	0000027220	CLOSED	PMW	02/08/2023	N
	CHAREAS23	0000027295	CLOSED	PMW	02/23/2023	N
	CHAREAS23	0000027362	CLOSED	PMW	03/04/2023	N
	CHAREAS23	0000027439	CLOSED	PMW	03/16/2023	N
	CHAREA6	0000027042	CLOSED	PMW	01/10/2023	N
	CHAREA6	0000027133	CLOSED	PMW	01/17/2023	N
	CHAREA6	0000027180	CLOSED	PMW	02/06/2023	N
	CHAREA6	0000027269	CLOSED	PMW	02/21/2023	N
	CHAREA6	0000027315	CLOSED	PMW	03/03/2023	N
	CHAREA6	0000027413	CLOSED	PMW	03/16/2023	N
	CHSEPA	0000027073	CLOSED	PMW	01/11/2023	N
	CHSEPA	0000027152	CLOSED	PMW	01/24/2023	N
	CHSEPA	0000027210	CLOSED	PMW	02/04/2023	N
	CHSEPA	0000027288	CLOSED	PMW	02/16/2023	N
	CHSEPA	0000027351	CLOSED	PMW	03/21/2023	N
	CHSEPA	0000027432	CLOSED	PMW	03/30/2023	N
	CHCMH	0000027065	CLOSED	PMW	01/07/2023	N
	CHCMH	0000027146	CLOSED	PMW	01/21/2023	N
	CHCMH	0000027202	CLOSED	PMW	02/06/2023	N
	CHCMH	0000027282	CLOSED	PMW	02/23/2023	N
	CHCMH	0000027342	CLOSED	PMW	03/07/2023	N
	CHCMH	0000027342	CLOSED	PMW	03/14/2023	N
	CHCMH	0000027342	CLOSED	PMW	03/15/2023	N
	CHCMH	0000027426	CLOSED	PMW	03/29/2023	N
	CHCMH	0000027426	CLOSED	PMW	03/30/2023	N
	CHCMH	0000027426	CLOSED	PMW	03/31/2023	N
	CHAREA5E	0000027101	CLOSED	PMW	01/06/2023	N
	CHAREA5E	0000027170	CLOSED	PMW	01/19/2023	N
	CHAREA5E	0000027237	CLOSED	PMW	02/06/2023	N
	CHAREA5E	0000027305	CLOSED	PMW	02/15/2023	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	CHAREA5E	0000027380	CLOSED	PMW	03/02/2023	N
	CHAREA5E	0000027449	CLOSED	PMW	03/17/2023	N
	CHAREA5W	0000027102	CLOSED	PMW	01/07/2023	N
	CHAREA5W	0000027171	CLOSED	PMW	01/20/2023	N
	CHAREA5W	0000027238	CLOSED	PMW	02/02/2023	N
	CHAREA5W	0000027306	CLOSED	PMW	02/15/2023	N
	CHAREA5W	0000027381	CLOSED	PMW	03/04/2023	N
	CHAREA5W	0000027450	CLOSED	PMW	03/18/2023	N

Landfill Roads

CHSTOCKPILE	0000027117	CLOSED	PMR	01/28/2023	N
CHSTOCKPILE	0000027253	CLOSED	PMR	02/26/2023	N
CHSTOCKPILE	0000027397	CLOSED	PMR	03/31/2023	N
CHACTIVEAREA	0000027108	CLOSED	PMR	01/28/2023	N
CHACTIVEAREA	0000027244	CLOSED	PMR	02/26/2023	N
CHACTIVEAREA	0000027388	CLOSED	PMR	03/31/2023	N
CHPSR	0000027110	CLOSED	PMR	01/28/2023	N
CHPSR	0000027246	CLOSED	PMR	02/26/2023	N
CHPSR	0000027390	CLOSED	PMR	03/31/2023	N
CHMAINGATE	0000027109	CLOSED	PMR	01/28/2023	N
CHMAINGATE	0000027245	CLOSED	PMR	02/26/2023	N
CHMAINGATE	0000027389	CLOSED	PMR	03/31/2023	N

Landfill Roads

Sweeper	0	see Equipment Operator Spreadsheet	NA	0	N
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Equipment

Click the word 'Equipment' to see Work Order Numbers

Appendix B:

Gas Monitoring Reports



SCALE

A6IS007E
26-MAR-2023
500 PPM
0 PPM
5-APR-2023
0 PPM
25-APR-2023

A6IS0006
26-MAR-2023
900 PPM
0 PPM
5-APR-2023
0 PPM
25-APR-2023

AREA 8

AREAS WHERE PATH
DOES NOT CHANGE
AREAS WHERE PATH
MAY CHANGE DUE
TO CONSTRUCTION

COVER PENETRATION EMISSION SOURCE

DNRP / King County Solid Waste Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 3-15-23

Cal. Time: 8:35 am

Calibration :

Test Instrument used: SEM 5000

Technician: BL

Surveyor P J

Cal. Gas Lot No: 4035462 - 4912991

Cal Gas Used:

CH₄ 500 ppm

O2 Ultra Zero Air

Barometric Pressure	Time
Start 29.92	9:00 AM
Stop 30.10	4:15 pm

90% response time in seconds:

1 3 seconds

2 3 seconds

3 3 seconds

avg. 3 seconds

Weather Conditions: Partly Cloudy

Wind Speed &

Direction (out of): 6 mph SW

[illegible]

DNRP / King County Solid Waste Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 3-16-23

Cal. Time: 7:40 AM

Calibration :

Technician: BL

Test Instrument used: SEM 5000

Surveyor PS

Cal. Gas Lot No: 4035462 - 4912991

Cal Gas Used:

CH4 500 ppm

O2 Ultra Zero Air

Barometric Pressure	Time
Start <u>30.11</u>	<u>7:40 AM</u>
Stop	<u>4:00 PM</u>

90% response time in seconds:

1 3 seconds

2 3 seconds

3 3 seconds

avg. 3 seconds

Weather Conditions: Sunny

Wind Speed &

Direction (out of): 3 mph NE

Northing (UTM #)	Easting (10 T #)	Time	Comments
<u>No</u>	<u>Exceedences</u>		

DNRP / King County Solid Waste Serpentine Surface Monitoring Data

Landfill Site: CEDAR HILLS

Date: 3/28/23

Cal. Time: 7:00 AM

Calibration :

Test Instrument used: SEM 5000

Technician: RS

Surveyor PS

Cal. Gas Lot No: 4912991, 4035462

Cal Gas Used:

CH₄ 560 ppm

O₂ Zero div

Barometric Pressure	Time
Start 29.97	7:00 AM
Stop 29.88	5:00 PM

90% response time in seconds:

1.4 seconds

2 3 seconds .

3 seconds

avg. 3.33 seconds

Weather Conditions: CLEAR

Wind Speed &

Direction (out of): SE 2 mph

[illegible]

DNRP / King County Solid Waste Serpentine Surface Monitoring Data

Landfill Site: CEDAR HILLS

Date: 3/25/23

Cal. Time: 7:45AM

Calibration :

Test Instrument used: SEM 5000

Technician: RS

Cal. Gas Lot No: 4912991, 425462

Surveyor: PJ

Cal Gas Used:

CH₄ 500 ppm

O₂ Zero air

Barometric Pressure	Time
Start <u>30.11</u>	<u>7:00AM</u>
Stop <u>30.10</u>	<u>3:00PM</u>

90% response time in seconds:

1 3 seconds

2 3 seconds

3 3 seconds

avg. 3 seconds

Weather Conditions: Mostly Cloudy

Wind Speed &

Direction (out of): 2 mph, S

Northing (UTM #)	Easting (10 T #)	Time	Comments

No Exceedance

DNRP / King County Solid Waste Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 3-26-23

Cal. Time: 9:30

Calibration :

Technician: CS

Test Instrument used: SEM 5000

Surveyor SP

Cal. Gas Lot No: 4912981, 4035462

Cal Gas Used:

CH₄ 500 PPM

O₂ ~~the~~ Zero Air

Barometric Pressure	Time
Start 29.76	9:30 am
Stop 29.72	11:30 am

90% response time in seconds:

1 2 seconds

2 1 seconds

3 2 seconds

avg. 2 seconds

Weather Conditions: mostly cloudy

Wind Speed &

Direction (out of): NE 5 mph

[illegible]

DNRP / King County Solid Waste Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills LF Parameters

Date: 29 March 2023

Cal. Time: 2230

Technician: Danien S

Surveyor PS

Calibration :

Test Instrument used: SEN 5000

Cal. Gas Lot No: 4035462 / 4912991

Cal Gas Used:

CH₄ 500 pm

O₂ ULTRA ZERO Air

Barometric Pressure	Time
Start 29.76	2230
Stop 29.75	0100

90% response time in seconds:

1 seconds

2 2 seconds

3 2 seconds

avg. 2 seconds

Weather Conditions: Overcast

Wind Speed &

Direction (out of): Calm

Northing (UTM #)

Easting (10 T #)

Time

Comments

NO EXCEEDANCE NOTED

Jimif

DNRP / King County Solid Waste Serpentine Surface Monitoring Data

Landfill Site: CEDAR HILLS

Date: 3/31/23

Cal. Time: 7:20 AM

Calibration :

Test Instrument used: SFM 5000

Technician: RS

Cal. Gas Lot No: 4912991, 4035462

Surveyor: PJ

Cal Gas Used:

CH₄ 500 pph

O₂ Zero air

Barometric Pressure	Time
Start <u>29.85</u>	<u>7:20 AM</u>
Stop <u>29.86</u>	<u>9:00 AM</u>

90% response time in seconds:

1 3 seconds

2 3 seconds

3 3 seconds

avg. 3 seconds

Weather Conditions: Overcast

Wind Speed &

Direction (out of): SF 2 mph

Northing (UTM #)	Easting (10 T #)	Time	Comments

No Exceedances

10 Days after Exceedance

Date: 4/5/23

Cal. Time: 3:06 pm

Technician: RS

Surveyor PJ

Calibration :

Calibration: SEM 5000

Test Instrument used:

Cal. Gas Lot No: 4912991, 4035482

Cal Gas Used:

CH₄ 500 ppm

O₂ Zero air

Barometric Pressure	Time
Start 36.01	3:00 pm
Stop 30.01	3:30 pm

90% response time in seconds:

1 3 seconds

2 3 seconds

3 3 seconds

avg. 3 seconds

Weather Conditions: Partly Cloudy

Wind Speed &

Direction (out of): SW 5 mph

[illegible]

Landfill Site: CEDAR HILLS

10 Days after Exceedance

Date: 4/5/23

Cal. Time: 3:00 PM

Calibration :

Test Instrument used: SEM 5000

Cal. Gas Lot No: 4035462, 4912991

Cal Gas Used:

CH₄ 500 ppm

O₂ Zero air

Technician: RS

Surveyor: PS

Barometric Pressure	Time
Start <u>30.01</u>	<u>3:00 PM</u>
Stop <u>30.01</u>	<u>3:30 PM</u>

90% response time in seconds:

1 3 seconds
2 3 seconds
3 3 seconds
avg. 3 seconds

Weather Conditions: Partly Cloudy

Wind Speed &
Direction (out of): SW 5 mph

Northing (UTM #)	Easting (10 T #)	Time	Comments
<u>5256793</u>	<u>0572081</u>	<u>3:19 PM</u>	<u>A6157E Ambient</u>

Landfill Site: Cedar Hills

30 Days after Exceedance

Date: 4-25-23

Cal. Time: 12:30

Calibration :

Technician: CS

Test Instrument used: SEM 5000

Surveyor JP

Cal. Gas Lot No: 4035462

Cal Gas Used:

CH₄ 500 PPM

O₂ ULTRA ZERO AIR

Barometric Pressure	Time
Start <u>30.12</u>	<u>12:30</u>
Stop <u>30.12</u>	<u>1:15</u>

90% response time in seconds:

1 3 seconds

2 2 seconds

3 2 seconds

avg. 2 seconds

Weather Conditions: Partly Cloudy

Wind Speed &

Direction (out of): NW 3 mph

Northing (UTM #)	Easting (10 T #)	Time	Comments
<u>5256793</u>	<u>0571081</u>	<u>12:52 PM</u>	<u>ALISOOTE 0 PPM</u>
<u>5256683</u>	<u>0571968</u>	<u>12:45 PM</u>	<u>ALISOOTE 0 PPM</u>

Work Order Report - WO# 0000027386

2/27/2023 1:31:04 PM

HO Company: Gas King County Landfill Gas
HO Department: 7572 Waste Water, LF Gas
HO Shop: Gas Landfill Gas

Equipment: cedar hills License: na

Location: 29 Color:
Year: 2006 Serial: na
Make: UD Engine:
Model: UD
Class: ZZZZZZZZZZZZ Landfill Gas - not classified



TECHNICIAN COPY
WO# 0000027386
Date In: 02/27/2023 13:30
Date Promised: 02/28/2023 13:30
Date Out: 00:00
HO Status: A Last HO# 0000027243
HO Priority: Last HO Date: 01/26/2023
Track Downtime: Y Employee:

Tire Size 1:	GWM:	0
Tire Size 2:	EAC:	24
Transmission:	Department:	7572-Waste Water, LF Gas
Fuel Type1:	Company:	Gas King County Landfill Gas
Fuel Type2:	Site:	20:20- Cedar Hills
Fuel Type3:	Monitor Group:	
Oil Capacity: 0.000	Comments:	
Fuel Cap1: 0.000		
Fuel Cap2: 0.000		

METERS

HO Meter	Reading	Override?	Eg Meter	Actual	LTD
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Type	Cycle	Next Due	Description
I	A - SET AN ANNUAL DATE	07/15/2023	Annual Inspection
Q	0 - MONTHS	03/30/2023	Quarterly Inspection
S	0 - MONTHS	07/15/2023	Scheduled Inspection
X	0 - MONTHS	03/10/2023	Prohibited Activities

MAINTENANCE INFORMATION

Type	Cycle	Date Expires	Description
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REPAIRS

RTV	Description	PHQ per list	Billable	Scheduled, Target	Status	MD	Est. Labor	Shop
PHQ 85	PH Service	PHQ per list	Billable	Scheduled, Target	0	710	0.00000	
PHQ 85	PH Service	PHQ per list	Billable	Scheduled, Target	0	764	0.00000	
PHQ 85	PH Service	PHQ per list	Billable	Scheduled, Target	0	767	0.00000	
PHQ 85	PH Service	PHQ per list	Billable	Scheduled, Target	0	785	0.00000	

NOTES

Work Order Report - WO# 0000027386

2/27/2023 1:31:04 PM

Repair Code:
Equipment: cedar hills
Work Order: 0000027386

NO PART LIST FOR WORK ORDER REPAIR(S) AT THIS TIME.

Work Order Parts List

Work Order Task List

Repair Code: PMQ 85
Equipment: cedar hills
Work Order: 0000027386

Complete?	Step	Tasks	OK	Adjust	Repair	Replace	Comments
	1	Gas - Ck liner integrity- Serpentine walk	<input checked="" type="checkbox"/>				
	1	Gas - Ck liner integrity- Serpentine walk	<input checked="" type="checkbox"/>				
	1	Gas - Ck liner integrity- Serpentine walk					

BL RS CS DNU
3-15-23 3/19/22 10:00 3-21-23 28MAR2023
3-16-23 3/25/23 8:00 3-26-23
3-17-23 3/31/23 1:00 3-27-23
3-28-23