

# CEDAR HILLS REGIONAL LANDFILL QUARTERLY ENVIRONMENTAL MONITORING REPORT

Second Quarter 2019



**King County**

Department of  
Natural Resources and Parks  
**Solid Waste Division**

*Serving*  
**Community** ● *Protecting*  
**Environment** ● *Operating*  
**Excellence**

**August 2019**

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**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 <sup>st</sup> _____ 2 <sup>nd</sup> <input checked="" type="checkbox"/> 3 <sup>rd</sup> _____ 4 <sup>th</sup> _____ YEAR <u>2019</u>	Reference (section, subsection)	Included in this report	Location – page # or appendix #
<b>Quarterly Groundwater Reports: 173-351-415 (2) plus the referenced section</b>			
Statistical calculations and summaries			
Descriptive statistics	420, (1)	<input type="checkbox"/>	
Statistical tests	420, (2)	<input checked="" type="checkbox"/>	3
Notification of statistical increase (if applicable)	420, (4)	<input checked="" type="checkbox"/>	3
Notification of concentrations above Chapter 173-200 WAC criteria (if any)	430, (4)	<input checked="" type="checkbox"/>	27, 28, 40
Static water level readings	415, (2)	<input checked="" type="checkbox"/>	App B
Potentiometric surface elevation maps depicting flow direction	415, (2)	<input checked="" type="checkbox"/>	App A
Flow rate – calculated	415, (2)	<input checked="" type="checkbox"/>	App A
Cation-anion balances	430, (5a)	<input checked="" type="checkbox"/>	29-33, 41
Explanation of greater than 5% (or 10%) difference if needed	430, (5a)	<input type="checkbox"/>	
Trilinear diagrams	430, (5b)	<input checked="" type="checkbox"/>	35, 36, 43, 44
Leachate analyses (if sampled and tested)	415, (2)	<input checked="" type="checkbox"/>	App B
Data entered into EIM database (date entered: _____ )	415, (3)	<input type="checkbox"/>	
Complete copy of the lab report with chain of custody record.		<input type="checkbox"/>	
<b>Annual Groundwater Reports: 173-351-415 (1) YEAR</b>			
Summary of statistical results and trends	415, (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"/>	
<b>For Quarterly and Annual Reports</b>			
Stamped by a licensed professional	RCW 18.220	<input checked="" type="checkbox"/>	v

Keri Martin  
 Signature of Report Author

August 30, 2019  
 Date

Cedar Hills Regional Landfill  
 Landfill


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# 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 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.

<b>Name:</b> Laura Belt, P.E.	<b>Title:</b> Supervising Engineer, Facility Engineering and Science Section	<b>Date:</b> August 30, 2019
<b>Mailing Address:</b> Solid Waste Division King County Department of Natural Resources & Parks 201 South Jackson Street, Suite 701 Seattle, WA 98104-3855		<b>Telephone Number:</b> 206-477-5215
<b>Signature:</b> 		



EXPIRES 8.10.21



**KING COUNTY SOLID WASTE DIVISION  
CEDAR HILLS REGIONAL LANDFILL  
QUARTERLY ENVIRONMENTAL MONITORING REPORT**

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## **Cedar Hills Regional Landfill Summary of Quarterly Environmental Monitoring Second Quarter of 2019**

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 Fourth 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 indicating changing water quality upgradient of CHRLF.

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 and semi-annual 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-69, MW-72, MW-74, MW-75, MW-85, MW-87
Semi Annual Sampled Wells	MW-21, MW-24, MW-56, MW-64, MW-65, MW-73, MW-76, MW-82	MW-67, MW-86, MW-88, MW-89, MW-100

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-69, MW-72, MW-75, MW-87
Semi-Annual Sampled Wells	MW-21, MW-24, MW-65	MW-86, MW-89, MW-100

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-83, MW-93	MW-67, MW-69, MW-72, MW-75, MW-87
Semi-Annual Sampled Wells	MW-21, MW-24, MW-56, MW-64, MW-65	MW-89, MW-100

Exceedances of Primary Ground Water Quality Criteria were observed for Vinyl Chloride as listed below:

	Upgradient and Crossgradient	Downgradient
Quarterly Sampled Wells	---	---
Semi Annual Sampled Wells	MW-65	---

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

	Upgradient and Crossgradient	Downgradient
Quarterly Sampled Wells	---	---
Semi Annual Sampled Wells	MW-82; MW-76*	---

\*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 facie) based on the dissolved ion distribution. The diagrams are useful to recognize spatial and temporal variability, potential analytical error, or change in hydrochemical facie. All regional samples are within the calcium-magnesium-bicarbonate hydrochemical facie. 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 2018. Calculated prediction limits and analytical results for Appendix I parameters are presented in Table 5 and summarized below.

	Upgradient and Crossgradient	Downgradient
Quarterly Sampled Wells	MW-59 (cis-1,2 dichloroethene) MW-84 (total barium)	---
Semi-Annually Sampled Wells	MW-95 (total barium)	MW-67 (total arsenic, barium, & vanadium)

For MW-72, total barium, and for MW-74, total arsenic both have passed the re-testing protocol entered into first quarter of 2019, per the SAP.

### Volatile Detections

Volatile Organic Compound (VOC) detections in regional aquifer wells this quarter are presented in Table 6. There continue 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, and semi-annually monitored wells MW-56 and MW-76;
- Trichloroethene (TCE) was detected in quarterly monitored wells MW-82 and MW-76;
- Tetrachloroethene (PCE) was detected in semi-annually monitored well MW-76;
- Vinyl Chloride was detected in semi-annually monitored well MW-65.

These upgradient well detections are consistent with past data and continuing migration from QCF.

Other volatile detections this quarter in regional well samples include chloromethane, acetone, and carbon disulfide, all of which are commonly found as laboratory contamination at low concentrations. All detections this quarter are qualified 'JT', indicating detections were below the reporting detection limit but greater than the method detection limit (T qualifier), and reported as "estimated" (J qualifier).

### **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 two EPZ monitoring wells (MW-30A, MW-47, and MW-62). MW-101 near the former SSWA was also sampled. Groundwater quality data from Perched Zones wells collected during the second quarter of 2019 are consistent with previous samples.

#### **EW-25**

EW-25 was decommissioned during the second quarter of 2018 (as described in the Cedar Hills Regional Landfill – EPZ Extraction Well Decommissioning Technical Memorandum) as a part of ongoing interim actions per the East Perched Zones Remedial Investigation and Feasibility Study Report (EPZ RI/FS), and therefore is no longer a part of the monitoring network. Six (6) additional replacement monitoring wells have been installed in the EPZ (MW-107 to MW-112) as described in the EPZ Phase I Interim Actions - Infrastructure Upgrades Technical Memorandum – Agency Draft. Sampling of these well began in the second quarter of 2019, and results are included in Appendix B.

#### **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  $\mu\text{mhos/cm}$  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 197.6  $\mu\text{mhos/cm}$ .

#### **Analytical Results**

Exceedances of regulatory standards for the perched zone wells are tabulated and presented in Table 7. All are consistent with past analyses and known impacts.

#### **Trilinear Diagrams and Ion Balance**

Trilinear plots for Perched Zone samples are all within the calcium-magnesium-bicarbonate hydrochemical facie, consistent with past samples (Figures 7 and 8). Ion balance calculations (Table 8) indicate no analytical error ( $> 10\%$ ) in any perched wells.

**Prediction Limits**

As with the regional data, perched zone prediction limits are derived from cumulative data through the end of 2018. Calculated prediction limits for Appendix I parameters along with analytical results are presented in Table 9.

No UPL exceedances occurred for Perched Zone wells in the second quarter of 2019.

**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. These data points are qualified 'JT' in Table 10.

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.

As per the ISGP for CHRLF, turbidity was not measured during the second quarter of 2019 at stations SW-SL3 and SW-N4 as eight (8) quarters of measurements below the benchmark had previously occurred, allowing for measurement of the parameter to be suspended (i.e. Consistent Attainment).

ISGP required monitoring activities for the second quarter of 2019 are listed in Table 11. There were no recorded exceedances this quarter. ISGP Discharge Monitoring Reports (DMRs) are included in Appendix B.

### **1.2.2 CHRLF CSWGP**

Beginning in 2017, a Construction Stormwater General Permit (CSWGP) was issued for CHRLF (permit number WAR305034 with Ecology) for the Area 8 construction activities. A separate Stormwater Pollution Prevention Plan (SWPPP) was created for this CSWGP permit. This permit is still active and will be in effect through the duration of the construction project.

Four (4) discharge locations are monitored weekly for compliance with the CSWGP in accordance with the SWPPP by the contractor. The construction contractor also inspects the required construction site Best Management Practices (BMPs) and the CSWGP monitoring locations daily during construction activities. The four locations monitored are listed as follows:

1. C-1 (NW end of the site, downstream of the NW siltation pond);
2. C-2 (NE end of the site, downstream of the N stormwater pond);
3. C-3 (SE portion of the site, downstream of the S stormwater lagoon and upstream of the bioswale); and,
4. C-4/CHL (SW part of the site, downstream from the SW siltation pond).

There were no CSWGP exceedances during the second quarter of 2019 (see Table 12). Copies of required stormwater reports submitted to Ecology 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 are 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 the second quarter of 2019 are located in Appendix B.

No compliance probe methane detections occurred during the second quarter of 2019.

#### **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 second quarter of 2019 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 second quarter of 2019 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 increases; 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, no methane was detected at levels above the detection limit. 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**

Groundwater monitoring results are compared to the groundwater quality criteria set forth in WAC 173-200 (Table 14). Stormwater monitoring results are compared to the ISGP Benchmark and Effluent Limits Criteria and CSWGP Benchmarks (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 method detection limit (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

$$\text{UPL} = \bar{x} + \kappa s$$

or

Transformed Distribution:

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

where:  $\bar{x}$  = mean of the baseline data

$\bar{y}$  = mean of the transformed data

$\kappa$  = 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 listed 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**

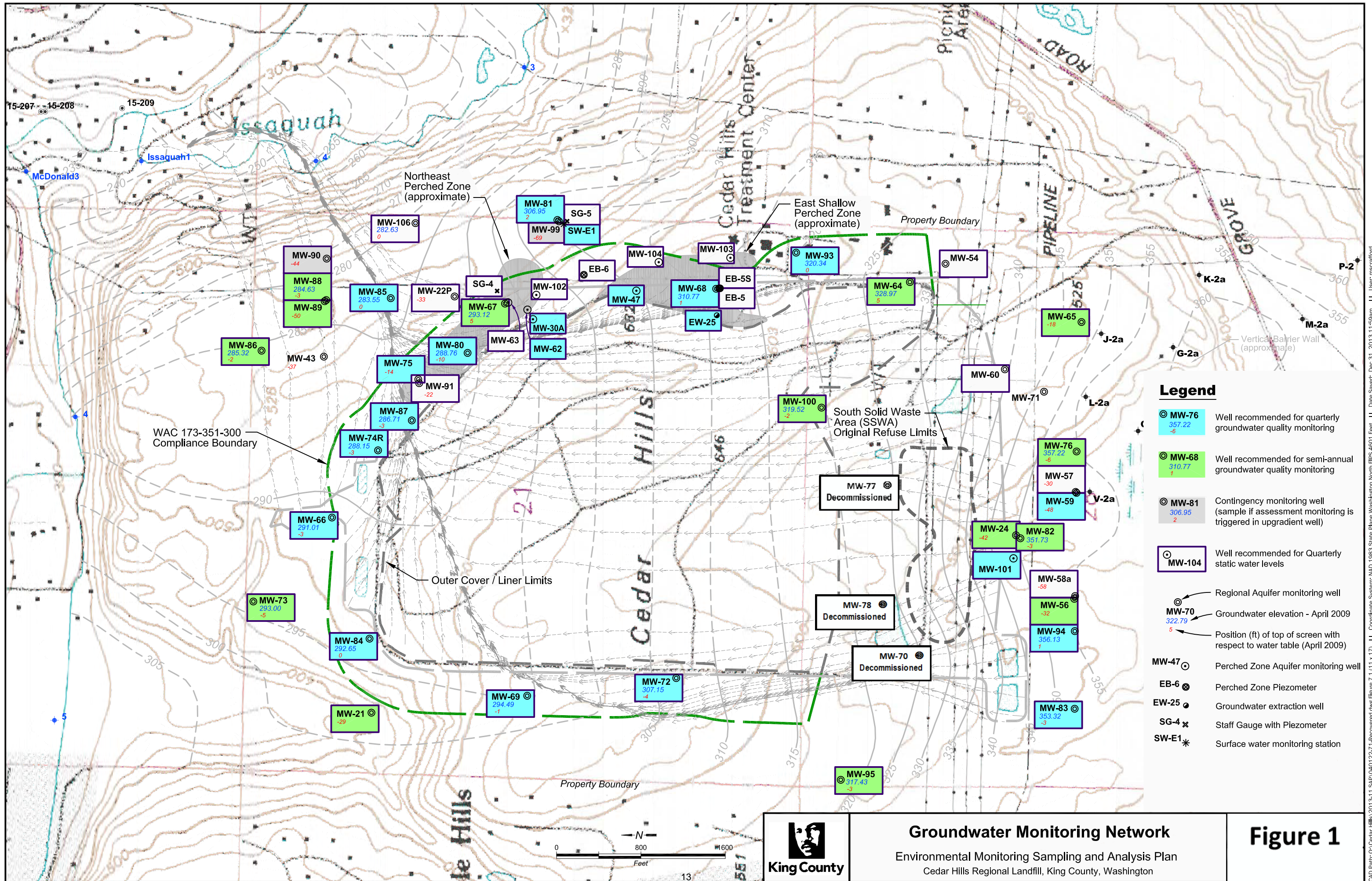
Changes made in accordance with federal regulations for the guidance of analytical testing methodologies covered by SW-846 (Test Methods for Evaluating Solid Waste) were implemented in 2017 by the contract laboratory. One specific effect of these changes was to replace the MDL methodology with the LLOQ 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.





- Legend**
- ⊙ MW-76 357.22 -6 Well recommended for quarterly groundwater quality monitoring
  - ⊙ MW-68 310.77 1 Well recommended for semi-annual groundwater quality monitoring
  - ⊙ MW-81 306.95 2 Contingency monitoring well (sample if assessment monitoring is triggered in upgradient well)
  - ⊙ MW-104 Well recommended for Quarterly static water levels
  - ⊙ Regional Aquifer monitoring well
  - ⊙ MW-70 322.79 5 Groundwater elevation - April 2009
  - ⊙ Position (ft) of top of screen with respect to water table (April 2009)
  - ⊙ MW-47 Perched Zone Aquifer monitoring well
  - EB-6 Perched Zone Piezometer
  - EW-25 Groundwater extraction well
  - ✕ SG-4 Staff Gauge with Piezometer
  - ✱ SW-E1 Surface water monitoring station

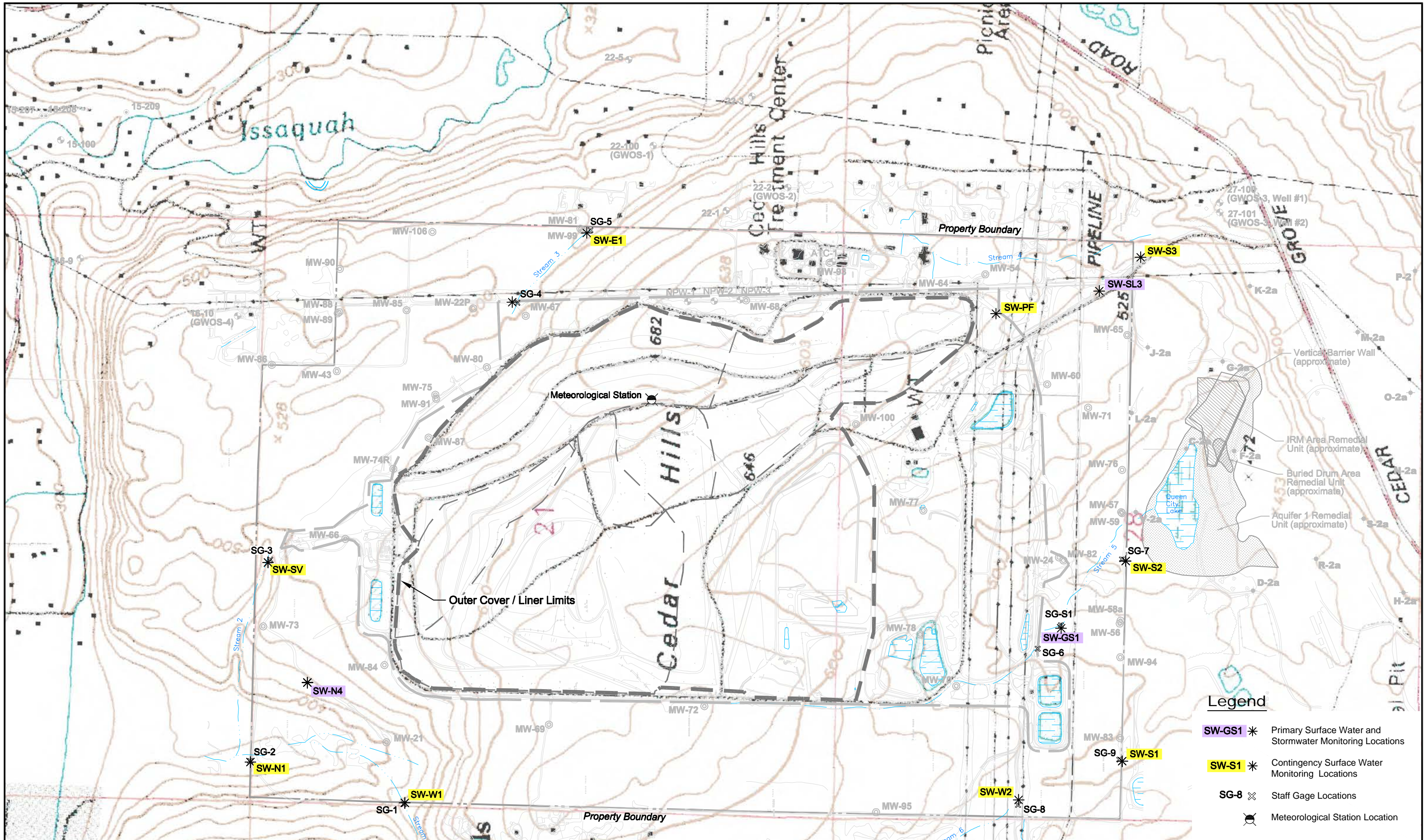


**Groundwater Monitoring Network**  
 Environmental Monitoring Sampling and Analysis Plan  
 Cedar Hills Regional Landfill, King County, Washington

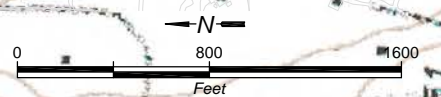
**Figure 1**

CAD Path: Q:\Cedar Hills\2013-11 SAP\040122-71-Recovered.dwg Figure 7.1 (11 x 17) II Coordinate System: NAD 1983 State Plane Washington North FIPS 4601 Feet II Date Saved: Dec 31, 2013 11:59am II User: mscreaford





**Note:**  
Contingency surface water monitoring locations are for potential use in evaluating WAC 173-201A compliance, should an NPDES exceedance occur at the primary surface water and storm water monitoring locations.



**Surface Water and Stormwater Monitoring Network**  
Environmental Monitoring Sampling and Analysis Plan  
Cedar Hills Regional Landfill, King County, Washington

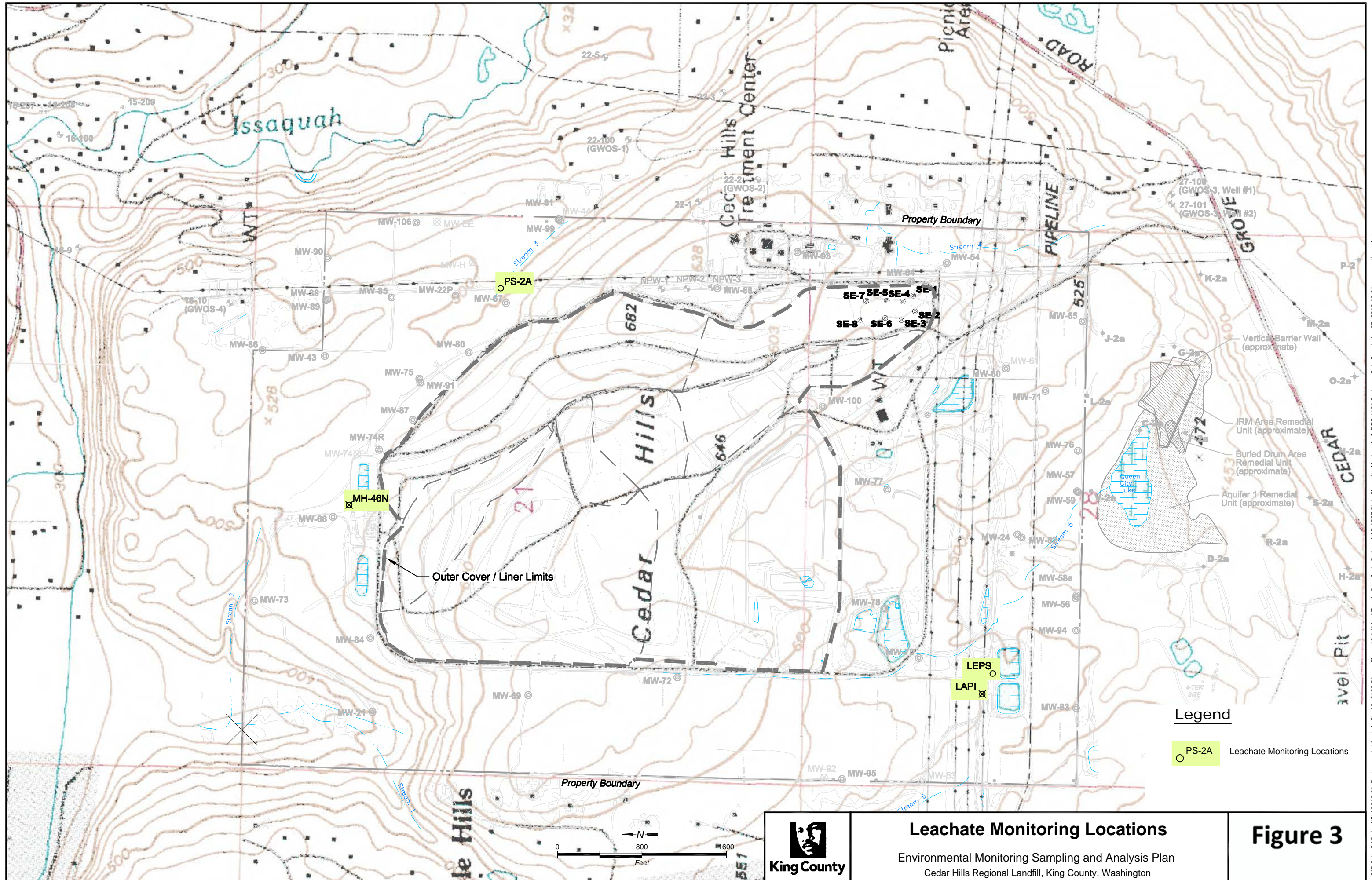
**Figure 2**

- Legend**
- SW-GS1 \* Primary Surface Water and Stormwater Monitoring Locations
  - SW-S1 \* Contingency Surface Water Monitoring Locations
  - SG-8 X Staff Gage Locations
  - Meteorological Station Location

CAD Path: O:\Cedar Hills\2012\01 Environmental Analysis Plan\040122.81\_2012.dwg Figure 8.1 (11 x 17) | Coordinate System: NAD 1983 State Plane Washington North FIPS 4601 Feet | Date Saved: Jan 25, 2012 11:47 am | User: pbaker







**Leachate Monitoring Locations**  
 Environmental Monitoring Sampling and Analysis Plan  
 Cedar Hills Regional Landfill, King County, Washington

**Figure 3**



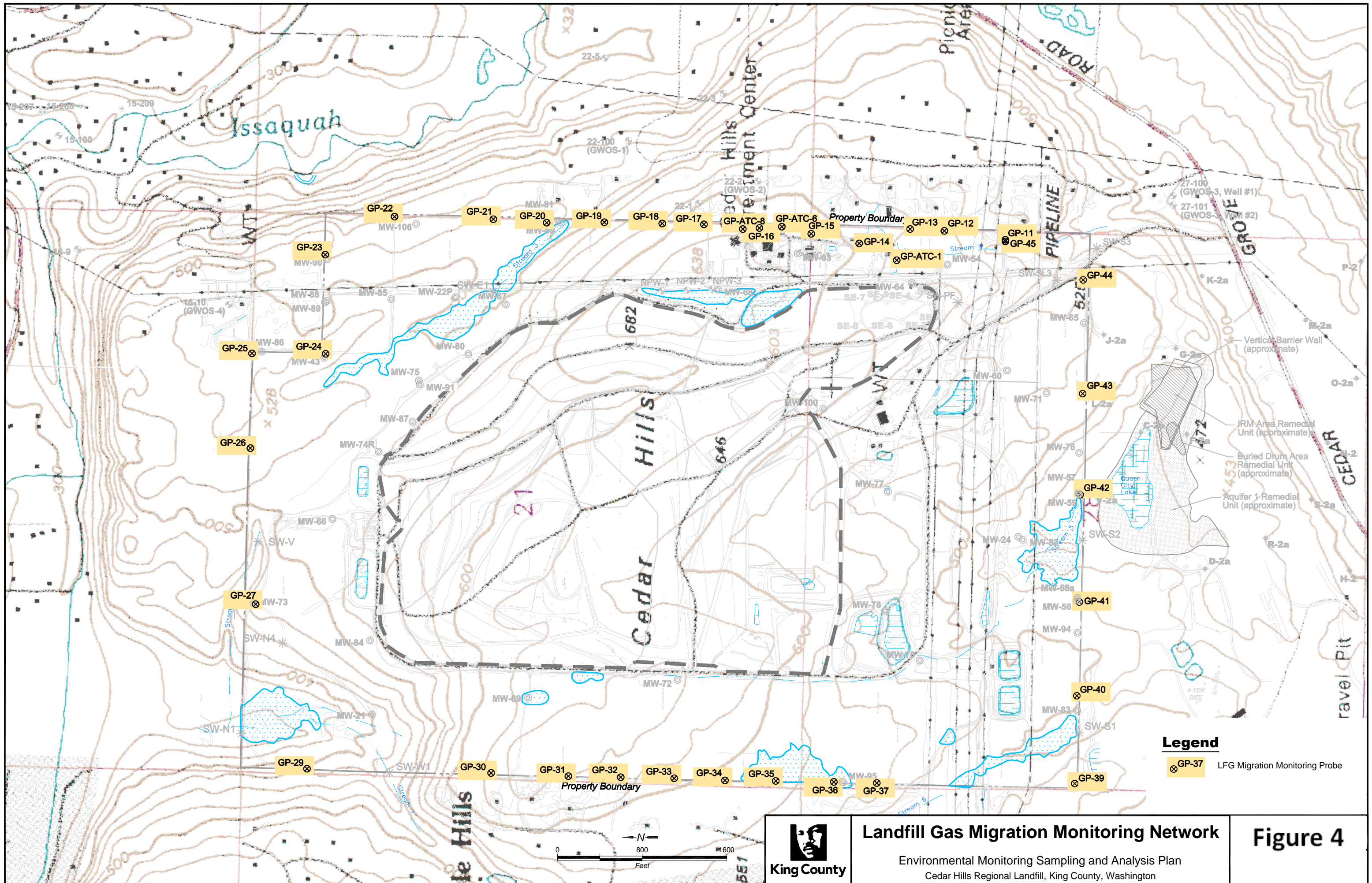




Table 1  
CEDAR HILLS REGIONAL LANDFILL GROUNDWATER MONITORING WELLS

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-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		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
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.
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 LL 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.
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 place of MW-43.

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-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.
<b>East Main Hill Perched Zones</b>									
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	WL only	Quarterly	None	Monitor water levels to evaluate affect of extraction system shut down. Well has limited water yield limiting ability to collect samples.
MW-30A	3	35	6/09/89	EPZ	Assessment		Quarterly	Quarterly	Monitor attenuating VOCs.
MW-47	2	44	5/31/85	EPZ	Assessment		Quarterly	Quarterly	Key EPZ compliance well.
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-102	2	50	1/27/09	EPZ	Assessment	WL only	Quarterly	None	Monitor water levels to evaluate affect of extraction system shut down.
MW-103	2	35	1/28/09	EPZ	Assessment	WL only	Quarterly	None	Monitor water levels to evaluate affect of extraction system shut down.
MW-104	2	32	1/29/09	EPZ	Assessment	WL only	Quarterly	None	Monitor water levels to evaluate affect of extraction system shut down.
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	6/12/18	EPZ	Assessment		Quarterly	Quarterly	EPZ monitoring well.
MW-110	2	19	6/10/18	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.
<b>South Solid Waste Area Perched Zone</b>									
MW-101	2	54	6/2/06	SSWA	Assessment		Quarterly	Quarterly	Key SSWA perched zone compliance well

**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 Farm

**TABLE 2  
CEDAR HILLS REGIONAL LANDFILL  
GROUNDWATER MONITORING ACTIVITIES 2nd QUARTER 2019**

Well ID	Zone	Date	Planned Activity	Sample ID	Comment
Static Water Levels	NA	4/1/19	Groundwater Elevation Measurement	--	North half of landfill.
Static Water Levels	NA	4/1/19	Groundwater Elevation Measurement	--	South half of landfill.
MW-21	Regional	4/1/2019	Groundwater Elevation Measurement	NA	
MW-21	Regional	4/8/2019	Semi-annual Groundwater Sampling	W21-190408-	
MW-22	Regional	4/1/2019	Groundwater Elevation Measurement	NA	
MW-24	Regional	4/1/2019	Groundwater Elevation Measurement	NA	
MW-24	Regional	4/8/2019	Semi-annual Groundwater Sampling	W24-190408-	
MW-25	Perched	4/1/2019	Groundwater Elevation Measurement	NA	
MW-27A	Perched	4/1/2019	Groundwater Elevation Measurement	NA	
MW-28	Perched	4/1/2019	Groundwater Elevation Measurement	NA	
MW-29	Perched	4/1/2019	Groundwater Elevation Measurement	NA	
MW-30A	Perched	4/1/2019	Groundwater Elevation Measurement	NA	
MW-30A	Perched	5/13/2019	Quarterly Groundwater Sampling	W30A190513-	
MW-41D	Perched	4/1/2019	Groundwater Elevation Measurement	NA	
MW-41S	Perched	4/1/2019	Groundwater Elevation Measurement	NA	
MW-43	Regional	4/1/2019	Groundwater Elevation Measurement	NA	
MW-45	Perched	4/1/2019	Groundwater Elevation Measurement	NA	
MW-47	Perched	4/1/2019	Groundwater Elevation Measurement	NA	
MW-47	Perched	5/13/2019	Quarterly Groundwater Sampling	W47-190513-	
MW-48	Perched	4/1/2019	Groundwater Elevation Measurement	NA	
MW-50	Perched	4/1/2019	Groundwater Elevation Measurement	NA	
MW-50	Perched	5/20/2019	Quarterly Groundwater Sampling	W50-190520-	
MW-54	Regional	4/1/2019	Groundwater Elevation Measurement	NA	
MW-55	Perched	4/1/2019	Groundwater Elevation Measurement	NA	
MW-56	Regional	4/1/2019	Groundwater Elevation Measurement	NA	
MW-56	Regional	4/8/2019	Semi-annual Groundwater Sampling	W56-190408-	
MW-57	Perched	4/1/2019	Groundwater Elevation Measurement	NA	
MW-58A	Regional	4/1/2019	Groundwater Elevation Measurement	NA	
MW-59	Regional	4/1/2019	Groundwater Elevation Measurement	NA	
MW-59	Regional	4/10/2019	Quarterly Groundwater Sampling	W59-190410-	
MW-60	Regional	4/1/2019	Groundwater Elevation Measurement	NA	
MW-62	Perched	4/1/2019	Groundwater Elevation Measurement	NA	
MW-62	Perched	5/28/2019	Quarterly Groundwater Sampling	W62-190528-	
MW-63	Perched	4/1/2019	Groundwater Elevation Measurement	NA	
MW-64	Perched	4/1/2019	Groundwater Elevation Measurement	NA	
MW-64	Regional	4/12/2019	Semi-annual Groundwater Sampling	W64-190412-	
MW-65	Regional	4/1/2019	Groundwater Elevation Measurement	NA	
MW-65	Regional	4/12/2019	Semi-annual Groundwater Sampling	W65-190412-	
MW-66	Regional	4/1/2019	Groundwater Elevation Measurement	NA	
MW-66	Regional	4/10/2019	Quarterly Groundwater Sampling	W66-190410-	
MW-67	Regional	4/1/2019	Groundwater Elevation Measurement	NA	
MW-67	Regional	4/12/2019	Semi-annual Groundwater Sampling	W67-190412-	
MW-68	Regional	4/1/2019	Groundwater Elevation Measurement	NA	
MW-68	Regional	5/14/2019	Quarterly Groundwater Sampling	W68-190514-	
MW-69	Regional	4/1/2019	Groundwater Elevation Measurement	NA	
MW-69	Regional	4/15/2019	Quarterly Groundwater Sampling	W69-190415-	
MW-72	Regional	4/1/2019	Groundwater Elevation Measurement	NA	
MW-72	Regional	4/16/2019	Quarterly Groundwater Sampling	W72-190416-	
MW-73	Regional	4/1/2019	Groundwater Elevation Measurement	NA	
MW-73	Regional	4/10/2019	Semi-annual Groundwater Sampling	W73-190410-	
MW-74R	Regional	4/1/2019	Groundwater Elevation Measurement	NA	
MW-74R	Regional	4/18/2019	Quarterly Groundwater Sampling	W74R190418-	
MW-74R	Regional	4/18/2019	QA/QC Sample	W74R190418D	Field Duplicate
MW-75	Regional	4/1/2019	Groundwater Elevation Measurement	NA	

**TABLE 2**  
**CEDAR HILLS REGIONAL LANDFILL**  
**GROUNDWATER MONITORING ACTIVITIES 2nd QUARTER 2019**

Well ID	Zone	Date	Planned Activity	Sample ID	Comment
MW-75	Regional	4/18/2019	Quarterly Groundwater Sampling	W75-190418-	
MW-76	Regional	4/1/2019	Groundwater Elevation Measurement	NA	
MW-76	Regional	4/10/2019	Semi-annual Groundwater Sampling	W76-190410-	
MW-79	Regional	4/1/2019	Groundwater Elevation Measurement	NA	No measurement - Needs to be fixed
MW-80	Regional	4/1/2019	Groundwater Elevation Measurement	NA	
MW-80	Regional	5/14/2019	Quarterly Groundwater Sampling	W80-190514-	
MW-81	Regional	4/1/2019	Groundwater Elevation Measurement	NA	
MW-81	Regional	4/16/2019	Quarterly Groundwater Sampling	W81-190416-	
MW-82	Regional	4/1/2019	Groundwater Elevation Measurement	NA	
MW-82	Regional	4/8/2019	Semi-annual Groundwater Sampling	W82-190408-	
MW-82	Regional	5/22/2019	Semi-annual Groundwater Sampling	W82-190522-	
MW-83	Regional	4/1/2019	Groundwater Elevation Measurement	NA	
MW-83	Regional	4/12/2019	Quarterly Groundwater Sampling	W83-190412-	
MW-84	Regional	4/1/2019	Groundwater Elevation Measurement	NA	
MW-84	Regional	4/10/2019	Quarterly Groundwater Sampling	W84-190410-	
MW-85	Regional	4/1/2019	Groundwater Elevation Measurement	NA	
MW-85	Regional	4/16/2019	Quarterly Groundwater Sampling	W85-190416-	
MW-86	Regional	4/1/2019	Groundwater Elevation Measurement	NA	
MW-86	Regional	4/12/2019	Semi-annual Groundwater Sampling	W86-190412-	
MW-87	Regional	4/1/2019	Groundwater Elevation Measurement	NA	
MW-87	Regional	4/18/2019	Quarterly Groundwater Sampling	W87-190418-	
MW-88	Regional	4/1/2019	Groundwater Elevation Measurement	NA	
MW-88	Regional	4/18/2019	Semi-annual Groundwater Sampling	W88-190418-	
MW-89	Regional	4/1/2019	Groundwater Elevation Measurement	NA	
MW-89	Regional	4/18/2019	Semi-annual Groundwater Sampling	W89-190418-	
MW-90	Regional	4/1/2019	Groundwater Elevation Measurement	NA	
MW-91	Regional	4/1/2019	Groundwater Elevation Measurement	NA	
MW-93	Regional	4/1/2019	Groundwater Elevation Measurement	NA	
MW-93	Regional	4/16/2019	Quarterly Groundwater Sampling	W93-190416-	
MW-94	Regional	4/1/2019	Groundwater Elevation Measurement	NA	
MW-94	Regional	4/10/2019	Quarterly Groundwater Sampling	W94-190410-	
MW-95	Regional	4/1/2019	Groundwater Elevation Measurement	NA	
MW-95	Regional	4/8/2019	Semi-annual Groundwater Sampling	W95-190408-	
MW-98	Regional	4/1/2019	Groundwater Elevation Measurement	NA	
MW-99	Regional	4/1/2019	Groundwater Elevation Measurement	NA	
MW-100	Regional	4/1/2019	Groundwater Elevation Measurement	NA	
MW-100	Regional	4/12/2019	Semi-annual Groundwater Sampling	W100190412-	
MW-101	Perched	4/1/2019	Groundwater Elevation Measurement	NA	
MW-101	Perched	5/28/2019	Quarterly Groundwater Sampling	W101190528-	
MW-102	Perched	4/1/2019	Groundwater Elevation Measurement	NA	
MW-102	Perched	5/15/2019	Quarterly Groundwater Sampling	W102190515-	
MW-103	Perched	4/1/2019	Groundwater Elevation Measurement	NA	
MW-103	Perched	5/17/2019	Quarterly Groundwater Sampling	W103190517-	
MW-104	Perched	4/1/2019	Groundwater Elevation Measurement	NA	
MW-104	Perched	5/17/2019	Quarterly Groundwater Sampling	W104190517-	
MW-105	Regional	4/1/2019	Groundwater Elevation Measurement	NA	
MW-106	Regional	4/1/2019	Groundwater Elevation Measurement	NA	
MW-107	Perched	5/13/2019	Quarterly Groundwater Sampling	W107190513-	
MW-107	Perched	4/1/2019	Groundwater Elevation Measurement	NA	
MW-108	Perched	5/16/2019	Quarterly Groundwater Sampling	W108190516-	
MW-108	Perched	4/1/2019	Groundwater Elevation Measurement	NA	
MW-109	Perched	5/20/2019	Quarterly Groundwater Sampling	W109190520-	
MW-109	Perched	4/1/2019	Groundwater Elevation Measurement	NA	



**TABLE 2  
CEDAR HILLS REGIONAL LANDFILL  
GROUNDWATER MONITORING ACTIVITIES 2nd QUARTER 2019**

<b>Well ID</b>	<b>Zone</b>	<b>Date</b>	<b>Planned Activity</b>	<b>Sample ID</b>	<b>Comment</b>
MW-110	Perched	5/16/2019	Quarterly Groundwater Sampling	W110190516-	
MW-110	Perched	4/1/2019	Groundwater Elevation Measurement	NA	
MW-111	Perched	5/20/2019	Quarterly Groundwater Sampling	W111190520-	
MW-111	Perched	4/1/2019	Groundwater Elevation Measurement	NA	
MW-112	Perched	5/13/2019	Quarterly Groundwater Sampling	W112190513-	
MW-EB5	Perched	4/1/2019	Groundwater Elevation Measurement	NA	
MW-EB5S	Perched	4/1/2019	Groundwater Elevation Measurement	NA	
MW-EB6	Perched	4/1/2019	Groundwater Elevation Measurement	NA	
MW-EB6	Perched	5/14/2019	Quarterly Groundwater Sampling	WB6-190514-	
WS-NPW-1	Regional	4/1/2019	Groundwater Elevation Measurement	NA	
WS-NPW-3	Regional	4/1/2019	Groundwater Elevation Measurement	NA	
Field Blank	NA	5/28/2019	QA/QC Sample	W62-190528F	



**Table 3**  
**CEDAR HILLS REGIONAL LANDFILL**  
**REGIONAL AQUIFER GROUNDWATER QUALITY STANDARD EXCEEDANCES**  
(Data Collected from April 1, 2019 - June 30, 2019)

Parameter	Units	Well ID	Sample Date	Sample ID	Sample Value
<b>Upgradient and Crossgradient Wells</b>					
pH (Field)	pH Units	MW-59	4/10/2019	W59-190410-	6.42
		MW-76	4/10/2019	W76-190410-	6.29
Arsenic, Total	mg/L	MW-21	4/8/2019	W21-190408-	0.000988
		MW-24	4/8/2019	W24-190408-	0.000606
		MW-56	4/8/2019	W56-190408-	0.0000772
		MW-59	4/10/2019	W59-190410-	0.000466
		MW-64	4/12/2019	W64-190412-	0.001122
		MW-65	4/12/2019	W65-190412-	0.001129
		MW-66	4/10/2019	W66-190410-	0.000643
		MW-68	4/15/2019	W68-190415-	0.0208
		MW-68	5/14/2019	W68-190514-	0.0177
		MW-73	4/10/2019	W73-190410-	0.000681
		MW-76	4/10/2019	W76-190410-	0.000193
		MW-81	4/16/2019	W81-190416-	0.000554
		MW-82	4/8/2019	W82-190408-	0.000241
		MW-82	5/22/2019	W82-190522-	0.000223
Iron, Dissolved	mg/L	MW-83	4/12/2019	W83-190412-	0.000306
		MW-84	4/10/2019	W84-190410-	0.00032
		MW-93	4/16/2019	W93-190416-	0.00129
		MW-94	4/10/2019	W94-190410-	0.00012
		MW-21	4/8/2019	W21-190408-	2.03
		MW-24	4/8/2019	W24-190408-	3.08
		MW-59	4/10/2019	W59-190410-	3.86
		MW-65	4/12/2019	W65-190412-	3.29
Manganese, Dissolved	mg/L	MW-68	4/15/2019	W68-190415-	0.551
		MW-68	5/14/2019	W68-190514-	0.564
		MW-21	4/8/2019	W21-190408-	0.105
		MW-24	4/8/2019	W24-190408-	0.0995
		MW-56	4/8/2019	W56-190408-	0.169
		MW-59	4/10/2019	W59-190410-	0.113
		MW-64	4/12/2019	W64-190412-	0.0968
		MW-65	4/12/2019	W65-190412-	0.163
Trichloroethene	ug/l	MW-68	4/15/2019	W68-190415-	0.298
		MW-68	5/14/2019	W68-190514-	0.303
		MW-83	4/12/2019	W83-190412-	0.101
		MW-93	4/16/2019	W93-190416-	0.208
		MW-76	4/10/2019	W76-190410-	6.07
		MW-82	5/22/2019	W82-190522-	4.28
Vinyl Chloride	ug/l	MW-65	4/12/2019	W65-190412-	0.0261

**Table 3**  
**CEDAR HILLS REGIONAL LANDFILL**  
**REGIONAL AQUIFER GROUNDWATER QUALITY STANDARD EXCEEDANCES**  
(Data Collected from April 1, 2019 - June 30, 2019)

Parameter	Units	Well ID	Sample Date	Sample ID	Sample Value
<b>Wells Downgradient to Waste Cells and North end Facilities</b>					
Arsenic, Total	mg/L	MW-67	4/12/2019	W67-190412-	0.0045
		MW-69	4/15/2019	W69-190415-	0.00269
		MW-72	4/16/2019	W72-190416-	0.0000966
		MW-74	4/18/2019	W74R190418-	0.000754
		MW-75	4/18/2019	W75-190418-	0.000451
		MW-85	4/16/2019	W85-190416-	0.000704
		MW-86	4/12/2019	W86-190412-	0.00377
		MW-87	4/18/2019	W87-190418-	0.000907
		MW-88	4/18/2019	W88-190418-	0.000963
		MW-89	4/18/2019	W89-190418-	0.00376
		MW-100	4/12/2019	W100190412-	0.00447
Iron, Dissolved	mg/L	MW-69	4/15/2019	W69-190415-	0.961
		MW-72	4/16/2019	W72-190416-	2.66
		MW-75	4/18/2019	W75-190418-	2.23
		MW-86	4/12/2019	W86-190412-	0.694
		MW-87	4/18/2019	W87-190418-	4.23
		MW-89	4/18/2019	W89-190418-	0.958
		MW-100	4/12/2019	W100190412-	1.39
Manganese, Dissolved	mg/L	MW-67	4/12/2019	W67-190412-	0.212
		MW-69	4/15/2019	W69-190415-	0.264
		MW-72	4/16/2019	W72-190416-	0.37
		MW-75	4/18/2019	W75-190418-	0.2
		MW-87	4/18/2019	W87-190418-	0.528
		MW-89	4/18/2019	W89-190418-	0.259
		MW-100	4/12/2019	W100190412-	0.152

See Data Qualifier List for Qualifier Information.

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 Quarterly and Semi-annual Regional Aquifer**  
**Groundwater Monitoring**

Data Collected from April, 2019 to June 30, 2019

Site ID	Upgradient and Crossgradient																			
	MW-21 4/8/2019			MW-24 4/8/2019			MW-56 4/8/2019			MW-59 4/10/2019			MW-64 4/12/2019			MW-65 4/12/2019				
Cations	MW	n	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)	mg/L	meq/L	%(meq)
pH			7.4			6.9			6.8			6.4			6.9			6.9		
Conductance			143			184			214			196			229			145		
TDSobs			88			112			136			114			127			89		
Calcium	40.1	2	12.1	0.603792	39.7	14.4	0.718563	37.9	20.5	1.022954	45.9	16.2	0.808383	38.6	18.6	0.928144	37.2	11.4	0.568862	37.2
Magnesium	24.3	2	6.7	0.55215	36.3	9.5	0.781732	41.2	10.9	0.896935	40.2	10.2	0.839333	40.1	14.2	1.168484	46.9	7.1	0.580128	37.9
Potassium	39.1	1	1.1	0.02839	1.9	1.0	0.025832	1.4	1.2	0.031459	1.4	1.2	0.029413	1.4	1.7	0.044247	1.8	0.9	0.023709	1.5
Sodium	23.0	1	6.0	0.260551	17.1	5.9	0.255331	13.5	6.2	0.267945	12.0	6.3	0.27273	13.0	7.9	0.345371	13.9	5.4	0.234017	15.3
Iron	55.8	2	2.03	0.072699	4.8	3.08	0.110301	5.8	0.09	0.003051	0.1	3.86	0.138235	6.6	0.05	0.001869	0.1	3.29	0.117822	7.7
Manganese	54.9	2	0.11	0.003822	0.3	0.10	0.003622	0.2	0.17	0.006152	0.3	0.11	0.004114	0.2	0.10	0.003524	0.1	0.16	0.005934	0.4
Ammonia-N	14.0	1	0.02	0.001257	0.1	0.03	0.002242	0.1	0.00	0.000143	0.0	0.00	0.00035	0.0	0.02	0.001699	0.1	0.00	0.000314	0.0
<b>Total Cations (meq/L)</b>				<b>1.5</b>			<b>1.9</b>			<b>2.2</b>			<b>2.1</b>			<b>2.5</b>			<b>1.5</b>	
<b>Anions</b>																				
Alkalinity, Total			59			65			73			67			100			52		
Carbonate	60.0	2	0.079395	0.002647	0.2	0.027656	0.000922	0.1	0.029067	0.000969	0.0	0.010549	0.000352	0.0	0.052336	0.001745	0.1	0.0268	0.000893	0.1
Bicarbonate	61.0	1	71.94	1.179176	85.0	79.24	1.298882	75.8	89.24	1.46281	68.4	81.35	1.333447	71.3	121.89	1.997954	86.1	63.87	1.046949	77.3
Chloride	35.5	1	2.4	0.067695	4.9	5.2	0.147519	8.6	17.1	0.482329	22.5	8.3	0.234113	12.5	2.7	0.075593	3.3	3.8	0.105774	7.8
Nitrate-N	14.0	1	0.01	0.000714	0.1	0.01	0.000714	0.0	0.62	0.044549	2.1	0.02	0.001428	0.1	0.01	0.000714	0.0	0.01	0.000714	0.1
Sulfate	96.1	2	6.6	0.136377	9.8	12.8	0.266507	15.5	7.2	0.149494	7.0	14.5	0.301902	16.1	11.8	0.245686	10.6	9.6	0.200296	14.8
<b>Total Anions (meq/L)</b>				<b>1.4</b>			<b>1.7</b>			<b>2.1</b>			<b>1.9</b>			<b>2.3</b>			<b>1.4</b>	
<b>Total Ions (meq/L)</b>				<b>2.9</b>			<b>3.6</b>			<b>4.4</b>			<b>4.0</b>			<b>4.8</b>			<b>2.9</b>	
<b>Cation/Anion Ratio</b>				<b>1.10</b>			<b>1.11</b>			<b>1.04</b>			<b>1.12</b>			<b>1.07</b>			<b>1.13</b>	
<b>Percent Difference</b>				<b>4.7</b>			<b>5.1</b>			<b>2.0</b>			<b>5.6</b>			<b>3.6</b>			<b>6.1</b>	
<b>Trilinear Diagram Data</b>																				
sum (Ca, Mg, Na+K)			1.44			1.78			2.22			1.95			2.49			1.41		
Calcium				41.79		40.34			46.09			41.46			37.33			40.44		
Magnesium				38.21		43.88			40.42			43.05			47.00			41.24		
Sodium + Potassium				20.00		15.78			13.49			15.50			15.67			18.32		
												100.0								
sum (SO <sub>4</sub> , Cl, HCO <sub>3</sub> +CO <sub>3</sub> )			1.39			1.71			2.10			1.87			2.32			1.35		
Sulfate				9.840		15.550			7.134			16.146			10.585			14.794		
Chloride				4.885		8.608			23.016			12.521			3.257			7.812		
Bicarbonate + Carbonate				85.275		75.842			69.850			71.333			86.158			77.394		
												100.0								

**Table 4**  
**Ion Balance Calculations**  
**Cedar Hills Regional Landfill Quarterly and Semi-annual Regional Aquifer**  
**Groundwater Monitoring**

Data Collected from April, 2019 to June 30, 2019

Site ID	Upgradient and Crossgradient																			
	MW-66 4/10/2019			MW-73 4/10/2019			MW-76 4/10/2019			MW-81 4/16/2019			MW-82 4/8/2019			MW-83 4/12/2019				
Cations	MW	n	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)	mg/L	meq/L	%(meq)
pH			6.9			7.0			6.3			7.1			6.8			6.6		
Conductance			214			137			239			163			309			536		
TDSobs			129			96			146			108			186			328		
Calcium	40.1	2	16.5	0.823353	36.0	12.2	0.608782	42.8	21.4	1.067864	44.8	13.9	0.693613	42.5	28.5	1.422156	43.2	55.7	2.779441	50.7
Magnesium	24.3	2	13.4	1.102654	48.2	6.5	0.533224	37.5	10.0	0.822876	34.5	7.7	0.6295	38.6	17.6	1.448262	44.0	25.6	2.106562	38.4
Potassium	39.1	1	1.2	0.029925	1.3	0.8	0.020947	1.5	1.5	0.037342	1.6	0.9	0.02197	1.3	1.9	0.049107	1.5	3.1	0.079799	1.5
Sodium	23.0	1	7.6	0.332322	14.5	6.0	0.259681	18.2	10.5	0.456725	19.1	6.6	0.285779	17.5	8.5	0.370165	11.3	11.8	0.513272	9.4
Iron	55.8	2	0.01	0.000358	0.0	0.01	0.000358	0.0	0.01	0.000358	0.0	0.01	0.000358	0.0	0.01	0.000358	0.0	0.01	0.000358	0.0
Manganese	54.9	2	0.00	3.64E-06	0.0	0.00	3.64E-06	0.0	0.00	3.64E-06	0.0	0.00	3.64E-06	0.0	0.00	3.64E-06	0.0	0.10	0.003677	0.1
Ammonia-N	14.0	1	0.00	0.000143	0.0	0.00	0.000143	0.0	0.00	0.000143	0.0	0.00	0.000143	0.0	0.00	0.000143	0.0	0.00	0.000164	0.0
<b>Total Cations (meq/L)</b>				<b>2.3</b>			<b>1.4</b>			<b>2.4</b>	<b>100.0</b>		<b>1.6</b>			<b>3.3</b>			<b>5.5</b>	
<b>Anions</b>																				
Alkalinity, Total			86			52			68			55			120			174		
Carbonate	60.0	2	0.043085	0.001436	0.1	0.028441	0.000948	0.1	0.007949	0.000265	0.0	0.042481	0.001416	0.1	0.042472	0.001416	0.0	0.037982	0.001266	0.0
Bicarbonate	61.0	1	105.08	1.722304	79.9	63.26	1.036896	77.0	82.70	1.355531	60.2	66.89	1.096419	70.3	146.31	2.398223	76.8	212.20	3.478209	65.6
Chloride	35.5	1	4.5	0.125518	5.8	2.3	0.064593	4.8	16.2	0.456943	20.3	5.3	0.148083	9.5	10.8	0.304629	9.8	54.8	1.545708	29.2
Nitrate-N	14.0	1	0.43	0.030985	1.4	1.06	0.075676	5.6	0.96	0.068609	3.0	1.50	0.107089	6.9	1.12	0.07996	2.6	1.04	0.074249	1.4
Sulfate	96.1	2	13.2	0.274835	12.8	8.1	0.169065	12.5	17.7	0.368529	16.4	10.0	0.207376	13.3	16.2	0.337298	10.8	9.7	0.202795	3.8
<b>Total Anions (meq/L)</b>				<b>2.2</b>			<b>1.3</b>			<b>2.2</b>	<b>100.0</b>		<b>1.6</b>			<b>3.1</b>			<b>5.3</b>	
<b>Total Ions (meq/L)</b>				<b>4.4</b>			<b>2.8</b>			<b>4.6</b>			<b>3.2</b>			<b>6.4</b>			<b>10.8</b>	
<b>Cation/Anion Ratio</b>				<b>1.06</b>			<b>1.06</b>			<b>1.06</b>			<b>1.05</b>			<b>1.05</b>			<b>1.03</b>	
<b>Percent Difference</b>				<b>3.0</b>			<b>2.7</b>			<b>2.9</b>			<b>2.2</b>			<b>2.6</b>			<b>1.7</b>	
<b>Trilinear Diagram Data</b>																				
sum (Ca, Mg, Na+K)				2.29			1.42			2.38			1.63			3.29			5.48	
Calcium					35.98			42.79			44.78			42.53			43.23			50.73
Magnesium					48.19			37.48			34.50			38.60			44.02			38.45
Sodium + Potassium					15.83			19.73			20.72			18.87			12.75			10.82
											100.0									100.0
sum (SO <sub>4</sub> , Cl, HCO <sub>3</sub> +CO <sub>3</sub> )				2.12			1.27			2.18			1.45			3.04			5.23	
Sulfate					12.939			13.297			16.895			14.269			11.090			3.879
Chloride					5.909			5.080			20.949			10.190			10.016			29.566
Bicarbonate + Carbonate					81.152			81.623			62.156			75.541			78.895			66.555
											100.0									100.0

**Table 4**  
**Ion Balance Calculations**  
**Cedar Hills Regional Landfill Quarterly and Semi-annual Regional Aquifer**  
**Groundwater Monitoring**

Data Collected from April, 2019 to June 30, 2019

Site ID	Upgradient and Crossgradient													
	MW-84 4/10/2019			MW-93 4/16/2019			MW-94 4/10/2019			MW-95 4/8/2019				
Cations	MW	n	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)
pH			6.9			7.1			6.6			7.5		
Conductance			200			313			329			227		
TDSobs			120			200			207			135		
Calcium	40.1	2	15.7	0.783433	37.0	31.5	1.571856	46.7	32.8	1.636727	49.6	21.7	1.08283433	45.3
Magnesium	24.3	2	12.0	0.987451	46.6	16.3	1.341288	39.8	15.1	1.242543	37.7	12.0	0.98745114	41.3
Potassium	39.1	1	1.2	0.03018	1.4	1.6	0.039644	1.2	2.4	0.062151	1.9	1.3	0.03248223	1.4
Sodium	23.0	1	7.3	0.317968	15.0	9.3	0.404528	12.0	8.2	0.357115	10.8	6.5	0.28099455	11.7
Iron	55.8	2	0.01	0.000358	0.0	0.01	0.000358	0.0	0.01	0.000358	0.0	0.01	0.00035812	0.0
Manganese	54.9	2	0.00	2.88E-05	0.0	0.21	0.007572	0.2	0.00	4.51E-06	0.0	0.17	0.00600677	0.3
Ammonia-N	14.0	1	0.00	0.000143	0.0	0.06	0.004219	0.1	0.00	0.000143	0.0	0.02	0.00169915	0.1
<b>Total Cations (meq/L)</b>				<b>2.1</b>			<b>3.4</b>			<b>3.3</b>			<b>2.4</b>	
<b>Anions</b>														
Alkalinity, Total			77			123			106			89		
Carbonate	60.0	2	0.036013	0.0012	0.1	0.090897	0.00303	0.1	0.023138	0.000771	0.0	0.14992694	0.00499763	0.2
Bicarbonate	61.0	1	94.11	1.542567	77.5	149.88	2.4566	75.3	129.27	2.118909	67.8	107.91	1.76873568	77.8
Chloride	35.5	1	4.0	0.113107	5.7	2.7	0.074747	2.3	27.2	0.767213	24.5	5.8	0.16472513	7.2
Nitrate-N	14.0	1	0.14	0.010209	0.5	0.01	0.000714	0.0	0.47	0.033769	1.1	0.01	0.00071393	0.0
Sulfate	96.1	2	15.5	0.322723	16.2	35.0	0.728729	22.3	9.9	0.206751	6.6	16.0	0.33313345	14.7
<b>Total Anions (meq/L)</b>				<b>2.0</b>			<b>3.3</b>			<b>3.1</b>			<b>2.3</b>	
<b>Total Ions (meq/L)</b>				<b>4.1</b>			<b>6.6</b>			<b>6.4</b>			<b>4.7</b>	
<b>Cation/Anion Ratio</b>				<b>1.07</b>			<b>1.03</b>			<b>1.05</b>			<b>1.05</b>	
<b>Percent Difference</b>				<b>3.2</b>			<b>1.6</b>			<b>2.7</b>			<b>2.6</b>	
<b>Trilinear Diagram Data</b>														
sum (Ca, Mg, Na+K)				2.12			3.36			3.30			2.38	
Calcium					36.97			46.82			49.62			45.43
Magnesium					46.60			39.95			37.67			41.42
Sodium + Potassium					16.43			13.23			12.71			13.15
					100.0			100.0						
sum (SO <sub>4</sub> , Cl, HCO <sub>3</sub> +CO <sub>3</sub> )				1.98			3.26			3.09			2.27	
Sulfate					16.302			22.332			6.683			14.665
Chloride					5.714			2.291			24.800			7.252
Bicarbonate + Carbonate					77.984			75.377			68.517			78.083

**Table 4**  
**Ion Balance Calculations**  
**Cedar Hills Regional Landfill Quarterly and Semi-annual Regional Aquifer**  
**Groundwater Monitoring**

Data Collected from April, 2019 to June 30, 2019

Site ID	Downgradient to Waste Cells and North End Facilities																			
	MW-68 4/15/2019			MW-67 4/12/2019			MW-69 4/15/2019			MW-72 4/16/2019			MW-74 4/18/2019			MW-75 4/18/2019				
Cations	MW	n	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)	mg/L	meq/L	%(meq)
pH			6.9			7.0			7.5			7.1			7.0			6.8		
Conductance			283			379			327			364			551			377		
TDSobs			165			220			189			214			311			235		
Calcium	40.1	2	26.6	1.327345	44.5	36.0	1.796407	43.9	33.9	1.691617	48.8	33.5	1.671657	43.2	47.4	2.365269	40.0	31.0	1.546906	38.9
Magnesium	24.3	2	14.6	1.201399	40.3	21.9	1.802098	44.1	15.9	1.308373	37.7	20.3	1.670438	43.2	35.6	2.929438	49.6	22.9	1.884386	47.4
Potassium	39.1	1	1.7	0.042457	1.4	1.8	0.045526	1.1	1.8	0.045526	1.3	2.0	0.050642	1.3	2.2	0.055501	0.9	1.9	0.049619	1.2
Sodium	23.0	1	8.7	0.377994	12.7	9.9	0.429756	10.5	8.7	0.377124	10.9	8.4	0.36712	9.5	12.8	0.556769	9.4	9.4	0.407138	10.2
Iron	55.8	2	0.55	0.019732	0.7	0.20	0.007055	0.2	0.96	0.034415	1.0	2.66	0.09526	2.5	0.01	0.000358	0.0	2.23	0.079861	2.0
Manganese	54.9	2	0.30	0.010849	0.4	0.21	0.007718	0.2	0.26	0.009611	0.3	0.37	0.01347	0.3	0.00	5.28E-06	0.0	0.20	0.007281	0.2
Ammonia-N	14.0	1	0.02	0.001299	0.0	0.01	0.000514	0.0	0.02	0.001192	0.0	0.02	0.001228	0.0	0.00	0.000143	0.0	0.01	0.000628	0.0
<b>Total Cations (meq/L)</b>				<b>3.0</b>		<b>4.1</b>		<b>3.5</b>		<b>3.9</b>		<b>5.9</b>		<b>4.0</b>						
<b>Anions</b>																				
Alkalinity, Total			125			163			137			130			219			110		
Carbonate	60.0	2	0.059669	0.001989	0.1	0.093531	0.003118	0.1	0.242448	0.008082	0.2	0.093886	0.00313	0.1	0.13158	0.004386	0.1	0.038047	0.001268	0.0
Bicarbonate	61.0	1	152.38	2.497634	86.2	198.67	3.256391	80.6	166.65	2.731506	82.1	158.41	2.596479	71.3	266.91	4.374954	75.4	134.12	2.1984	58.7
Chloride	35.5	1	2.9	0.081234	2.8	5.1	0.142442	3.5	3.7	0.104646	3.1	6.6	0.185598	5.1	25.0	0.705159	12.2	10.6	0.298987	8.0
Nitrate-N	14.0	1	0.01	0.000714	0.0	0.09	0.006211	0.2	0.01	0.000714	0.0	0.01	0.000714	0.0	0.27	0.019347	0.3	0.02	0.001071	0.0
Sulfate	96.1	2	15.1	0.314395	10.9	30.3	0.630871	15.6	23.1	0.480961	14.5	41.1	0.855737	23.5	33.6	0.69958	12.1	59.7	1.243004	33.2
<b>Total Anions (meq/L)</b>				<b>2.9</b>		<b>4.0</b>		<b>3.3</b>		<b>3.6</b>		<b>5.8</b>		<b>4.7</b>						
<b>Total Ions (meq/L)</b>				<b>5.9</b>		<b>8.1</b>		<b>6.8</b>		<b>7.5</b>		<b>11.7</b>		<b>8.7</b>						
<b>Cation/Anion Ratio</b>				<b>1.03</b>		<b>1.01</b>		<b>1.04</b>		<b>1.06</b>		<b>1.02</b>		<b>1.06</b>						
<b>Percent Difference</b>				<b>1.4</b>		<b>0.6</b>		<b>2.1</b>		<b>3.0</b>		<b>0.9</b>		<b>3.0</b>						
<b>Trilinear Diagram Data</b>																				
sum (Ca, Mg, Na+K)				2.95		4.07		3.42		3.76		5.91		3.89						
Calcium					45.01		44.10		49.42		44.46		40.04		39.79					
Magnesium					40.74		44.24		38.23		44.43		49.59		48.47					
Sodium + Potassium					14.26		11.67		12.35		11.11		10.37		11.75					
sum (SO <sub>4</sub> , Cl, HCO <sub>3</sub> +CO <sub>3</sub> )				2.90		4.03		3.33		3.64		5.78		3.74						
Sulfate					10.859		15.643		14.464		23.503		12.095		33.221					
Chloride					2.806		3.532		3.147		5.098		12.191		7.991					
Bicarbonate + Carbonate					86.335		80.825		82.389		71.399		75.714		58.789					



**Table 4**  
**Ion Balance Calculations**  
**Cedar Hills Regional Landfill Quarterly and Semi-annual Regional Aquifer**  
**Groundwater Monitoring**

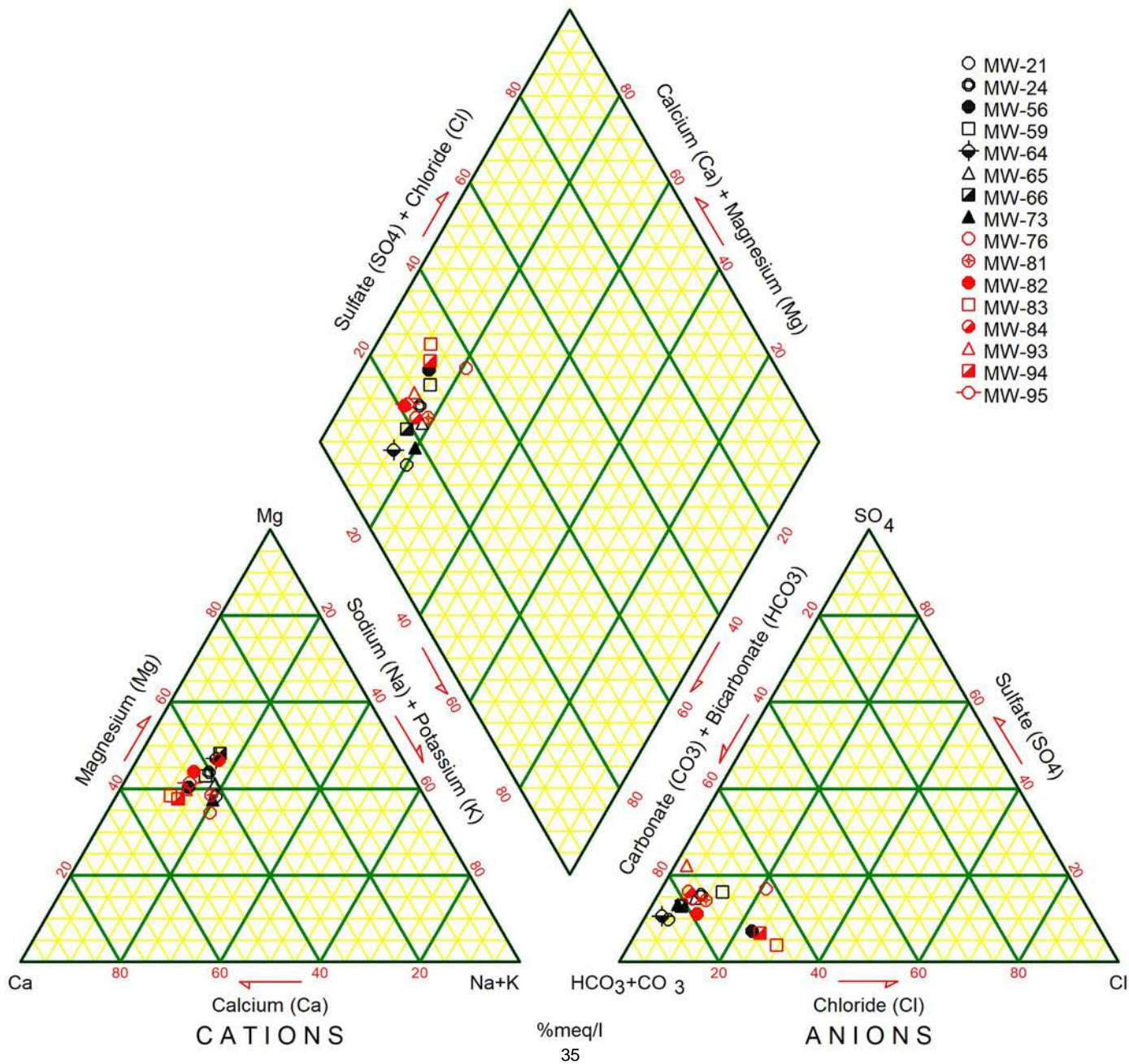
Data Collected from April, 2019 to June 30, 2019

Site ID		Downgradient to Waste Cells and North End Facilities																									
		MW-80 5/14/2019			MW-85 4/16/2019			MW-86 4/12/2019			MW-87 4/18/2019			MW-88 4/18/2019			MW-89 4/18/2019			MW-100 4/12/2019							
Cations	MW	n	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)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	
pH			7.0			6.7			6.8			6.8			6.5			7.0			6.8						
Conductance			316			349			196			540			127			233			304						
TDSobs			195			213			118			374			88			146			168						
Calcium	40.1	2	30.8	1.536926	45.8	33.2	1.656687	43.7	15.7	0.783433	37.5	46.1	2.300399	41.3	9.7	0.482036	35.9	17.1	0.853293	35.7	27.9	1.392216	42.6				
Magnesium	24.3	2	16.3	1.341288	40.0	20.4	1.678667	44.3	11.3	0.92985	44.5	31.2	2.567373	46.1	7.1	0.586711	43.6	12.3	1.012137	42.4	16.6	1.365974	41.8				
Potassium	39.1	1	1.7	0.043224	1.3	1.7	0.042713	1.1	1.3	0.033761	1.6	2.4	0.060872	1.1	0.9	0.022149	1.6	1.6	0.041434	1.7	1.8	0.045782	1.4				
Sodium	23.0	1	7.9	0.344936	10.3	9.5	0.414967	10.9	7.3	0.315793	15.1	10.8	0.469774	8.4	5.8	0.253156	18.8	10.0	0.434976	18.2	9.3	0.406268	12.4				
Iron	55.8	2	2.18	0.07807	2.3	0.01	0.000358	0.0	0.69	0.024854	1.2	4.23	0.151485	2.7	0.01	0.000358	0.0	0.96	0.034308	1.4	1.39	0.049779	1.5				
Manganese	54.9	2	0.33	0.012159	0.4	0.00	3.64E-06	0.0	0.02	0.000706	0.0	0.53	0.019222	0.3	0.00	6.37E-06	0.0	0.26	0.009429	0.4	0.15	0.005534	0.2				
Ammonia-N	14.0	1	0.01	0.0008	0.0	0.00	0.000143	0.0	0.00	0.000143	0.0	0.02	0.001264	0.0	0.00	0.000143	0.0	0.02	0.001285	0.1	0.01	0.000735	0.0				
<b>Total Cations (meq/L)</b>				<b>3.4</b>	<b>100.0</b>		<b>3.8</b>			<b>2.1</b>		<b>5.6</b>			<b>1.3</b>		<b>2.4</b>			<b>3.3</b>							
<b>Anions</b>																											
Alkalinity, Total			114			134			69			107			52			79			131						
Carbonate	60.0	2	0.063926	0.002131	0.1	0.039452	0.001315	0.0	0.028648	0.000955	0.1	0.040578	0.001353	0.0	0.009811	0.000327	0.0	0.049951	0.001665	0.1	0.048549	0.001618	0.1				
Bicarbonate	61.0	1	138.95	2.277526	72.5	163.40	2.678281	72.3	84.00	1.376837	72.9	130.46	2.138325	40.1	62.93	1.031517	81.6	96.77	1.586096	69.6	159.72	2.617987	84.6				
Chloride	35.5	1	4.5	0.127211	4.0	11.1	0.313091	8.5	4.7	0.131442	7.0	13.3	0.375145	7.0	1.8	0.051054	4.0	12.3	0.346938	15.2	3.6	0.102389	3.3				
Nitrate-N	14.0	1	0.01	0.000714	0.0	0.11	0.007496	0.2	0.02	0.001214	0.1	0.01	0.000714	0.0	0.66	0.046834	3.7	0.01	0.000714	0.0	0.01	0.000714	0.0				
Sulfate	96.1	2	35.3	0.734976	23.4	33.7	0.701662	19.0	18.2	0.378939	20.1	135.0	2.810814	52.8	6.4	0.133878	10.6	16.5	0.343544	15.1	17.8	0.370611	12.0				
<b>Total Anions (meq/L)</b>				<b>3.1</b>	<b>100.0</b>		<b>3.7</b>			<b>1.9</b>		<b>5.3</b>			<b>1.3</b>		<b>2.3</b>			<b>3.1</b>							
<b>Total Ions (meq/L)</b>				<b>6.5</b>			<b>7.5</b>			<b>4.0</b>		<b>10.9</b>			<b>2.6</b>		<b>4.7</b>			<b>6.4</b>							
<b>Cation/Anion Ratio</b>				<b>1.07</b>			<b>1.02</b>			<b>1.11</b>		<b>1.05</b>			<b>1.06</b>		<b>1.05</b>			<b>1.06</b>							
<b>Percent Difference</b>				<b>3.3</b>			<b>1.2</b>			<b>5.0</b>		<b>2.2</b>			<b>3.1</b>		<b>2.3</b>			<b>2.7</b>							
<b>Trilinear Diagram Data</b>																											
sum (Ca, Mg, Na+K)				3.27			3.79			2.06			5.40			1.34			2.34					3.21			
Calcium					47.05		43.68				37.98		42.61			35.86			36.44				43.37				
Magnesium					41.06		44.26				45.08		47.56			43.65			43.22				42.55				
Sodium + Potassium					11.88		12.07				16.95		9.83			20.48			20.34				14.08				
					100.0																						
sum (SO <sub>4</sub> , Cl, HCO <sub>3</sub> +CO <sub>3</sub> )				3.14			3.69			1.89			5.33			1.22			2.28				3.09				
Sulfate					23.393		18.993			20.069		52.779			11.003			15.079			11.984						
Chloride					4.049		8.475			6.961		7.044			4.196			15.228			3.311						
Bicarbonate + Carbonate					72.558		72.532			72.970		40.177			84.802			69.692			84.705						
					100.0																						



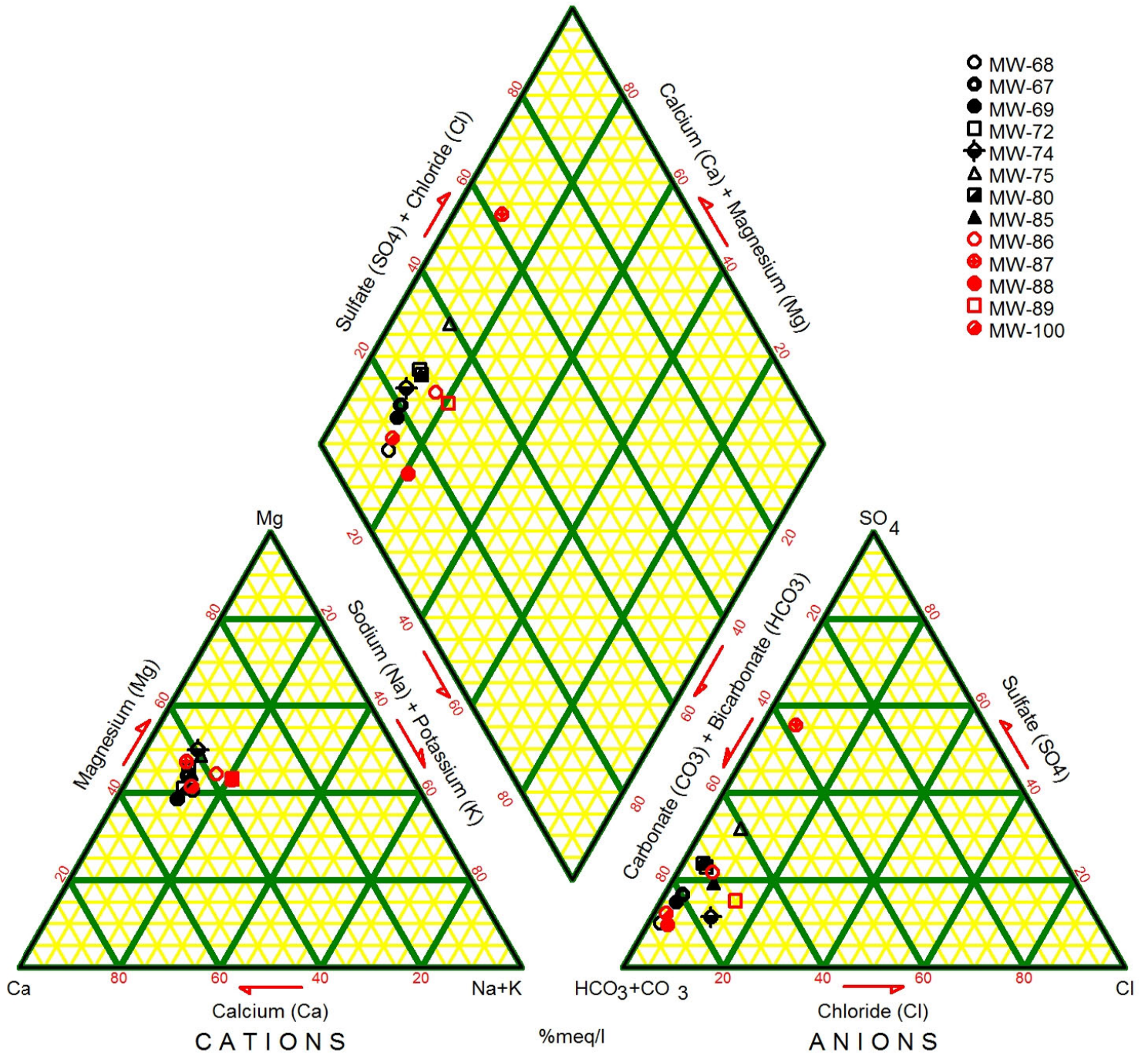
# Cedar Hills Regional Landfill

Figure 5. Trilinear Diagram Up & Crossgradient Regional Wells



# Cedar Hills Regional Landfill

Figure 6. Trilinear Diagram Downgradient Regional Wells



**TABLE 5**  
**CEDAR HILLS REGIONAL LANDFILL REGIONAL AQUIFER QUARTERLY MONITORING WELLS**  
**SUMMARY OF WAC 173-351 APPENDIX I INTRAWELL PREDICTION LIMIT VALUES**  
(Data Collected from April 1, 2019 - June 30, 2019)

Parameter	Well	Units	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
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L	ug/L
<b>Upgradient and Crossgradient Wells</b>																						
MW-21	Limit	0.001	0.00117075	0.00518226	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.002	0.004	1.9	0.2	0.2	0.2	0.02	
	Result	<0.0003	0.000988	0.00468	<0.0001	<0.00005	<0.0002	<0.00005	<0.0002	<0.0001	0.000123	<0.0005	<0.00004	<0.0001	<0.000075	<0.0005	<0.01	<0.1	<0.1	<0.1	<0.01	
MW-24	Limit	0.001	0.001	0.00211186	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.002	0.004	1	0.39	0.2	0.2	0.02	
	Result	<0.0003	0.000606	0.00203	<0.0001	<0.00005	<0.0002	<0.00005	<0.0002	<0.0001	<0.0001	<0.0005	<0.00004	<0.0001	<0.000075	<0.0005	<0.01	<0.1	<0.1	<0.1	<0.01	
MW-56	Limit	0.001	0.0025	0.0478	0.001	0.002	0.00755	0.00389	0.0154	0.0033	0.01	0.001	0.00694	0.001	0.0178	0.0235	2.78	1.88021329	0.2	0.2	0.02	
	Result	<0.0003	0.000772	0.0045	<0.0001	<0.00005	<0.0002	0.000106	<0.0002	<0.0001	0.000496	<0.0005	<0.00004	<0.0001	0.000203	0.00124	0.624	1.48	<0.1	<0.1	<0.01	
MW-59	Limit	0.001	0.001	0.00548	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.002	0.00748	0.29	1.37	0.2	0.45	0.02	
	Result	<0.0003	0.000466	0.00408	<0.0001	<0.00005	0.000236	<0.00005	0.000452	<0.0001	0.000214	<0.0005	<0.00004	<0.0001	<0.000075	0.00216	0.02	<b>1.38</b>	<0.1	<0.1	<0.01	
MW-64	Limit	0.001	0.01	0.02542971	0.001	0.002	0.005	0.00385	0.00512	0.001	0.0153	0.001	0.003	0.001	0.00606	0.0385	0.121	0.2	0.2	0.2	0.5	
	Result	<0.0003	0.00122	0.0118	<0.0001	0.000103	0.000269	0.000894	0.000401	<0.0001	0.00409	<0.0005	<0.00004	<0.0001	0.000404	0.00108	0.01	<0.1	<0.1	<0.1	<0.01	
MW-65	Limit	0.001	0.00242	0.00829587	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.002	0.004	0.055	0.2	0.2	0.2	0.13614627	
	Result	<0.0003	0.00129	0.00655	<0.0001	<0.00005	<0.0002	<0.00005	<0.0002	<0.0001	0.000159	<0.0005	<0.00004	<0.0001	<0.000075	0.000658	<0.01	<0.1	<0.1	<0.1	0.03	
MW-66	Limit	0.001	0.001	0.00649	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.00104	0.003	0.001	0.002	0.004	0.86122498	0.2	0.2	0.2	0.02	
	Result	<0.0003	0.000643	0.00449	<0.0001	<0.00005	0.000215	<0.00005	<0.0002	<0.0001	0.000187	0.000944	<0.00004	<0.0001	0.000723	0.00137	0.434	<0.1	<0.1	<0.1	<0.01	
MW-68	Limit	0.001	0.49938791	0.01914598	0.001	0.002	0.005	0.003	0.00728512	0.001	0.01	0.001	0.003	0.001	0.0037	0.004	0.13	0.2	0.2	0.2	0.02	
	Result	<0.0003	0.0208	0.0111	<0.0001	<0.00005	<0.0002	0.000217	0.000447	<0.0001	0.000456	<0.0005	<0.00004	<0.0001	0.000344	0.000661	<0.01	<0.1	<0.1	<0.1	<0.01	
MW-73	Limit	0.001	0.00151	0.0225	0.001	0.002	0.005	0.003	0.00363	0.00237	0.01	0.0016	0.003	0.001	0.00315	0.0066	2.01	0.2	0.2	0.2	0.02	
	Result	<0.0003	0.000681	0.00271	<0.0001	<0.00005	0.000281	<0.00005	0.000216	<0.0001	0.000294	<0.0005	<0.00004	<0.0001	0.00127	<0.0005	1.06	<0.1	<0.1	<0.1	<0.01	
MW-76	Limit	0.001	0.001	0.00455127	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.002	0.004	6	2.49165441	0.66545442	14.9360811	0.02	
	Result	<0.0003	0.000193	0.00354	<0.0001	<0.00005	0.00113	0.0000693	0.00146	<0.0001	0.000467	<0.0005	<0.00004	<0.0001	0.000594	<0.0005	0.961	0.33	0.309	6.07	<0.01	
MW-81	Limit	0.001	0.001	0.00487	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.00104	0.003	0.001	0.00253	0.00895	1.73145978	0.2	0.2	0.2	0.02	
	Result	<0.0003	0.000554	0.00351	<0.0001	<0.00005	0.000245	<0.00005	0.000285	<0.0001	0.000195	0.000799	<0.00004	<0.0001	0.00178	0.00167	1.5	<0.1	<0.1	<0.1	<0.01	
MW-82	Limit	0.001	0.001	0.00349785	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.002	0.004	1.54271435	0.2	0.31	8.8	0.02	
	Result	<0.0003	0.000241	0.00124	<0.0001	<0.00005	0.000687	<0.00005	<0.0002	<0.0001	0.000881	<0.0005	<0.00004	<0.0001	0.00132	0.000571	1.12	0.1 U	0.1 U	4.28	0.01 U	
MW-83	Limit	0.001	0.001	0.01147502	0.001	0.002	0.005	0.003	0.00601	0.001	0.01	0.001	0.003	0.001	0.002	0.004	4.67816622	0.2	0.2	2.86796042	0.02	
	Result	<0.0003	0.000306	0.0071	<0.0001	<0.00005	<0.0002	0.000148	0.00252	<0.0001	0.00294	<0.0005	<0.00004	<0.0001	0.000882	0.000802	1.04	<0.1	<0.1	1.41	<0.01	
MW-84	Limit	0.001	0.001	0.00437086	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.002	0.004	0.68	0.2	0.2	0.2	0.02	
	Result	<0.0003	0.00032	<b>0.00482</b>	<0.0001	<0.00005	<0.0002	<0.00005	<0.0002	<0.0001	0.000289	0.000696	<0.00004	<0.0001	0.000517	<0.0005	0.143	<0.1	<0.1	<0.1	<0.01	
MW-93	Limit	0.001	0.00143097	0.00953501	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.00231	0.0112	0.18	0.2	0.2	0.2	0.02	
	Result	<0.0003	0.00129	0.00804	<0.0001	<0.00005	<0.0002	0.0000855	<0.0002	<0.0001	0.000191	<0.0005	<0.00004	<0.0001	0.0019	0.00101	<0.01	<0.1	<0.1	<0.1	<0.01	
MW-94	Limit	0.001	0.001	0.00542	0.001	0.002	0.005	0.003	0.0051	0.001	0.01	0.001	0.003	0.001	0.002	0.004	2.72	0.2	0.2	3.8148849	0.02	
	Result	<0.0003	0.00012	0.00207	<0.0001	<0.00005	<0.0002	0.0000885	0.00115	<0.0001	0.000537	<0.0005	<0.00004	<0.0001	0.00112	<0.0005	0.473	<0.1	<0.1	2.09	<0.01	
MW-95	Limit	0.001	0.00111	0.00453001	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.002	0.004	0.05	0.2	0.2	0.2	0.02	
	Result	0.0003 U	0.00108	<b>0.00473</b>	0.0001 U	5E-05 U	0.0002 U	0.000204	0.0002 U	0.0001 U	0.000273	0.0005 U	4E-05 U	0.0001 U	0.000332	0.00051	0.01 U	0.1 U	0.1 U	0.1 U	0.01 U	

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

**TABLE 5**  
**CEDAR HILLS REGIONAL LANDFILL REGIONAL AQUIFER QUARTERLY MONITORING WELLS**  
**SUMMARY OF WAC 173-351 APPENDIX I INTRAWELL PREDICTION LIMIT VALUES**  
(Data Collected from April 1, 2019 - June 30, 2019)

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
		Downgradient																			
MW-67	Limit	0.001	0.00202	0.01795438	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.002	0.004	1.9	0.2	0.2	0.2	0.02
	Result	< 0.0003	<b>0.0045</b>	<b>0.0196</b>	< 0.0001	0.0000554	< 0.0002	0.000679	0.000797	< 0.0001	0.00111	< 0.0005	< 0.00004	< 0.0001	<b>0.00209</b>	0.0016	0.087	< 0.1	< 0.1	< 0.1	< 0.01
MW-69	Limit	0.001	0.00386	0.01423792	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.002	0.0112	0.076	0.2	0.2	0.2	0.02
	Result	< 0.0003	0.00269	0.0124	< 0.0001	< 0.00005	0.000213	0.0000667	0.000261	< 0.0001	0.000229	< 0.0005	< 0.00004	< 0.0001	0.000275	0.00201	< 0.01	< 0.1	< 0.1	< 0.1	< 0.01
MW-72	Limit	0.001	0.001	0.01624635	0.001	0.002	0.005	0.003	0.00331	0.00104	0.01	0.001	0.003	0.001	0.002	0.02574987	0.15	0.2	0.2	0.2	0.02
	Result	< 0.0003	0.0000966	0.013	< 0.0001	< 0.00005	0.000304	< 0.00005	0.00021	< 0.0001	0.000172	< 0.0005	< 0.00004	< 0.0001	0.0000808	0.00164	< 0.01	< 0.1	< 0.1	< 0.1	< 0.01
MW-74	Limit	0.001	0.00112	0.01659103	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.00104	0.003	0.001	0.002	0.004	0.487	0.2	0.2	0.2	0.02
	Result	< 0.0003	0.000754	0.0127	< 0.0001	< 0.00005	< 0.0002	< 0.00005	0.000321	< 0.0001	0.000953	0.00064	< 0.00004	< 0.0001	0.000796	0.000675	0.271	< 0.1	< 0.1	< 0.1	< 0.01
MW-75	Limit	0.001	0.001	0.01335613	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.002	0.004	0.05	0.2	0.2	0.2	0.02
	Result	< 0.0003	0.000451	0.0125	< 0.0001	< 0.00005	< 0.0002	< 0.00005	< 0.0002	< 0.0001	< 0.0001	< 0.0005	< 0.00004	< 0.0001	< 0.000075	< 0.0005	0.015	< 0.1	< 0.1	< 0.1	< 0.01
MW-80	Limit	0.001	0.0392	0.023	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.002	0.0117	0.028	0.2	0.2	0.2	0.02
	Result	0.0003 U	0.00366	0.0139	0.0001 U	5E-05 U	0.00025	5E-05 U	0.0002 U	0.0001 U	0.000135	0.0005 U	4E-05 U	0.0001 U	7.5E-05 U	0.0005 U	0.01 U	0.1 U	1 U	0.1 U	0.01 U
MW-85	Limit	0.001	0.001	0.00723398	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.00132	0.003	0.001	0.002	0.004	1.63	0.2	0.2	0.2	0.02
	Result	< 0.0003	0.000704	0.00677	< 0.0001	< 0.00005	< 0.0002	< 0.00005	0.000277	< 0.0001	0.000227	0.000914	< 0.00004	< 0.0001	0.000991	0.000641	0.105	< 0.1	< 0.1	< 0.1	< 0.01
MW-86	Limit	0.001	0.0194	0.0092398	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.00198556	0.003	0.001	0.00336	0.004	2.5	0.2	0.2	0.2	0.02
	Result	< 0.0003	0.00377	0.00587	< 0.0001	< 0.00005	< 0.0002	0.0000953	< 0.0002	< 0.0001	0.000129	< 0.0005	< 0.00004	< 0.0001	0.000428	0.000608	0.017	< 0.1	< 0.1	< 0.1	< 0.01
MW-87	Limit	0.001	0.0589252	0.03919632	0.001	0.002	0.005	0.003	0.00347	0.001	0.01	0.001	0.003	0.001	0.00468	0.004	0.0803	0.2	0.2	0.2	0.02
	Result	< 0.0003	0.000907	0.0258	< 0.0001	< 0.00005	< 0.0002	0.000124	< 0.0002	< 0.0001	0.000117	< 0.0005	< 0.00004	< 0.0001	0.000144	0.00135	< 0.01	< 0.1	< 0.1	< 0.1	< 0.01
MW-88	Limit	0.001	0.00104822	0.00244765	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.00296231	0.004	1.7	0.2	0.2	0.2	0.02
	Result	< 0.0003	0.000963	0.00223	< 0.0001	< 0.00005	0.000648	< 0.00005	< 0.0002	< 0.0001	0.000101	< 0.0005	< 0.00004	< 0.0001	0.00267	< 0.0005	0.656	< 0.1	< 0.1	< 0.1	< 0.01
MW-89	Limit	0.001	0.0266	0.0256	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.002	0.03918775	0.095	0.2	0.2	0.2	0.04
	Result	< 0.0003	0.00376	0.00939	< 0.0001	< 0.00005	< 0.0002	< 0.00005	< 0.0002	< 0.0001	0.000118	< 0.0005	< 0.00004	< 0.0001	0.000144	0.00171	< 0.01	< 0.1	< 0.1	< 0.1	< 0.01
MW-100	Limit	0.001	0.01713851	0.0121	0.001	0.002	0.005	0.003	0.00226	0.001	0.01	0.001	0.003	0.001	0.002	0.00922	0.26	0.2	0.2	0.2	0.02
	Result	< 0.0003	0.00447	0.00704	< 0.0001	< 0.00005	0.000211	0.000235	0.00026	< 0.0001	0.000561	< 0.0005	< 0.00004	< 0.0001	0.000105	0.00147	< 0.01	< 0.1	< 0.1	< 0.1	< 0.01

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

**TABLE 6**  
**CEDAR HILLS REGIONAL LANDFILL**  
**REGIONAL AQUIFER VOLATILE ORGANIC COMPOUND DETECTIONS**  
(Data Collected from April 1, 2019 - June 30, 2019)

Analyte	Site ID	Date	Sample ID	Sample Value (µg/L)
<b>Upgradient and Crossgradient Wells</b>				
Chloromethane	MW-59	4/10/2019	W59-190410-	0.26 JT
cis-1,2,-Dichloroethene	MW-56	4/8/2019	W56-190408-	1.48
	MW-59	4/10/2019	W59-190410-	1.38
	MW-76	4/10/2019	W76-190410-	0.327
Tetrachloroethene	MW-76	4/10/2019	W76-190410-	0.309
Trichloroethene	MW-76	4/10/2019	W76-190410-	6.07
	MW-82	5/22/2019	W82-190522-	4.28
	MW-83	4/12/2019	W83-190412-	1.41
	MW-94	4/10/2019	W94-190410-	2.09
Vinyl Chloride	MW-65	4/12/2019	W65-190412-	0.0261
<b>Wells Downgradient to Waste Cells and North end Facilities</b>				
Acetone	MW-80	5/14/2019	W80-190514-	2.65 JT
Carbon Disulfide	MW-86	4/12/2019	W86-190412-	0.107 JT

**TABLE 7**  
**CEDAR HILLS REGIONAL LANDFILL**  
**PERCHED ZONES GROUNDWATER QUALITY STANDARD EXCEEDANCES**  
(Data Collected from April 1, 2019 - June 30, 2019)

Parameter	Units	Well ID	Sample Date	Sample ID	Sample Value
<b>East Perched Zone Wells</b>					
pH (Field)	pH Units	MW-30A	5/13/2019	W30A190513-	6.41
		MW-62	5/28/2019	W62-190528-	6.49
1,1-Dichloroethane	µg/L	MW-30A	5/13/2019	W30A190513-	1.77
Arsenic, Total	mg/L	MW-30A	5/13/2019	W30A190513-	0.000475
		MW-47	5/13/2019	W47-190513-	0.00235
		MW-62	5/28/2019	W62-190528-	0.000195
Iron, Dissolved	mg/L	MW-47	5/13/2019	W47-190513-	4.24
Manganese, Dissolved	mg/L	MW-47	5/13/2019	W47-190513-	1.66
Nitrate	mg/l	MW-30A	5/13/2019	W30A190513-	15.9
Vinyl Chloride	µg/L	MW-47	5/13/2019	W47-190513-	5.33
<b>South Solid Waste Area Perched Wells</b>					
pH (Field)	pH Units	MW-101	5/28/2019	W101190528-	6.48
Arsenic, Total	mg/L	MW-101	5/28/2019	W101190528-	0.00961
Iron, Dissolved	mg/L	MW-101	5/28/2019	W101190528-	0.876
Manganese, Dissolved	mg/L	MW-101	5/28/2019	W101190528-	1.14
Vinyl Chloride	µg/L	MW-101	5/28/2019	W101190528-	0.478

See Data Qualifier List for Qualifier Information.

Exceedance Criteria: WAC 173-200-040 - Water Quality Standards for Groundwaters of the State of Washington



**Table 8**  
**Ion Balance Calculations**  
**Cedar Hills Landfill Perched Zones GW Monitoring Wells**

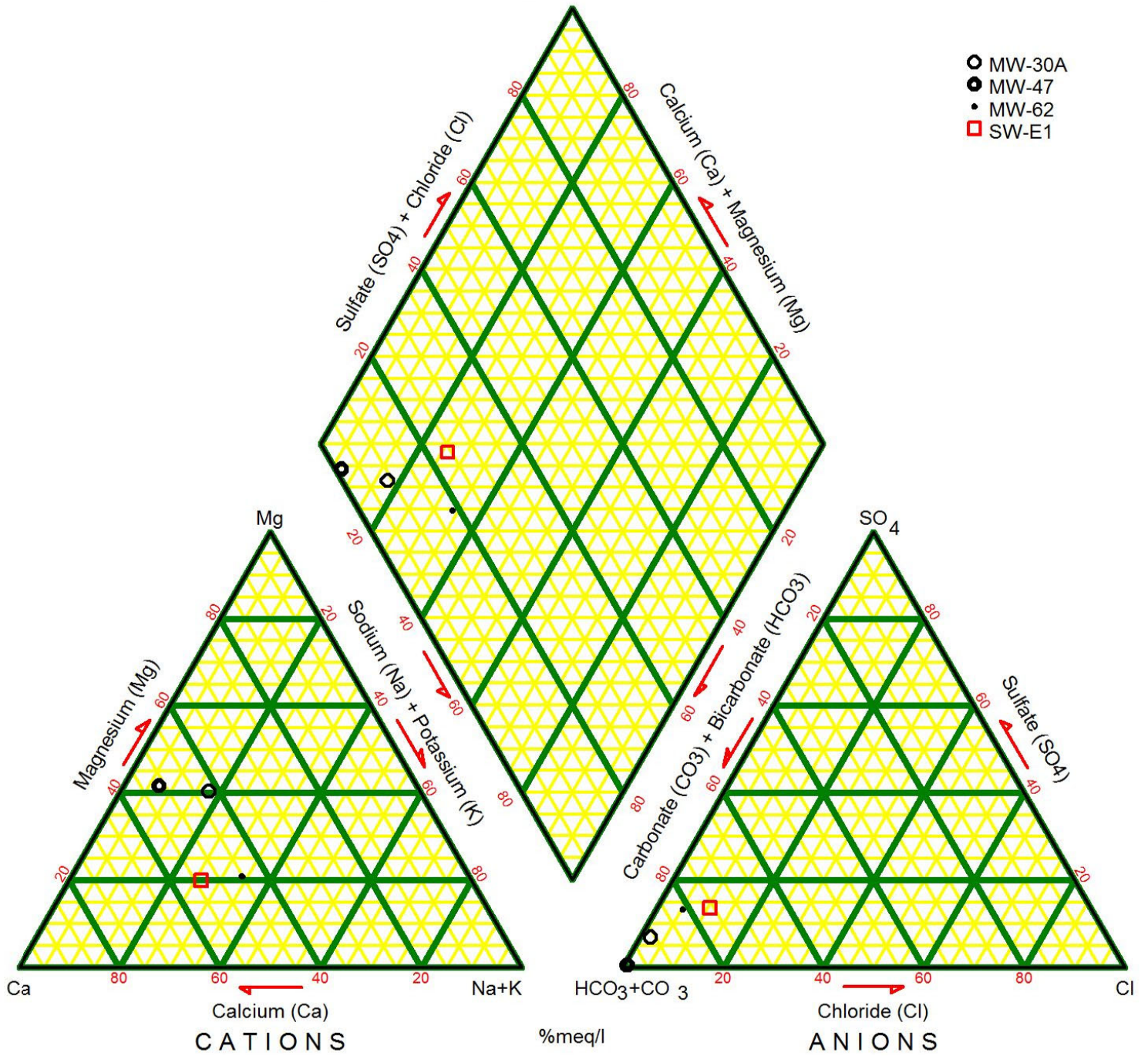
Data Collected from April 1, 2019 to June 30, 2019

Site ID Date	East Perched Zone									SSWA			
	MW-30A 10/15/18			MW-47 10/17/18			MW-62 12/3/18			MW-101 10/4/18			
Molecular Cations	Weight	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)
pH		6.8			6.9			6.0			6.9		
Conductance		265			880			130			510		
TDSobs		213			705			114			286		
Calcium	40.1	26.3	1.31238	41.9	142.0	7.08583	51.0	12.7	0.63373	45.1	55.0	2.74451	43.4
Magnesium	24.3	15.4	1.26723	40.5	70.1	5.76836	41.5	3.6	0.29377	20.9	32.8	2.69903	42.7
Potassium	39.1	1.5	0.03888	1.2	5.7	0.14476	1.0	0.7	0.01898	1.4	2.7	0.06931	1.1
Sodium	23.0	11.7	0.50892	16.3	19.1	0.8308	6.0	10.5	0.45672	32.5	16.9	0.73511	11.6
Iron	55.8	0.0	0.00118	0.0	0.1	0.00201	0.0	0.0	0.00036	0.0	0.9	0.03076	0.5
Manganese	54.9	0.0	1.6E-05	0.0	1.6	0.05643	0.4	0.0	1.8E-05	0.0	1.3	0.04769	0.8
Ammonia-N	14.0	0.0	0.00014	0.0	0.1	0.00495	0.0	0.0	0.00014	0.0	0.0	0.00108	0.0
<b>Total Cations (meq/L)</b>			<b>3.1</b>			<b>13.9</b>			<b>1.4</b>			<b>6.3</b>	
<b>Anions</b>													
Alkalinity, Total		93.1			653			42			274		
Carbonate	60.0	0.03697	0.00123	0.0	0.33398	0.01113	0.1	0.00277	9.2E-05	0.0	0.14014	0.00467	0.1
Bicarbonate	61.0	113.51	1.86049	68.2	795.98	13.0469	97.8	51.23	0.83978	61.3	334.00	5.4745	97.0
Chloride	35.5	2.6	0.07362	2.7	5.6	0.15796	1.2	3.2	0.09139	6.7	2.8	0.07757	1.4
Nitrate-N	14.0	7.8	0.55472	20.3	0.0	0.00071	0.0	2.9	0.2099	15.3	0.0	0.00207	0.0
Sulfate	96.1	11.4	0.23736	8.7	5.8	0.12139	0.9	11.0	0.22903	16.7	4.1	0.08474	1.5
<b>Total Anions (meq/L)</b>			<b>2.7</b>			<b>13.3</b>			<b>1.4</b>			<b>5.6</b>	
<b>Total Ions (meq/L)</b>			<b>5.9</b>			<b>27.2</b>			<b>2.8</b>			<b>12.0</b>	
<b>Cation/Anion Ratio</b>			<b>1.15</b>			<b>1.04</b>			<b>1.02</b>			<b>1.12</b>	
<b>Percent Difference</b>			<b>6.9</b>			<b>2.0</b>			<b>1.2</b>			<b>6</b>	
<b>TRILINEAR DIAGRAM DATA</b>													
sum (Ca, Mg, Na+K)			3.13			13.83			1.40			6.25	
Calcium				42.0			51.2			45.16			43.93
Magnesium				40.5			41.7			20.94			43.20
Sodium + Potassium				17.5			7.1			33.90			12.87
										100.0			
sum (SO <sub>4</sub> , Cl, HCO <sub>3</sub> +CO <sub>3</sub> )			2.17			13.34			1.16			5.64	
Sulfate				10.9			0.9			19.7			1.5
Chloride				3.4			1.2			7.9			1.4
Bicarbonate + Carbonate				85.7			97.9			72.4			97.1
				100.0			100.0			100.0			100.0



# Cedar Hills Regional Landfill

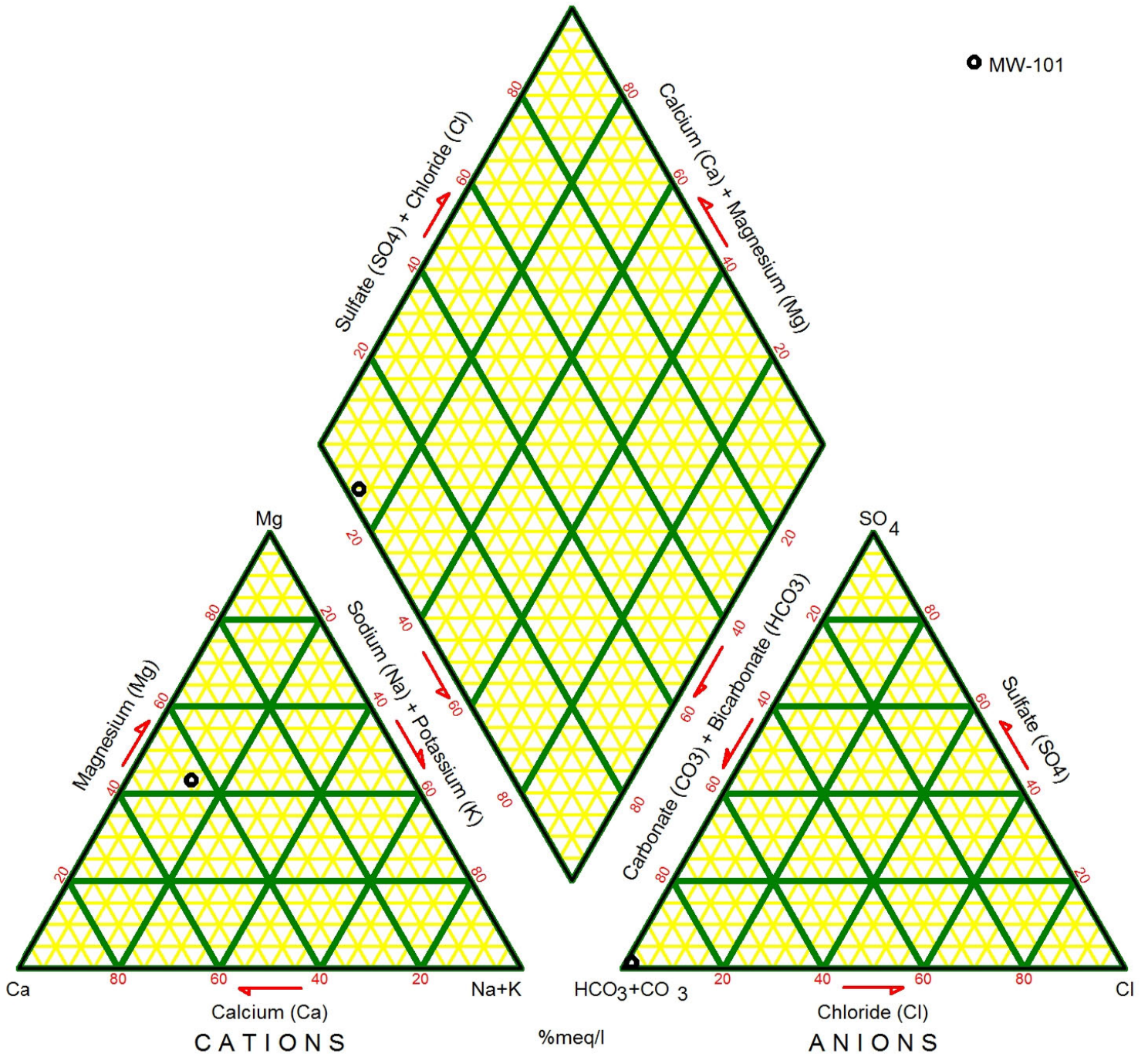
Figure 7. Trilinear Diagram East Area Perched Wells



# Cedar Hills Regional Landfill

Figure 8. Trilinear Diagram SSW Perched Area Wells

● MW-101



**TABLE 9**  
**CEDAR HILLS REGIONAL LANDFILL PERCHED ZONES MONITORING WELLS**  
**SUMMARY OF WAC 173-351 APPENDIX I INTRAWELL PREDICTION LIMIT VALUES**  
(Data Collected from April 1, 2019 to June 30, 2019)

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	1,1-Dichloroethene	1,1-Dichloroethene	1,2-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	
Well	Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
<b>East Perched Zone Wells</b>																								
MW-30A	Limit	0.001	0.001	0.008	0.001	0.002	0.005	0.003	0.010	0.001	0.010	0.001	0.003	0.001	0.003	0.02	16.00	6.50	0.20	0.23	11.86	0.20	1.57	0.03
	Result	<0.0003	0.000475	0.0043	<0.0001	<0.00005	0.000765	<0.00005	0.000346	<0.0001	0.000837	<0.0005	<0.00004	<0.0001	0.00206	0.00118	15.9	1.77	<2	<0.1	1.95	<0.1	0.786	<0.01
MW-47	Limit	0.001	0.011	0.047	0.001	0.002	0.005	0.003	0.011	0.001	0.010	0.001	0.003	0.001	0.003	0.17	0.05	1.01	0.20	0.44	6.75	0.41	0.23	8.54
	Result	<0.0003	0.00235	0.0413	<0.0001	<0.00005	<0.0002	0.000377	0.000345	<0.0001	0.00242	<0.0005	<0.00004	<0.0001	0.000208	0.000647	<0.01	0.589	<2	0.109 JT	1.68	<0.1	<0.1	5.33
MW-62	Limit	0.001	0.001	0.004	0.001	0.002	0.005	0.003	0.002	0.001	0.010	0.001	0.003	0.001	0.002	0.00	7.70	11.97	0.20	0.20	16.05	0.21	0.47	0.09
	Result	<0.0003	0.000195	0.0016	<0.0001	<0.00005	0.000735	0.000127	0.000298	<0.0001	0.00116	<0.0005	<0.00004	<0.0001	0.000753	0.00121	2.61	0.393	<0.1	<0.1	0.92	<0.1	<0.1	<0.01
<b>South Solid Waste Area Wells</b>																								
MW-101	Limit	0.001	0.014	0.036	0.001	0.002	0.005	0.003	0.004	0.001	0.010	0.001	0.003	0.001	0.004	0.01	0.06	0.21	0.20	0.22	0.24	0.20	0.20	0.93
	Result	<0.0003	0.00961	0.0187	<0.0001	0.0000789	0.000352	0.00026	0.000487	<0.0001	0.00351	<0.0005	<0.00004	<0.0001	0.00036	0.00171	0.013 T	0.154 JT	<0.1	0.139 JT	0.21	<0.1	<0.1	0.48

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



**TABLE 10**  
**CEDAR HILLS REGIONAL LANDFILL**  
**PERCHED ZONES VOLATILE ORGANIC COMPOUND DETECTIONS**  
(Data Collected from April 1, 2019 to June 30, 2019)

Analyte	Site ID	Date	Sample ID	Sample Value (ug/L)
<b>East Perched Zone Wells</b>				
1,1-Dichloroethane	MW-30A	5/13/2019	W30A190513-	1.77
	MW-47	5/13/2019	W47-190513-	0.589
	MW-62	5/28/2019	W62-190528-	0.393
1,2-Dichloroethane	MW-47	5/13/2019	W47-190513-	0.109
cis-1,2,-Dichloroethene	MW-30A	5/13/2019	W30A190513-	1.95
	MW-47	5/13/2019	W47-190513-	1.68
	MW-62	5/28/2019	W62-190528-	0.919
Dichlorodifluoromethane	MW-47	5/13/2019	W47-190513-	3.94
Trichloroethene	MW-30A	5/13/2019	W30A190513-	0.786
Vinyl Chloride	MW-47	5/13/2019	W47-190513-	5.33
<b>South Solid Waste Area Perched Wells</b>				
1,1-Dichloroethane	MW-101	5/28/2019	W101190528-	0.154 JT
1,2-Dichloroethane	MW-101	5/28/2019	W101190528-	0.139 JT
Chloroethane	MW-101	5/28/2019	W101190528-	0.307
cis-1,2,-Dichloroethene	MW-101	5/28/2019	W101190528-	0.205
Vinyl Chloride	MW-101	5/28/2019	W101190528-	0.478

See Data Qualifier List for Qualifier Information.

**Table 11**  
**CEDAR HILLS REGIONAL LANDFILL**  
**STORM AND SURFACE WATER MONITORING ACTIVITIES 2nd QUARTER 2019**

<b>Station ID</b>	<b>Date</b>	<b>Planned Activity</b>	<b>Sample ID</b>	<b>Comment</b>
SW-GS1	4/2/19	NPDES Permit Sample	SGS1190402P	
SW-GS1	4/2/19	QA/QC Sample	SGS1190402D	Field Duplicate
SW-SL3	4/2/19	NPDES Permit Sample	SSL3190402P	
SW-N4	4/2/19	NPDES Permit Sample	SN4-190402P	
SW-TD1	--	Area 5 Top Deck Monitoring	--	No flow, no sample taken.
SW-TD2	--	Area 5 Top Deck Monitoring	--	No flow, no sample taken.
SW-TD4	--	Area 5 Top Deck Monitoring	--	No flow, no sample taken.
SW-TD6	--	Area 5 Top Deck Monitoring	--	No flow, no sample taken.
SW-EMER	4/5/19	Emergency Sample	SA8S190405E	
SW-EMER	4/5/19	Emergency Sample	SA7W190405E	
Stream Gauges	4/1/19	Monthly Stream Gauge Level Measurement	--	
Stream Gauges	5/22/19	Monthly Stream Gauge Level Measurement	--	
Stream Gauges	6/14/19	Monthly Stream Gauge Level Measurement	--	
Stream Gauges	6/21/19	Monthly Stream Gauge Level Measurement	--	



**TABLE 12**  
**CEDAR HILLS REGIONAL LANDFILL**  
**STORMWATER PERMIT CRITERIA EXCEEDANCES**  
(Data Collected from April 1, 2019 - June 30, 2019)

**SUMMARY OF ISGP EXCEEDANCES**

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

\*ISGP - Industrial General Stormwater Permit

**SUMMARY OF CSWGP EXCEEDANCES**

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

\*ISGP - Industrial Stormwater General Permit

**TABLE 13**  
**CEDAR HILLS REGIONAL LANDFILL**  
**VOLATILE ORGANIC COMPOUND DETECTIONS IN BLANKS**  
(Data Collected from April 1, 2019 to June 30, 2019)

Analyte	Site ID	Date	Sample ID	Sample Value (µg/L)
Acetone	FIELD BLANK	5/28/2019	W62-190528F	3.77 JT
Carbon Disulfide	FIELD BLANK	5/28/2019	W62-190528F	0.115 JT
2-Butanone	FIELD BLANK	5/28/2019	W62-190528F	27.5

See Data Qualifier List for Qualifier Information.

Analyte	Site ID	Date	Sample ID	Sample Value (µg/L)
Acetone	VOA TRIP BLANK	5/10/2019	VTRP190514Y	3.01 JT
	VOA TRIP BLANK	5/10/2019	VTRP190513Y	4.93 JT
	VOA TRIP BLANK	5/17/2019	VTRP190522Z	3.23 JT
	VOA TRIP BLANK	5/17/2019	VTRP190520X	2.61 T
	VOA TRIP BLANK	5/14/2019	VTRP190515X	3.27 JT
	VOA TRIP BLANK	5/15/2019	VTRP190517Y	5

**Table 14**  
**Water Quality Standards for Groundwaters of the State of Washington**

Analyte	CAS No.	Ground Water Quality Criteria Criterion*	
<b>I. PRIMARY AND SECONDARY CONTAMINANTS AND RADIONUCLIDES</b>			
<b>A. Primary Contaminants</b>			
Barium	7440-39-3	1.0	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	4.0	mg/L
Nitrate	14797-55-8	10.0	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>B. Secondary Standards</b>			
Copper	7440-50-8	1.0	mg/L
Iron	7439-89-6	0.3	mg/L
Manganese	7439-96-5	0.05	mg/L
Zinc	7440-66-6	5.0	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
<b>C. Radionuclides and Radioactivity</b>			
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
<b>II. CARCINOGENS</b>			
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	0.000006	ug/L
2,4,6-Trichlorophenol	88-06-2	4.0	ug/L
2,4-Dinitrotoluene	121-14-2	0.1	ug/L
2,4-Toluenediamine	95-80-7	0.002	ug/L
2,6-Dinitrotoluene	606-20-2	0.1	ug/L
2-Methoxy-5-nitroaniline	99-59-2	2.0	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	6.0	ug/L
3,3'-Dimethylbenzidine	119-93-7	0.007	ug/L
4,4'-Methylene bis(N,N'-dimethyl) aniline	101-61-1	2.0	ug/L
4-Chloro-2-methyl aniline	95-69-2	0.1	ug/L
4-Chloro-2-methyl aniline 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 14**  
**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
Benzotrichloride	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
Furmecyclox	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	17.0	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	2.0	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 15  
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 16**  
**CEDAR HILLS REGIONAL LANDFILL**  
**LAB DATA REVIEW - SUSPECT DATA**  
(Data Collected from April 1, 2019 - June 30, 2019)

Parameter	Units	Well ID	Sample Date	Sample ID	Sample Value	Cause of Unuseability
NO SUSPECT DATA THIS QUARTER						

See Data Qualifier List for Qualifier Information.

# **APPENDIX A**

## **Potentiometric Surface Maps and Aquifer Flow Calculations**







## King County

### Water and Land Resources Division

Department of Natural Resources and Parks  
King Street Center  
201 South Jackson Street, Suite 600  
Seattle, WA 98104-3855

206-477-4800 Fax 206-296-0192  
TTY Relay: 711

# Memorandum

June 28, 2019

TO: Kris McArthur, Engineer II, Facility Engineering and Science Section, Solid Waste Division, Department of Natural Resources and Parks (DNRP)

FM: Sevin Bilir, Environmental Scientist IV, Science and Technical Support Section, Water and Land Resources Division, DNRP

RE: Potentiometric Groundwater Surface Maps & Groundwater Velocity Calculations Second Quarter 2019 Results – Regional Aquifer Cedar Hills Regional Landfill, King County, Washington  
Project No. 1033379 – Task 02.14.137.20

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The King County Water and Land Resources Division (WLR Division) submits this memorandum report on groundwater conditions during the second quarter of 2019 for the Cedar Hills Regional Landfill (landfill), in accordance with the *Proposal for Potentiometric Groundwater Surface Maps & Groundwater Velocity Calculations* (WLR Division, 2019). King County Solid Waste Division (SWD) personnel measured regional aquifer groundwater elevations at the landfill on April 1, 2019. These measurements were received by the WLR Division on June 3, 2019 and 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 have been no significant changes in the interpreted regional aquifer groundwater conditions since the report submitted for the first quarter of the 2019 monitoring event.

### ***Groundwater Elevation Data***

SWD collected regional aquifer groundwater level measurements at 41 monitoring wells during the second quarter of 2019. These wells were completed in the regional aquifer as referred to in *Potentiometric Groundwater Surface Mapping and Groundwater Velocity Calculation – Cedar Hills Landfill* (Aspect, 2010).

Table A-1 lists the well identifications, locations, well details, measured groundwater levels, and calculated groundwater elevations for the regional aquifer. A total of 23 wells had measured water levels within ten feet of the top of the screened interval and were used for potentiometric surface mapping purposes.

Figure A-1 shows well locations, groundwater elevations at the 23 selected wells, groundwater potentiometric surface contours, and interpreted groundwater flow direction in the regional aquifer for the April 1, 2019 measurement event.

### ***Direction of Groundwater Flow***

Figure A-1 shows interpreted groundwater potentiometric surface contours and groundwater flow directions in the regional aquifer, based on the April 1, 2019 measurements. Groundwater elevations indicate that groundwater in the regional aquifer generally flowed north beneath the southern portion of the landfill with minor components of flow to the north-northwest and north-northeast. In the central portion of the landfill, groundwater generally flowed to the north and north-northwest. At the northern end of the landfill, groundwater generally flowed to the northeast and north-northeast.

### ***Groundwater Parameters***

Horizontal groundwater velocity was calculated using the following formula:

$$\text{where: } v = \frac{1}{n_{eff}} K \frac{\Delta H}{\Delta L}$$

$v$  = Groundwater velocity [L/t]

$n_{eff}$  = Effective porosity [dimensionless]

$K$  = Hydraulic conductivity [L/t]

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

Horizontal groundwater velocity was calculated for the regional aquifer below the landfill. Horizontal groundwater velocity was calculated for the southern, central, and northern portions of the regional aquifer, based on spatial differences in aquifer parameters and hydraulic gradients. The hydraulic conductivity and effective porosity values were based on the range referred to in the *Potentiometric Groundwater Surface Mapping and Groundwater Velocity Calculation – Cedar Hills Landfill* (Aspect, 2010).

Table A-2 presents a summary of the groundwater parameters used to calculate a groundwater velocity from the second quarter 2019 data. The hydraulic gradient was greatest under the southern portion of the landfill and smallest under the northern portion. On April 1, 2019, average horizontal groundwater velocity within the regional aquifer ranged from 0.01 feet per day (ft/d) under the southern portion of the landfill to 2.2 ft/d under the central portion of the landfill.

## References

Aspect Consulting (Aspect). 2010. Potentiometric Groundwater Surface Mapping and Groundwater Velocity Calculation – Cedar Hills Landfill. Unpublished work. April 30.

KCWLR Division. 2019. *Proposal for 2019 Potentiometric Groundwater Surface Maps & Groundwater Velocity Calculations*; King County Closed Landfills (Cedar Falls, Enumclaw, Hobart and Vashon Island) and Cedar Hills Regional Landfill. January 31.

Thank you for the opportunity to provide hydrogeologic services to the SWD. If you have any questions, please feel free to contact me at 206-477-4646 or [sevin.bilir@kingcounty.gov](mailto:sevin.bilir@kingcounty.gov).

This document was prepared under the supervision of a licensed hydrogeologist, whose seal appears below.



Sevin Bilir, WA LHG  
Environmental Scientist IV  
King County Water and Land Resources Division

### Enclosures:

- Table A-1: Groundwater Elevations – Second Quarter 2019
- Table A-2: Groundwater Parameters – Second Quarter 2019
- Figure A-1: Groundwater Potentiometric Surface Map – Second Quarter 2019 – Regional Aquifer

**Table A-1: Groundwater Elevations – Second Quarter 2019**

**Cedar Hills Regional Landfill  
King County, Washington**

							April 1, 2019	
Well Identification	Easting (ft)	Northing (ft)	Top of Casing Elevation (ft MSL)	Top of Screen Elevation (ft)	Bottom of Screen Elevation (ft)	Measured Depth to Water (ft)	Groundwater Elevations (ft MSL)	
Wells with water levels within 10 feet of the top of screen	MW-60	1701154.47	167873.20	567.15	334.81	325.81	225.08	342.07
	MW-64	1701980.27	168772.19	596.55	334.03	320.23	265.21	331.34
	MW-66	1699750.19	174250.32	531.28	294.39	280.59	238.15	293.13
	MW-67	1701776.69	172610.65	516.43	297.80	284.00	219.61	296.82
	MW-68	1701917.32	170609.35	647.07	311.29	292.29	331.12	315.95
	MW-69	1698061.86	172400.20	653.69	293.57	279.97	355.40	298.29
	MW-72	1698229.92	170987.71	671.87	303.63	294.03	360.52	311.35
	MW-73	1698954.95	174995.59	485.70	288.11	278.81	191.71	293.99
	MW-74R	1700386.85	173813.79	531.26	289.90	280.40	239.47	291.79
	MW-76	1700376.23	167193.13	491.71	351.06	341.56	133.81	357.90
	MW-81	1702568.87	172113.99	493.66	309.19	300.19	183.30	310.36
	MW-82	1699553.72	167725.31	474.85	348.88	339.38	121.31	353.54
	MW-83	1697939.89	167212.27	496.81	350.19	340.69	143.61	353.20
	MW-84	1698602.89	173894.54	530.80	292.46	282.96	235.55	295.25
	MW-85	1701828.95	173694.52	531.76	282.56	273.06	245.20	286.56
	MW-86	1701331.25	174917.90	536.04	283.43	274.63	249.10	286.94
	MW-87	1700670.27	173493.76	537.31	283.68	274.38	247.51	289.80
	MW-88	1701807.87	174303.06	513.68	281.52	272.22	226.57	287.11
MW-93	1702259.35	169851.24	632.15	319.87	310.07	307.77	324.38	
MW-94	1698674.21	167210.22	495.51	357.22	348.52	139.65	355.86	
MW-95	1697265.32	169426.92	571.54	314.60	305.90	250.74	320.80	
MW-100	1700791.72	169610.46	620.32	319.06	309.06	297.21	323.11	
MW-106	1702536.99	173461.69	475.47	280.04	270.04	189.45	286.02	
Wells with water levels greater than 10 feet above the top of screen	MW-21	1697901.86	173876.38	420.66	263.22	255.22	124.61	296.05
	MW-22P	1701844.34	173088.17	517.09	236.02	231.22	231.59	285.50
	MW-24	1699582.39	167767.76	475.99	286.76	281.76	144.24	331.75
	MW-43	1701274.23	174327.14	547.06	245.63	235.63	264.63	282.43
	MW-54	1702154.28	168435.53	580.43	250.25	228.25	277.78	302.65
	MW-56	1698980.77	167214.82	480.33	323.15	313.15	124.56	355.77
	MW-57	1699993.32	167201.99	456.64	326.65	311.65	99.55	357.09
	MW-58A	1699006.59	167207.16	479.27	270.05	260.05	148.15	331.12
	MW-59	1699983.91	167193.44	457.13	285.08	275.08	122.70	334.43
	MW-65	1701602.10	167146.55	545.83	317.71	308.91	208.29	337.54
	MW-75	1701059.70	173432.42	532.40	271.10	261.00	244.73	287.67
	MW-80	1701309.78	172964.99	530.41	279.17	269.67	238.33	292.08
	MW-89	1701799.57	174319.44	512.82	229.20	219.90	231.30	281.52
	MW-90	1702203.13	174300.67	502.22	235.16	226.16	220.59	281.63
	MW-91	1701023.09	173423.94	532.02	260.81	240.71	245.98	286.04
	MW-99	1702556.06	172098.73	493.64	221.77	212.77	199.73	293.91
WS-NPW-1	1701906.96	171138.99	646.33	282.80	267.90	331.93	314.40	
WS-NPW-3	1701922.88	170663.28	645.81	285.00	273.90	330.14	315.67	

**Notes:**

MSL Mean sea level

Water level measurements made by KCSWD personnel.

Northing & Easting coordinates are Washington State Plane Grid System.

Elevations reported in feet above Mean Sea Level based on the National Geodetic Vertical Datum, 1929.

**Table A-2: Groundwater Parameters – Second Quarter 2019**

Cedar Hills Regional Landfill  
King County, Washington

Regional Aquifer Zone Beneath the Landfill	Horizontal Hydraulic Conductivity (K)			Horizontal Hydraulic Gradient (DH/DL)	Effective Porosity (n <sub>eff</sub> )	Horizontal Groundwater Velocity (v)	General Groundwater Flow Direction
	Range	(cm/s)	(ft/d)	(ft/ft)		(ft/d)	
Northern	Minimum	2.10E-03	6	0.007	24%	0.184	NNE, NE
	Maximum	4.20E-02	120	0.007	24%	3.67	
	Mean	2.10E-02	60	0.007	24%	1.84	
Central	Minimum	2.10E-03	6	0.009	24%	0.22	N, NNW
	Maximum	4.20E-02	120	0.009	24%	4.5	
	Mean	2.10E-02	60	0.009	24%	2.2	
Southern	Minimum	6.40E-06	0.018	0.015	26%	0.001	N, NNE, NNW
	Maximum	6.40E-04	1.8	0.015	26%	0.104	
	Mean	6.40E-05	0.18	0.015	26%	0.010	

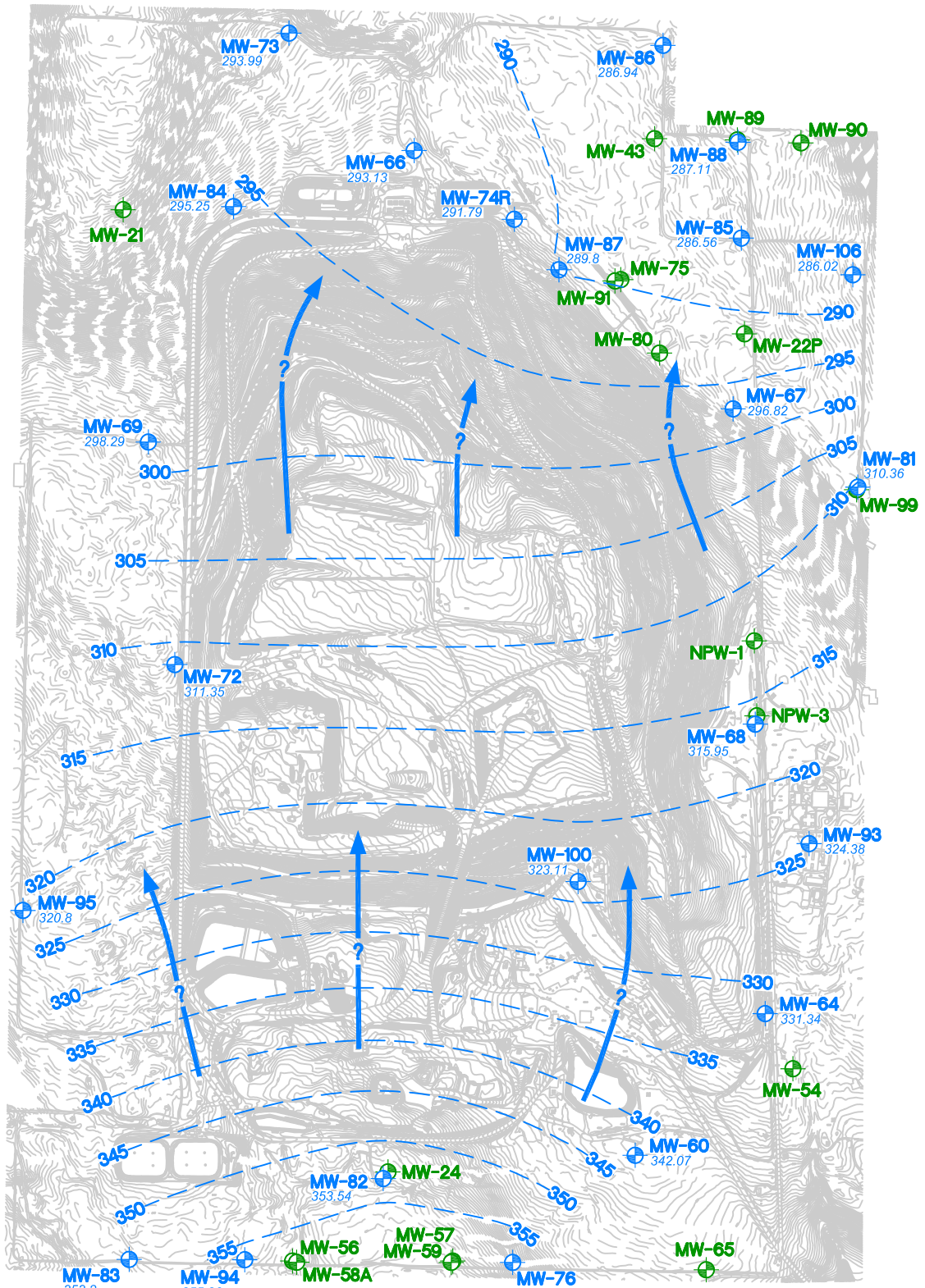
**Notes:**

Horizontal hydraulic conductivity values and effective porosity values from *Potentiometric Groundwater Surface Mapping and Groundwater Velocity Calculation – Cedar Hills Landfill (Aspect, 2010)*.

Hydraulic gradients measured from the potentiometric surface map shown on Figure A-1.

Mean hydraulic conductivity values are the geometric mean of the high and low values.

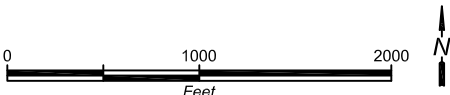
NNE, north-northeast; NNW, north-northwest; NE, northeast; N, north.



**Legend**

- MW-X** Well completed in Regional Aquifer with water levels within the screen or within 10 feet of the top of screen.
- MW-X** Wells completed in Regional Aquifer with water levels more than 10 feet above the top of screen.

- 300** Regional Aquifer Groundwater Elevation Contour (feet MSL).
- Inferred Horizontal Groundwater Flow Path



- Notes:
1. Groundwater measurements made on April 1, 2019.
  2. Only wells completed in the Regional Aquifer with well screen tops within 10 feet of the water table were used for contouring.

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**Groundwater Potentiometric Surface Map**  
**Second Quarter 2019 - Regional Aquifer**  
 Cedar Hills Regional Landfill  
 King County, Washington

DATE: June 2019	PROJECT NO. 1033379
DESIGNED BY: SB	FIGURE NO. <b>A-1</b>
DRAWN BY: KK	
REVISED BY: SB	

# **APPENDIX B**

## **Field and Analytical Test Results**





## Groundwater Field and Analytical Data



Environmental Monitoring Data

Data Collected from April 1, 2019 to June 30, 2019  
 Cedar Hills Landfill --- Groundwater Elevation Data  
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Reference Elevation (msl)	Depth to Water (feet)	Ground- Water Elevation (msl)	Comment
MW-100	4/1/2019	620.32	297.21	323.11	Decommissioned
MW-101	4/1/2019	474.72	31.71	443.01	
MW-102	4/1/2019	552.48	45.47	507.01	
MW-103	4/1/2019	639.08	12.45	626.63	New to this list
MW-104	4/1/2019	629.68	24.6	605.08	
MW-105	4/1/2019	521.23	19.47	501.76	
MW-106	4/1/2019	475.47	189.45	286.02	
MW-107	4/1/2019	589.029	29.7	559.329	Needs weep hole
MW-108	4/1/2019	612.258	14.96	597.298	Added lock; WH
MW-109	4/1/2019	638.728	8.64	630.088	Needs weep hole
MW-110	4/1/2019	641.742	5.54	636.203	Needs WH
MW-111	4/1/2019	643.797	8.98	634.817	Needs WH
MW-112	4/1/2019	638.929	12.68	626.249	Needs WH
MW-21	4/1/2019	420.66	124.61	296.05	
MW-22	4/1/2019	517.09	231.59	285.5	
MW-24	4/1/2019	475.99	144.24	331.75	
MW-25	4/1/2019	474.41	6.44	467.97	
MW-27A	4/1/2019	584.23	54.42	529.81	
MW-28	4/1/2019	527.75	24.31	503.44	
MW-29	4/1/2019	532.92	11.1	521.82	
MW-30A	4/1/2019	568.43	28.58	539.85	Water in annulus.
MW-41D	4/1/2019	462.32	26	436.32	
MW-41S	4/1/2019	462.44	5.27	457.17	
MW-43	4/1/2019	547.06	264.63	282.43	
MW-45	4/1/2019	488.4	14.38	474.02	
MW-47	4/1/2019	634.6	17.51	617.09	
MW-48	4/1/2019	594.49	45.44	549.05	Relabeled
MW-50	4/1/2019	637.02	29.6	607.42	Relabeled
MW-54	4/1/2019	580.43	277.78	302.65	
MW-55	4/1/2019	652.29	27.78	624.51	
MW-56	4/1/2019	480.33	124.56	355.77	
MW-57	4/1/2019	456.64	99.55	357.09	
MW-58A	4/1/2019	479.27	148.15	331.12	
MW-59	4/1/2019	457.13	122.7	334.43	
MW-60	4/1/2019	567.15	225.08	342.07	
MW-62	4/1/2019	556.21	51.09	505.12	
MW-63	4/1/2019	515.88	14.03	501.85	

Environmental Monitoring Data

Data Collected from April 1, 2019 to June 30, 2019  
 Cedar Hills Landfill --- Groundwater Elevation Data  
 Contact Person: Sendy Jimenez (206) 477-5224

Site	Date	Reference Elevation (msl)	Depth to Water (feet)	Ground- Water Elevation (msl)	Comment
MW-64	4/1/2019	596.55	265.21	331.34	Relabeled
MW-65	4/1/2019	545.83	208.29	337.54	
MW-66	4/1/2019	531.28	238.15	293.13	
MW-67	4/1/2019	516.43	219.61	296.82	
MW-68	4/1/2019	647.07	331.12	315.95	
MW-69	4/1/2019	653.69	355.4	298.29	
MW-72	4/1/2019	671.87	360.52	311.35	
MW-73	4/1/2019	485.7	191.71	293.99	
MW-74	4/1/2019	531.26	239.47	291.79	
MW-75	4/1/2019	532.4	244.73	287.67	
MW-76	4/1/2019	491.71	133.81	357.9	
MW-79	4/1/2019	459.17			Needs to be fixed
MW-80	4/1/2019	530.41	238.33	292.08	
MW-81	4/1/2019	493.66	183.3	310.36	
MW-82	4/1/2019	474.85	121.31	353.54	
MW-83	4/1/2019	496.81	143.61	353.2	
MW-84	4/1/2019	530.8	235.55	295.25	
MW-85	4/1/2019	531.76	245.2	286.56	Tree debris blocking access.
MW-86	4/1/2019	536.04	249.1	286.94	
MW-87	4/1/2019	537.31	247.51	289.8	
MW-88	4/1/2019	513.68	226.57	287.11	
MW-89	4/1/2019	512.82	231.3	281.52	
MW-90	4/1/2019	502.22	220.59	281.63	
MW-91	4/1/2019	532.02	245.98	286.04	From lower plug
MW-93	4/1/2019	632.15	307.77	324.38	
MW-94	4/1/2019	495.51	139.65	355.86	
MW-95	4/1/2019	571.54	250.74	320.80	
MW-98	4/1/2019	503.73	16.36	487.37	
MW-99	4/1/2019	493.64	199.73	293.91	

Environmental Monitoring Data

Data Collected from April 1, 2019 to June 30, 2019  
 Cedar Hills Landfill --- Groundwater Field Data  
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	pH (Field) (std. Units)	Conductance (Field) (umhos/cm)	Temperature (°C)	Purge Volume (gal)	Dissolved Oxygen (mg/L)	ORP mV	Turbidity NTU
MW-100	4/12/2019	W100190412-	6.79	303.6	10.6	6	0.52	-8.5	37.9
MW-101	5/28/2019	W101190528-	6.48	538.5	11.6	2.2			6.69
MW-102	5/15/2019	W102190515-	6.7	174.6	10.18	1	7.4	195.2	17.2
MW-103	5/17/2019	W103190517-	5.72	67.8	11.35	0.9	8.43	233.5	7.44
MW-104	5/17/2019	W104190517-	7.99	283.1	10.18	1.5	3.29	216.4	37.7
MW-107	5/13/2019	W107190513-	5.75	418	11.83	1.2	0.84	114.3	38
MW-108	5/16/2019	W108190516-	6.9	437.6	10.42	1.5	8.51	197.5	3.73
MW-109	5/20/2019	W109190520-	7.28	4988	10.6	1	1.3	-168.3	30.2
MW-110	5/16/2019	W110190516-	6.63	779	11.68	3	1.8	26.7	1.35
MW-111	5/20/2019	W111190520-	5.72	67.8	11.35	0.9	8.43	233.5	7.44
MW-112	5/13/2019	W112190513-	6.75	283.6	10.55	1.5	0.55	96.4	0.66
MW-21	4/8/2019	W21-190408-	7.35	142.9	9.11	1.8	0.88	-155.1	4.42
MW-24	4/8/2019	W24-190408-	6.85	184.4	9.51	4.5	0.34	-65.6	0.56
MW-30A	5/13/2019	W30A190513-	6.41	296.1	11.48	0.75	9.63	227.4	0.75
MW-47	5/13/2019	W47-190513-	6.88	1180	11.02	23.1			0.25
MW-50	5/20/2019	W50-190520-	7.66	319.5	11.55	0.75	1.84	212.8	3.89
MW-56	4/8/2019	W56-190408-	6.82	214.2	9.8	26.8			0.54
MW-59	4/10/2019	W59-190410-	6.42	195.7	9.49	3	1.17	-8.3	4.36
MW-62	5/28/2019	W62-190528-	6.49	145.6	12	0.75			0.96
MW-64	4/12/2019	W64-190412-	6.94	228.8	11.39	6	0.89	72.8	3.34
MW-65	4/12/2019	W65-190412-	6.93	144.7	9.1	3.6	0.99	-15.1	27
MW-66	4/10/2019	W66-190410-	6.92	214.1	9.51	3.4	4.93	141.8	0.62
MW-67	4/12/2019	W67-190412-	6.98	378.6	9.37	5.5	1.83	36.3	35.5
MW-68	4/15/2019	W68-190415-	6.9	282.9	10.11	3.25	0.7	-8.5	3.27
MW-68	5/14/2019	W68-190514-	7.15	284.7	10.18	5.25	0.37	-24.6	1.09
MW-69	4/15/2019	W69-190415-	7.47	327.1	9.69	5.5	0.58	-91.9	2.53
MW-72	4/16/2019	W72-190416-	7.08	364.1	10.09	6.5	0.62	-57.6	12.18
MW-73	4/10/2019	W73-190410-	6.96	137	9.07	1.9	9.51	193.38	1
MW-74R	4/18/2019	W74R190418-	7	551	10.28		4.32	94.8	2.94
MW-74R	4/18/2019	W74R190418D	7	551	10.28		4.32	94.8	2.94
MW-75	4/18/2019	W75-190418-	6.76	377.4	9.64	4	0.52	-47.7	0.26
MW-76	4/10/2019	W76-190410-	6.29	238.9	9.53	3	5.59	230.1	0.28
MW-80	5/14/2019	W80-190514-	6.97	316.3	9.8	5.8	0.46	-68.5	0.47
MW-81	4/16/2019	W81-190416-	7.11	162.6	9.68	3	5.48	239.8	1.59
MW-82	4/8/2019	W82-190408-	6.77	308.6	9.76	3	7.74	108.9	0.74

Environmental Monitoring Data

Data Collected from April 1, 2019 to June 30, 2019

Cedar Hills Landfill --- Groundwater Field Data

Contact Person: Sedy Jimenez (206) 477-5224

Site	Date	Sample ID	pH (Field)	Conductance (Field)	Temperature (° C)	Purge Volume (gal)	Dissolved Oxygen (mg/L)	ORP mV	Turbidity NTU
MW-82	5/22/2019	W82-190522-	6.65	309.3	9.83	2.75	8.38	139	0.61
MW-83	4/12/2019	W83-190412-	6.56	536	10.31	4.5	0.66	139.3	0.41
MW-84	4/10/2019	W84-190410-	6.89	199.6	9.56	3.5	1.32	193.8	0.26
MW-85	4/16/2019	W85-190416-	6.69	349.1	9.55	3	3.13	259.3	0.33
MW-86	4/12/2019	W86-190412-	6.84	196	8.98	4.5	0.97	78.9	26.6
MW-87	4/18/2019	W87-190418-	6.8	540	10.8	3.75	0.46	-41.2	2.11
MW-88	4/18/2019	W88-190418-	6.5	127.2	9.17	3.3	4.89	168.8	0.2

Environmental Monitoring Data

Data Collected from April 1, 2019 to June 30, 2019  
 Cedar Hills Landfill --- Groundwater Conventional Data  
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	Alkalinity, Total (CaCO <sub>3</sub> ) (mg/L)	Ammonia, (NH <sub>3</sub> ) (mg/L)	Chloride (mg/L)	Nitrate- Nitrogen, (NO <sub>3</sub> as N) (mg/L)	Specific Conductance (umhos/cm)	Sulfate (SO <sub>4</sub> ) (mg/L)	Total Dissolved Solids (mg/L)	Total Organic Carbon (mg/L)	Total Solids (mg/L)	Suspended Solids (mg/L)
MW-100	W100190412-	4/12/2019	131	0.0103	3.63	0.01 U	303	17.8	168	0.5 U	183	8.6
MW-101	W101190528-	5/28/2019	278	0.0155	2.78	0.013 T	504	4.18	293	4.22	313	7.7
MW-102	W102190515-	5/15/2019	66.1	0.002 U	3.48	1.26	172	8.61	128	0.8 T	137	8.2
MW-103	W103190517-	5/17/2019	127	0.002 U	6.23	0.027 T	279	9.13	186	1.36	210	13.7
MW-104	W104190517-	5/17/2019	75.3	0.002 U	1.72	0.024 T	432	118	309	0.73 T	336	23.5
MW-107	W107190513-	5/13/2019	170	1.38	19.8	0.01 T	417	11.8	250	5.94	262	21.7
MW-108	W108190516-	5/16/2019	170	0.002 U	1.2	0.896	430	45.7	294	1.16	298	2.5
MW-109	W109190520-	5/20/2019	3710	0.311	4.5 T	0.05 U	5730	23.3	4460	150 S	4480	1.4 T
MW-110	W110190516-	5/16/2019	415	0.0286	2.03	0.01 U	763	12.6	467	3.63	476	1.5
MW-111	W111190520-	5/20/2019	20	0.002 U	0.743	0.487	69.5	6.51	69.9	1.44	80.9	7.2
MW-112	W112190513-	5/13/2019	111	0.0293	4.17	0.038 T	289	27.5	199	0.78 T	198 H	0.5 U
MW-21	W21-190408-	4/8/2019	59.1	0.0176	2.4	0.01 U	140	6.55	87.6	0.5 U	92.3	1.7
MW-24	W24-190408-	4/8/2019	65	0.0314	5.23	0.01 U	178	12.8	112	0.59 T	118	1.5
MW-30A	W30A190513-	5/13/2019	75.3	0.002 U	1.01	15.9	293	6.14	221	0.72 T	216	1 T
MW-47	W47-190513-	5/13/2019	640	0.0437	5.64	0.01 U	1140	6.7	688	3.53	714	5.33
MW-50	W50-190520-	5/20/2019	157	0.002 U	1.93	0.096	313	8.39	193	1.44	200	0.81 T
MW-56	W56-190408-	4/8/2019	73.2	0.002 U	17.1	0.624	223	7.18	136	1.07	141	0.53 U
MW-59	W59-190410-	4/10/2019	66.7	0.0049 T	8.3	0.02 T	194	14.5	114	0.57 T	127	2
MW-62	W62-190528-	5/28/2019	44.2	0.002 U	3.32	2.61	148	11.6	103	0.72 T	105	0.52 U
MW-64	W64-190412-	4/12/2019	100	0.0238	2.68	0.01 T	229	11.8	127	0.56 T	130	1.9
MW-65	W65-190412-	4/12/2019	52.4	0.0044 T	3.75	0.01 U	140	9.62	89.2	0.64 T	104	9.2
MW-66	W66-190410-	4/10/2019	86.2	0.002 U	4.45	0.434	217	13.2	129	0.5 U	133	0.8 T
MW-67	W67-190412-	4/12/2019	163	0.0072 T	5.05	0.087	384	30.3	220	0.64 T	255	13
MW-68	W68-190415-	4/15/2019	125	0.0182	2.88	0.01 U	278	15.1	165	0.5 U	165	1.09
MW-68	W68-190514-	5/14/2019	125	0.0189	2.9	0.01 U	280	15.6	167	0.5 U	168	0.8 T
MW-69	W69-190415-	4/15/2019	137	0.0167	3.71	0.01 U	319	23.1	189	0.55 T	198	3.92
MW-72	W72-190416-	4/16/2019	130	0.0172	6.58	0.01 U	352	41.1	214	0.6 T	226	5.73
MW-73	W73-190410-	4/10/2019	51.9	0.002 U	2.29	1.06	140	8.12	96.1	0.5 U	101	2.2
MW-74R	W74R190418-	4/18/2019	219	0.002 U	25	0.271	543	33.6	311	0.5 U	324	0.5 U
MW-74R	W74R190418D	4/18/2019	219	0.002 U	24.9	0.272	543	33.6	304	0.64 T	319	0.6 T
MW-75	W75-190418-	4/18/2019	110	0.0088 T	10.6	0.015 T	370	59.7	235	0.5 U	244	0.5 U
MW-76	W76-190410-	4/10/2019	67.8	0.002 U	16.2	0.961	241	17.7	146	2.55	157	0.5 U
MW-80	W80-190514-	5/14/2019	114	0.0112	4.51	0.01 U	306	35.3	195	0.5 U	200	1 U
MW-81	W81-190416-	4/16/2019	54.9	0.002 U	5.25	1.5	161	9.96	108	0.5 U	116	3.1
MW-82	W82-190408-	4/8/2019	120	0.002 U	10.8	1.12	313	16.2	186	0.86 T	193	1.2

Environmental Monitoring Data

Data Collected from April 1, 2019 to June 30, 2019  
 Cedar Hills Landfill --- Groundwater Conventional Data  
 Contact Person: Sedy Jimenez (206) 477-5224

Site	Date	Sample ID	Alkalinity, Total (CaCO <sub>3</sub> ) (mg/L)	Ammonia, (NH <sub>3</sub> ) (mg/L)	Chloride (mg/L)	Nitrate- Nitrogen, (NO <sub>3</sub> as N) (mg/L)	Specific Conductance (umhos/cm)	Sulfate (SO <sub>4</sub> ) (mg/L)	Total Dissolved Solids (mg/L)	Total Organic Carbon (mg/L)	Total Solids (mg/L)	Suspended Solids (mg/L)
MW-82	W82-190522-	5/22/2019	128	0.002 U	9.82	0.907	314	16.9	200	0.82 T	203	1 U
MW-83	W83-190412-	4/12/2019	174	0.0023 T	54.8	1.04	546	9.74	328	4.12	360	0.5 U
MW-84	W84-190410-	4/10/2019	77.2	0.002 U	4.01	0.143	203	15.5	120	0.53 T	123	0.5 U
MW-85	W85-190416-	4/16/2019	134	0.002 U	11.1	0.105	359	33.7	213	0.5 U	221	0.5 U
MW-86	W86-190412-	4/12/2019	68.9	0.002 U	4.66	0.017 T	198	18.2	118	0.5 U	128	6.1
MW-87	W87-190418-	4/18/2019	107	0.0177	13.3	0.01 U	527	135	374	0.5 U	384	0.9 T
MW-88	W88-190418-	4/18/2019	51.6	0.002 U	1.81	0.656	128	6.43	88.2	0.5 U	89.1	0.5 U



Environmental Monitoring Data

Data Collected from April 1, 2019 to June 30, 2019  
 Cedar Hills Landfill --- Groundwater Metals Data  
 Contact Person: Sedy Jimenez (206) 477-5224

Site	Date	Sample ID	Antimony, dissolved (mg/L)	Antimony, total (mg/L)	Arsenic, dissolved (mg/L)	Arsenic, total (mg/L)	Barium, dissolved (mg/L)	Barium, total (mg/L)	Beryllium, dissolved (mg/L)	Beryllium, total (mg/L)	Cadmium, dissolved (mg/L)	Cadmium, total (mg/L)
MW-100	W100190412-	4/12/2019	0.0003 U	0.0003 U	0.00112	0.00447	0.00619	0.00704	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-101	W101190528-	5/28/2019	0.0003 U	0.0003 U	0.0117	0.00961	0.0186	0.0187	0.0001 U	0.0001 U	5E-05 U	0.0000789
MW-102	W102190515-	5/15/2019	0.0003 U	0.0003 U	0.00019	0.000382	0.00568	0.011	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-103	W103190517-	5/17/2019	0.0003 U	0.0003 U	0.00399	0.00469	0.00914	0.0264	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-104	W104190517-	5/17/2019	0.00046	4.99E-04	0.00115	0.00147	0.0211	0.0228	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-107	W107190513-	5/13/2019	0.0003 U	0.0003 U	0.00149	0.00161	0.0185	0.0208	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-108	W108190516-	5/16/2019	0.0003 U	0.0003 U	1.87E-03	0.00216	0.0176	0.0202	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-109	W109190520-	5/20/2019	0.0015 DU	0.0015 DU	0.0634 D	0.0637 D	0.131 D	0.15 D	0.000839 D	0.000941 D	0.00025 DU	0.00025 DU
MW-110	W110190516-	5/16/2019	0.0003 U	0.0003 U	0.0016	0.00164	0.0324	0.0327	0.0001 U	0.0001 U	0.0000827	0.0000877
MW-111	W111190520-	5/20/2019	0.0003 U	0.0003 U	0.000723	0.00104	0.00334	0.00671	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-112	W112190513-	5/13/2019	0.0003 U	0.0003 U	0.00296	0.00299	0.00958	0.00947	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-21	W21-190408-	4/8/2019	0.0003 U	0.0003 U	0.000947	0.000988	0.00497	0.00468	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-24	W24-190408-	4/8/2019	0.0003 U	0.0003 U	0.000606	0.000606	0.00208	0.00203	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-30A	W30A190513-	5/13/2019	0.0003 U	0.0003 U	0.000424	0.000475	0.00407	0.00426	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-47	W47-190513-	5/13/2019	0.0003 U	0.0003 U	0.00226	0.00235	0.041	0.0413	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-50	W50-190520-	5/20/2019	0.000407	0.000432	0.00495	0.00496	0.0105	0.0108	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-56	W56-190408-	4/8/2019	0.0003 U	0.0003 U	0.0000852	0.0000772	0.00456	0.0045	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-59	W59-190410-	4/10/2019	0.0003 U	0.0003 U	0.000392	0.000466	0.00388	0.00408	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-62	W62-190528-	5/28/2019	0.0003 HU	0.0003 U	0.000172 H	0.000195	0.00151 H	0.00164	0.0001 HU	0.0001 U	5E-05 HU	5E-05 U
MW-64	W64-190412-	4/12/2019	0.0003 U	0.0003 U	0.000646	0.00122	0.00755	0.0118	0.0001 U	0.0001 U	5E-05 U	0.000103
MW-65	W65-190412-	4/12/2019	0.0003 U	0.0003 U	0.000382	0.00129	0.00595	0.00655	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-66	W66-190410-	4/10/2019	0.0003 U	0.0003 U	0.000654	0.000643	0.00442	0.00449	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-67	W67-190412-	4/12/2019	0.0003 U	0.0003 U	0.0003	0.0045	0.0127	0.0196	0.0001 U	0.0001 U	5E-05 U	0.0000554
MW-68	W68-190415-	4/15/2019	0.0003 U	0.0003 U	0.0106	0.0208	0.0104	0.0111	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-68	W68-190514-	5/14/2019	0.0003 U	0.0003 U	0.0106	0.0177	0.0108	0.0108	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-69	W69-190415-	4/15/2019	0.0003 U	0.0003 U	0.00204	0.00269	0.0119	0.0124	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-72	W72-190416-	4/16/2019	0.0003 U	0.0003 U	0.0000675	0.0000966	0.0119	0.013	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-73	W73-190410-	4/10/2019	0.0003 U	0.0003 U	0.000691	0.000681	0.00239	0.00271	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-74R	W74R190418-	4/18/2019	0.0003 U	0.0003 U	0.000383	0.000754	0.0125	0.0127	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-74R	W74R190418D	4/18/2019	0.0003 U	0.0003 U	0.00038	0.000752	0.0123	0.0129	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-75	W75-190418-	4/18/2019	0.0003 U	0.0003 U	0.000461	0.000451	0.012	0.0125	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-76	W76-190410-	4/10/2019	0.0003 U	0.0003 U	0.000213	0.000193	0.00364	0.00354	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-80	W80-190514-	5/14/2019	0.0003 U	0.0003 U	0.00361	0.00366	0.0142	0.0139	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-81	W81-190416-	4/16/2019	0.0003 U	0.0003 U	0.000497	0.000554	0.00315	0.00351	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-82	W82-190408-	4/8/2019	0.0003 U	0.0003 U	0.000235	0.000241	0.00118	0.00124	0.0001 U	0.0001 U	5E-05 U	5E-05 U

Environmental Monitoring Data

Data Collected from April 1, 2019 to June 30, 2019

Cedar Hills Landfill --- Groundwater Metals Data

Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	Antimony,	Antimony,	Arsenic,	Arsenic,	Barium,	Barium,	Beryllium,	Beryllium,	Cadmium,	Cadmium,
			dissolved	total	dissolved	total	dissolved	total	dissolved	total	dissolved	total
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
MW-82	W82-190522-	5/22/2019	0.0003 U	0.0003 U	0.000222	0.000223	0.0011	0.00119	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-83	W83-190412-	4/12/2019	0.0003 U	0.0003 U	0.000309	0.000306	0.00679	0.0071	0.0001 U	0.0001 U	0.000121	5E-05 U
MW-84	W84-190410-	4/10/2019	0.0003 U	0.0003 U	0.000333	0.00032	0.0047	0.00482	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-85	W85-190416-	4/16/2019	0.0003 U	0.0003 U	0.000694	0.000704	0.00658	0.00677	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-86	W86-190412-	4/12/2019	0.0003 U	0.0003 U	0.000699	0.00377	0.00556	0.00587	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-87	W87-190418-	4/18/2019	0.0003 U	0.0003 U	0.000398	0.000907	0.0238	0.0258	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-88	W88-190418-	4/18/2019	0.0003 U	0.0003 U	0.000966	0.000963	0.00229	0.00223	0.0001 U	0.0001 U	5E-05 U	5E-05 U

Environmental Monitoring Data

Data Collected from April 1, 2019 to June 30, 2019  
 Cedar Hills Landfill --- Groundwater Metals Data  
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	Calcium, dissolved (mg/L)	Calcium, total (mg/L)	Chromium, dissolved (mg/L)	Chromium total (mg/L)	Cobalt, dissolved (mg/L)	Cobalt, total (mg/L)	Copper, dissolved (mg/L)	Copper, total (mg/L)	Iron, dissolved (mg/L)	Iron, total (mg/L)
MW-100	W100190412-	4/12/2019	27.9	27.5	0.0002 U	0.000211	0.000212	2.35E-04	0.0002 U	0.00026	1.39	4.56
MW-101	W101190528-	5/28/2019	52.5	51.1	0.0002 U	0.000352	0.000254	0.00026	0.0002 U	0.000487	0.876	1.06
MW-102	W102190515-	5/15/2019	15.8	16.4	0.0002 U	0.00196	5E-05 U	0.000469	0.000447	0.00187	0.01 U	0.849
MW-103	W103190517-	5/17/2019	25.9	25.6	0.0002 U	0.0017	5E-05 U	0.000616	0.000312	0.00216	0.01 U	0.899
MW-104	W104190517-	5/17/2019	41.4	42.3	0.000836	1.73E-03	5E-05 U	0.000154	0.000548	0.00103	0.0182	0.268
MW-107	W107190513-	5/13/2019	43	43.2	0.000462	0.000958	0.00352	0.0036	0.00222	0.00324	1.31	1.62
MW-108	W108190516-	5/16/2019	35.5	38	0.000454	0.000896	5E-05 U	0.000101	0.000855	0.000886	0.01 U	0.16
MW-109	W109190520-	5/20/2019	23.4 D	24.5 D	0.13 D	0.133 D	0.0018 D	0.00267 D	0.00783 D	0.0283 D	11.8 D	14.6 D
MW-110	W110190516-	5/16/2019	75	74.3	0.000283	6.12E-04	0.00335	0.00339	0.000426	0.000913	0.145	0.213
MW-111	W111190520-	5/20/2019	6	6.37	0.00131	0.0021	5E-05 U	0.000197	0.000213	0.001	0.01 U	0.59
MW-112	W112190513-	5/13/2019	27.2	25.9	0.000546	0.000281 J	0.0000577	0.0000542	0.000219	0.000246	0.0115	0.01 U
MW-21	W21-190408-	4/8/2019	12.1	12.2	0.0002 U	0.0002 U	5E-05 U	5E-05 U	0.0002 U	0.0002 U	2.03	2.52
MW-24	W24-190408-	4/8/2019	14.4	14.8	0.0002 U	0.0002 U	5E-05 U	5E-05 U	0.0002 U	0.0002 U	3.08	3.19
MW-30A	W30A190513-	5/13/2019	23.2	23.4	0.000715	0.000765	5E-05 U	5E-05 U	0.0002 U	0.000346	0.01 U	0.0441
MW-47	W47-190513-	5/13/2019	142	141	0.0002 U	0.0002 U	0.000387	0.000377	0.0002 U	0.000345	4.24	4.12
MW-50	W50-190520-	5/20/2019	30.1	29.7	0.000607	0.000542	5E-05 U	1.18E-04	0.000983	0.00129	0.01 U	0.11
MW-56	W56-190408-	4/8/2019	20.5	20.8	0.0002 U	0.0002 U	1.11E-04	1.06E-04	0.000812	0.0002 U	0.0852	0.097
MW-59	W59-190410-	4/10/2019	16.2	15.7	0.0002 U	0.000236	5E-05 U	5E-05 U	0.0002 U	0.000452	3.86	4.28
MW-62	W62-190528-	5/28/2019	12.9 H	13.1	0.000262 BH	7.35E-04	0.000118 H	0.000127	0.000269 H	0.000298	0.0132 H	0.0332
MW-64	W64-190412-	4/12/2019	18.6	18.1	0.0002 U	0.000269	0.0000828	0.000894	0.0002 U	0.000401	0.0522	0.308
MW-65	W65-190412-	4/12/2019	11.4	11.2	0.0002 U	0.0002 U	5E-05 U	5E-05 U	0.0002 U	0.0002 U	3.29	6.11
MW-66	W66-190410-	4/10/2019	16.5	16.3	0.0002 U	0.000215	5E-05 U	5E-05 U	0.0002 U	0.0002 U	0.01 U	0.0471
MW-67	W67-190412-	4/12/2019	36	35.2	0.0002 U	0.0002 U	0.000153	0.000679	0.000769	0.000797	0.197	4.8
MW-68	W68-190415-	4/15/2019	26.6	26.8	0.0002 U	0.0002 U	2.10E-04	0.000217	0.0002 U	0.000447	0.551	0.778
MW-68	W68-190514-	5/14/2019	27.2	27.4	0.0002 U	0.0002 U	0.000222	0.00023	0.0002 U	0.000241	0.564	0.694
MW-69	W69-190415-	4/15/2019	33.9	33.3	0.0002 U	2.13E-04	5E-05 U	0.0000667	0.0002 U	0.000261	0.961	1.37
MW-72	W72-190416-	4/16/2019	33.5	33.3	0.0002 U	0.000304	5E-05 U	5E-05 U	0.0002 U	0.00021	2.66	3.73
MW-73	W73-190410-	4/10/2019	12.2	12.1	0.000202	0.000281	5E-05 U	5E-05 U	0.0002 U	0.000216	0.01 U	0.0401
MW-74R	W74R190418-	4/18/2019	47.4	47.2	0.0002 U	0.0002 U	5E-05 U	5E-05 U	0.0002 U	0.000321	0.01 U	0.285
MW-74R	W74R190418D	4/18/2019	48.3	47.6	0.0002 U	0.0002 U	5E-05 U	5E-05 U	0.0002 U	0.000347	0.01 U	0.28
MW-75	W75-190418-	4/18/2019	31	31.2	0.0002 U	0.0002 U	5E-05 U	5E-05 U	0.0002 U	0.0002 U	2.23	2.37
MW-76	W76-190410-	4/10/2019	21.4	20.7	0.00117	1.13E-03	7.27E-05	0.0000693	0.00149	0.00146	0.01 U	0.01 U
MW-80	W80-190514-	5/14/2019	30.8	31	0.0002 U	0.00025	5E-05 U	5E-05 U	0.0002 U	0.0002 U	2.18	2.2
MW-81	W81-190416-	4/16/2019	13.9	14	0.0002 U	0.000245	5E-05 U	5E-05 U	0.0002 U	0.000285	0.01 U	0.1
MW-82	W82-190408-	4/8/2019	28.5	29	0.0002 U	0.000687	5E-05 U	5E-05 U	0.0002 U	0.0002 U	0.01 U	0.0262

Environmental Monitoring Data

Data Collected from April 1, 2019 to June 30, 2019  
 Cedar Hills Landfill --- Groundwater Metals Data  
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	Calcium,	Calcium,	Chromium,	Chromium	Cobalt,	Cobalt,	Copper,	Copper,	Iron,	Iron,
			dissolved	total	dissolved	total	dissolved	total	dissolved	total	dissolved	total
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
MW-82	W82-190522-	5/22/2019	28.9	28.9	0.0002 U	0.000569	5E-05 U	5E-05 U	0.0002 U	0.0002 U	0.01 U	0.0145
MW-83	W83-190412-	4/12/2019	55.7	55.8	0.0002 U	0.0002 U	0.000109	0.000148	0.00218	0.00252	0.01 U	0.01 U
MW-84	W84-190410-	4/10/2019	15.7	15.5	0.0002 U	0.0002 U	5E-05 U	5E-05 U	0.0002 U	0.0002 U	0.01 U	0.01 U
MW-85	W85-190416-	4/16/2019	33.2	33.2	0.0002 U	0.0002 U	5E-05 U	5E-05 U	0.0002 U	0.000277	0.01 U	0.0294
MW-86	W86-190412-	4/12/2019	15.7	15.1	0.0002 U	0.0002 U	0.0000692	0.0000953	0.0002 U	0.0002 U	0.694	2.65
MW-87	W87-190418-	4/18/2019	46.1	48	0.0002 U	0.0002 U	0.000114	0.000124	0.0002 U	0.0002 U	4.23	5.21
MW-88	W88-190418-	4/18/2019	9.66	9.63	0.000595	0.000648	5E-05 U	5E-05 U	0.0002 U	0.0002 U	0.01 U	0.01 U

Environmental Monitoring Data

Data Collected from April 1, 2019 to June 30, 2019  
 Cedar Hills Landfill --- Groundwater Metals Data  
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	Lead,	Lead,	Magnesium,	Magnesium,	Manganese,	Manganese,	Mercury,	Mercury,	Nickel,	Nickel,
			dissolved	total	dissolved	total	dissolved	total	dissolved	total	dissolved	total
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
MW-100	W100190412-	4/12/2019	0.0001 U	0.0001 U	16.6	16.3	0.152	0.156	5E-05 U	5E-05 U	0.00047	0.000561
MW-101	W101190528-	5/28/2019	0.0001 U	0.0001 U	31.4	30.2	1.14	1.02	5E-05 U	5E-05 U	0.00331	0.00351
MW-102	W102190515-	5/15/2019	0.0001 U	0.000445	6.16	6.51	0.000745	0.0146	5E-05 U	5E-05 U	0.000578	0.00135
MW-103	W103190517-	5/17/2019	0.0001 U	0.000759	12.3	11.9	0.00139	0.773	5E-05 U	5E-05 U	0.000201	0.00206
MW-104	W104190517-	5/17/2019	0.0001 U	0.000141	17.4	17.7	0.00378	0.0175	5E-05 U	5E-05 U	0.000311	0.000935
MW-107	W107190513-	5/13/2019	0.0001 U	0.000172	13.7	13.5	4.7	4.52	5E-05 U	5E-05 U	0.00745	0.00818
MW-108	W108190516-	5/16/2019	0.0001 U	0.0001 U	11.6	12.3	0.00633	0.0074	5E-05 U	5E-05 U	0.000497	0.000799
MW-109	W109190520-	5/20/2019	0.0005 DU	0.00164 D	17.7 D	18.1 D	0.884 D	0.96 D	5E-05 U	5E-05 U	0.0141 D	0.0183 D
MW-110	W110190516-	5/16/2019	0.0001 U	0.000137	38.8	38.1	3.22	3.18	5E-05 U	5E-05 U	0.00667	0.00667
MW-111	W111190520-	5/20/2019	0.0001 U	0.000211	1.87	2.04	0.00398	0.00953	5E-05 U	5E-05 U	0.00167	0.00262
MW-112	W112190513-	5/13/2019	0.0001 U	0.0001 U	13.3	12.3	0.218	0.204	5E-05 U	5E-05 U	0.000566	0.000461
MW-21	W21-190408-	4/8/2019	0.0001 U	0.0001 U	6.71	6.64	0.105	0.117	5E-05 U	5E-05 U	0.0001 U	0.000123
MW-24	W24-190408-	4/8/2019	0.0001 U	0.0001 U	9.5	9.4	0.0995	0.103	5E-05 U	5E-05 U	0.000126	0.0001 U
MW-30A	W30A190513-	5/13/2019	0.0001 U	0.0001 U	12.9	13	0.000135	0.000721	5E-05 U	5E-05 U	0.000763	0.000837
MW-47	W47-190513-	5/13/2019	0.0001 U	0.0001 U	73	68.8	1.66	1.55	5E-05 U	5E-05 U	0.00239	0.00242
MW-50	W50-190520-	5/20/2019	0.0001 U	0.0001 U	13.6	13.5	0.000951	0.0128	5E-05 U	5E-05 U	0.000568	0.000715
MW-56	W56-190408-	4/8/2019	0.0001 U	0.0001 U	10.9	10.6	0.169	0.169	5E-05 U	5E-05 U	0.000484	0.000496
MW-59	W59-190410-	4/10/2019	0.0001 U	0.0001 U	10.2	9.77	0.113	0.121	5E-05 U	5E-05 U	0.000143	0.000214
MW-62	W62-190528-	5/28/2019	0.0001 HU	0.0001 U	3.45 H	3.61	0.00288 H	0.00304	5E-05 U	5E-05 U	0.000952 H	0.00116
MW-64	W64-190412-	4/12/2019	0.0001 U	0.0001 U	14.2	13.7	0.0968	0.819	5E-05 U	5E-05 U	0.000524	0.00409
MW-65	W65-190412-	4/12/2019	0.0001 U	0.0001 U	7.05	6.84	0.163	0.259	5E-05 U	5E-05 U	0.000126	0.000159
MW-66	W66-190410-	4/10/2019	0.0001 U	0.0001 U	13.4	13.3	0.0001 U	0.00136	5E-05 U	5E-05 U	0.000151	0.000187
MW-67	W67-190412-	4/12/2019	0.0001 U	0.0001 U	21.9	21.6	0.212	1.08	5E-05 U	5E-05 U	0.000341	0.00111
MW-68	W68-190415-	4/15/2019	0.0001 U	0.0001 U	14.6	14.7	0.298	0.298	5E-05 U	5E-05 U	0.000424	0.000456
MW-68	W68-190514-	5/14/2019	0.0001 U	0.0001 U	15	15.4	0.303	0.306	5E-05 U	5E-05 U	0.000511	0.000555
MW-69	W69-190415-	4/15/2019	0.0001 U	0.0001 U	15.9	16.2	0.264	0.279	5E-05 U	5E-05 U	0.000115	0.000229
MW-72	W72-190416-	4/16/2019	0.0001 U	0.0001 U	20.3	20.6	0.37	0.378	5E-05 U	5E-05 U	0.000154	0.000172
MW-73	W73-190410-	4/10/2019	0.0001 U	0.0001 U	6.48	6.28	0.0001 U	0.00119	5E-05 U	5E-05 U	0.000248	0.000294
MW-74R	W74R190418-	4/18/2019	0.0001 U	0.0001 U	35.6	36.1	0.000145	0.00625	5E-05 U	5E-05 U	0.000848	0.000953
MW-74R	W74R190418D	4/18/2019	0.0001 U	0.0001 U	37.3	35.9	0.000153	0.00675	5E-05 U	5E-05 U	0.000826	0.00096
MW-75	W75-190418-	4/18/2019	0.0001 U	0.0001 U	22.9	23.1	0.2	0.194	5E-05 U	5E-05 U	0.0001 U	0.0001 U
MW-76	W76-190410-	4/10/2019	0.0001 U	0.0001 U	10	9.63	0.0001 U	0.0001 U	5E-05 U	5E-05 U	0.00048	0.000467
MW-80	W80-190514-	5/14/2019	0.0001 U	0.0001 U	16.3	16.4	0.334	0.337	5E-05 U	5E-05 U	0.00011	0.000135
MW-81	W81-190416-	4/16/2019	0.0001 U	0.0001 U	7.65	7.75	0.0001 U	0.00248	5E-05 U	5E-05 U	0.000102	0.000195
MW-82	W82-190408-	4/8/2019	0.0001 U	0.0001 U	17.6	17.2	0.0001 U	0.000306	5E-05 U	5E-05 U	0.000256	0.000881

Environmental Monitoring Data

Data Collected from April 1, 2019 to June 30, 2019  
 Cedar Hills Landfill --- Groundwater Metals Data  
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	Lead,	Lead,	Magnesium,	Magnesium,	Manganese,	Manganese,	Mercury,	Mercury,	Nickel,	Nickel,
			dissolved	total	dissolved	total	dissolved	total	dissolved	total	dissolved	total
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
MW-82	W82-190522-	5/22/2019	0.0001 U	0.0001 U	17.5	17.3	0.0001 U	0.000213 J	5E-05 U	5E-05 U	0.000368	0.000953
MW-83	W83-190412-	4/12/2019	0.0001 U	0.0001 U	25.6	25.2	0.101	0.33	5E-05 U	5E-05 U	0.00189	0.00294
MW-84	W84-190410-	4/10/2019	0.0001 U	0.0001 U	12	12	0.00079	0.000883	5E-05 U	5E-05 U	0.000313	0.000289
MW-85	W85-190416-	4/16/2019	0.0001 U	0.0001 U	20.4	20.7	0.0001 U	0.000507	5E-05 U	5E-05 U	0.000184	0.000227
MW-86	W86-190412-	4/12/2019	0.0001 U	0.0001 U	11.3	10.6	0.0194	0.0235	5E-05 U	5E-05 U	0.000114	0.000129
MW-87	W87-190418-	4/18/2019	0.0001 U	0.0001 U	31.2	32.3	0.528	0.548	5E-05 U	5E-05 U	0.000113	0.000117
MW-88	W88-190418-	4/18/2019	0.0001 U	0.0001 U	7.13	7.1	0.000175 J	0.000909	5E-05 U	5E-05 U	0.0001 U	0.000101

Environmental Monitoring Data

Data Collected from April 1, 2019 to June 30, 2019  
 Cedar Hills Landfill --- Groundwater Metals Data  
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	Potassium,	Potassium,	Selenium,	Selenium,	Silver,	Silver,	Sodium,	Sodium,	Thallium,	Thallium,
			dissolved	total	dissolved	total	dissolved	total	dissolved	total	dissolved	total
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
MW-100	W100190412-	4/12/2019	1.79	1.78	0.0005 U	0.0005 U	4E-05 U	4E-05 U	9.34	9.09	0.0001 U	0.0001 U
MW-101	W101190528-	5/28/2019	2.6	2.65	0.0005 U	0.0005 U	4E-05 U	4E-05 U	16.3	17.3	0.0001 U	0.0001 U
MW-102	W102190515-	5/15/2019	1.07	1.28	0.0005 U	0.0005 U	4E-05 U	4E-05 U	10.3	10.9	0.0001 U	0.0001 U
MW-103	W103190517-	5/17/2019	2.79	2.8	0.0005 U	0.0005 U	4E-05 U	4E-05 U	16.8	16.3	0.0001 U	0.0001 U
MW-104	W104190517-	5/17/2019	4.02	4.1	0.0005 U	0.000525	4E-05 U	4E-05 U	22	20.3	0.0001 U	0.0001 U
MW-107	W107190513-	5/13/2019	3.6	3.69	0.0005 U	0.0005 U	4E-05 U	4E-05 U	18.2	18.1	0.0001 U	0.0001 U
MW-108	W108190516-	5/16/2019	1.74	1.91	0.0005 U	0.0005 U	4E-05 U	4E-05 U	41.1	47.2	0.0001 U	0.0001 U
MW-109	W109190520-	5/20/2019	3.51 D	3.59 D	0.00271 D	0.00322 D	0.0002 DU	0.0002 DU	1550 D	1470 D	0.0005 DU	0.0005 DU
MW-110	W110190516-	5/16/2019	3.34	3.3	0.0005 U	0.0005 U	4E-05 U	4E-05 U	46.5	46.3	0.0001 U	0.0001 U
MW-111	W111190520-	5/20/2019	0.3	0.355	0.0005 U	0.0005 U	4E-05 U	4E-05 U	4.54	4.77	0.0001 U	0.0001 U
MW-112	W112190513-	5/13/2019	2.79	2.72	0.0005 U	0.0005 U	4E-05 U	4E-05 U	17.1	16.2	0.0001 U	0.0001 U
MW-21	W21-190408-	4/8/2019	1.11	1.07	0.0005 U	0.0005 U	4E-05 U	4E-05 U	5.99	5.88	0.0001 U	0.0001 U
MW-24	W24-190408-	4/8/2019	1.01	0.996	0.0005 U	0.0005 U	4E-05 U	4E-05 U	5.87	5.84	0.0001 U	0.0001 U
MW-30A	W30A190513-	5/13/2019	1.53	1.54	0.0005 U	0.0005 U	4E-05 U	4E-05 U	15.2	15.2	0.0001 U	0.0001 U
MW-47	W47-190513-	5/13/2019	5.24	5.11	0.0005 U	0.0005 U	4E-05 U	4E-05 U	19.9	18.9	0.0001 U	0.0001 U
MW-50	W50-190520-	5/20/2019	6.15	5.97	0.0005 U	0.0005 U	4E-05 U	4E-05 U	16.6	16.3	0.0001 U	0.0001 U
MW-56	W56-190408-	4/8/2019	1.23	1.2	0.0005 U	0.0005 U	4E-05 U	4E-05 U	6.16	6.05	0.0001 U	0.0001 U
MW-59	W59-190410-	4/10/2019	1.15	1.12	0.0005 U	0.0005 U	4E-05 U	4E-05 U	6.27	5.99	0.0001 U	0.0001 U
MW-62	W62-190528-	5/28/2019	0.744 H	0.766	0.0005 HU	0.0005 U	4E-05 HU	4E-05 U	9.22 H	10.5	0.0001 HU	0.0001 U
MW-64	W64-190412-	4/12/2019	1.73	1.69	0.0005 U	0.0005 U	4E-05 U	4E-05 U	7.94	7.68	0.0001 U	0.0001 U
MW-65	W65-190412-	4/12/2019	0.927	0.912	0.0005 U	0.0005 U	4E-05 U	4E-05 U	5.38	5.24	0.0001 U	0.0001 U
MW-66	W66-190410-	4/10/2019	1.17	1.15	0.000955	0.000944	4E-05 U	4E-05 U	7.64	7.33	0.0001 U	0.0001 U
MW-67	W67-190412-	4/12/2019	1.78	1.76	0.0005 U	0.0005 U	4E-05 U	4E-05 U	9.88	9.63	0.0001 U	0.0001 U
MW-68	W68-190415-	4/15/2019	1.66	1.67	0.0005 U	0.0005 U	4E-05 U	4E-05 U	8.69	8.72	0.0001 U	0.0001 U
MW-68	W68-190514-	5/14/2019	1.69	1.69	0.0005 U	0.0005 U	4E-05 U	4E-05 U	8.81	9.26	0.0001 U	0.0001 U
MW-69	W69-190415-	4/15/2019	1.78	1.79	0.0005 U	0.0005 U	4E-05 U	4E-05 U	8.67	8.57	0.0001 U	0.0001 U
MW-72	W72-190416-	4/16/2019	1.98	1.96	0.0005 U	0.0005 U	4E-05 U	4E-05 U	8.44	8.45	0.0001 U	0.0001 U
MW-73	W73-190410-	4/10/2019	0.819	0.809	0.0005 U	0.0005 U	4E-05 U	4E-05 U	5.97	5.75	0.0001 U	0.0001 U
MW-74R	W74R190418-	4/18/2019	2.17	2.15	0.000644	0.00064	4E-05 U	4E-05 U	12.8	12.8	0.0001 U	0.0001 U
MW-74R	W74R190418D	4/18/2019	2.23	2.16	0.000615	0.00064	4E-05 U	4E-05 U	13.2	12.7	0.0001 U	0.0001 U
MW-75	W75-190418-	4/18/2019	1.94	1.95	0.0005 U	0.0005 U	4E-05 U	4E-05 U	9.36	9.33	0.0001 U	0.0001 U
MW-76	W76-190410-	4/10/2019	1.46	1.43	0.0005 U	0.0005 U	4E-05 U	4E-05 U	10.5	10.1	0.0001 U	0.0001 U
MW-80	W80-190514-	5/14/2019	1.69	1.66	0.0005 U	0.0005 U	4E-05 U	4E-05 U	7.93	8.26	0.0001 U	0.0001 U
MW-81	W81-190416-	4/16/2019	0.859	0.852	0.00096	0.000799	4E-05 U	4E-05 U	6.57	6.57	0.0001 U	0.0001 U
MW-82	W82-190408-	4/8/2019	1.92	1.87	0.0005 U	0.0005 U	4E-05 U	4E-05 U	8.51	8.27	0.0001 U	0.0001 U

Environmental Monitoring Data

Data Collected from April 1, 2019 to June 30, 2019  
 Cedar Hills Landfill --- Groundwater Metals Data  
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	Potassium,	Potassium,	Selenium,	Selenium,	Silver,	Silver,	Sodium,	Sodium,	Thallium,	Thallium,
			dissolved	total	dissolved	total	dissolved	total	dissolved	total	dissolved	total
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
MW-82	W82-190522-	5/22/2019	1.86	1.87	0.0005 U	0.0005 U	4E-05 U	4E-05 U	7.34	7.78	0.0001 U	0.0001 U
MW-83	W83-190412-	4/12/2019	3.12	3.1	0.0005 U	0.0005 U	4E-05 U	4E-05 U	11.8	11.4	0.0001 U	0.0001 U
MW-84	W84-190410-	4/10/2019	1.18	1.18	0.000811	0.000696	4E-05 U	4E-05 U	7.31	7.13	0.0001 U	0.0001 U
MW-85	W85-190416-	4/16/2019	1.67	1.67	0.000865	0.000914	4E-05 U	4E-05 U	9.54	9.64	0.0001 U	0.0001 U
MW-86	W86-190412-	4/12/2019	1.32	1.28	0.0005 U	0.0005 U	4E-05 U	4E-05 U	7.26	6.87	0.0001 U	0.0001 U
MW-87	W87-190418-	4/18/2019	2.38	2.47	0.0005 U	0.0005 U	4E-05 U	4E-05 U	10.8	11	0.0001 U	0.0001 U
MW-88	W88-190418-	4/18/2019	0.866	0.856	0.0005 U	0.0005 U	4E-05 U	4E-05 U	5.82	5.87	0.0001 U	0.0001 U



Environmental Monitoring Data

Data Collected from April 1, 2019 to June 30, 2019  
 Cedar Hills Landfill --- Groundwater Metals Data  
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	Vanadium, dissolved (mg/L)	Vanadium, total (mg/L)	Zinc, dissolved (mg/L)	Zinc, total (mg/L)
MW-100	W100190412-	4/12/2019	0.0001	0.000105	0.000585	0.00147
MW-101	W101190528-	5/28/2019	0.000232	0.00036	0.00106	0.00171
MW-102	W102190515-	5/15/2019	0.00088	0.00241	0.00128	0.00311
MW-103	W103190517-	5/17/2019	0.00029	0.00146	0.000723	0.007
MW-104	W104190517-	5/17/2019	0.00185	0.0025	0.00105	0.00185
MW-107	W107190513-	5/13/2019	4.43E-04	0.00106	0.00313	0.0037
MW-108	W108190516-	5/16/2019	0.00368	4.32E-03	0.00149	0.00174
MW-109	W109190520-	5/20/2019	0.414 D	0.425 D	0.00301	0.00569
MW-110	W110190516-	5/16/2019	0.00135	0.00141	0.0023	0.00289
MW-111	W111190520-	5/20/2019	0.00101	0.00219	0.000929	0.00194
MW-112	W112190513-	5/13/2019	0.00109	0.00103	0.0005 U	0.0005 U
MW-21	W21-190408-	4/8/2019	0.0000924	7.5E-05 U	0.0005 U	0.0005 U
MW-24	W24-190408-	4/8/2019	7.5E-05 U	7.5E-05 U	0.0005 U	0.0005 U
MW-30A	W30A190513-	5/13/2019	0.00185	0.00206	0.00109	0.00118
MW-47	W47-190513-	5/13/2019	0.000174	0.000208	0.0005 U	0.000647
MW-50	W50-190520-	5/20/2019	0.00327	0.00338	0.000742	0.00111
MW-56	W56-190408-	4/8/2019	0.000202	0.000203	0.00196	0.00124 J
MW-59	W59-190410-	4/10/2019	7.5E-05 U	7.5E-05 U	0.00106	0.00216
MW-62	W62-190528-	5/28/2019	0.00066 H	0.000753	0.00147 BH	0.00121
MW-64	W64-190412-	4/12/2019	0.000213	0.000404	0.000519 J	0.00108
MW-65	W65-190412-	4/12/2019	7.5E-05 U	7.5E-05 U	0.000542	0.000658 J
MW-66	W66-190410-	4/10/2019	0.000732	0.000723	0.0005 U	0.00137
MW-67	W67-190412-	4/12/2019	0.00024	0.00209	0.0005 U	0.0016
MW-68	W68-190415-	4/15/2019	0.000205	0.000344	0.0005 U	0.000661
MW-68	W68-190514-	5/14/2019	0.000189	0.000304	0.0005 U	0.0005 U
MW-69	W69-190415-	4/15/2019	0.000111	0.000275	0.0005 U	0.00201
MW-72	W72-190416-	4/16/2019	7.5E-05 U	0.0000808	0.000761	0.00164
MW-73	W73-190410-	4/10/2019	0.00131	0.00127	0.0005 U	0.0005 U
MW-74R	W74R190418-	4/18/2019	0.000615	0.000796	0.000586	0.000675
MW-74R	W74R190418D	4/18/2019	0.000572	0.000796	0.000579	0.000653
MW-75	W75-190418-	4/18/2019	7.5E-05 U	7.5E-05 U	0.000509	0.0005 U
MW-76	W76-190410-	4/10/2019	0.000621	0.000594	0.000784	0.0005 U
MW-80	W80-190514-	5/14/2019	7.5E-05 U	7.5E-05 U	0.0005 U	0.0005 U
MW-81	W81-190416-	4/16/2019	0.00164	0.00178	0.0005 U	0.00167
MW-82	W82-190408-	4/8/2019	0.00133	0.00132	0.0005 U	0.000571

Environmental Monitoring Data

Data Collected from April 1, 2019 to June 30, 2019

Cedar Hills Landfill --- Groundwater Metals Data

Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	Vanadium,	Vanadium,	Zinc,	Zinc,
			dissolved	total	dissolved	total
			(mg/L)	(mg/L)	(mg/L)	(mg/L)
MW-82	W82-190522-	5/22/2019	0.00125	0.0013	0.000841	0.0005 JU
MW-83	W83-190412-	4/12/2019	0.000811	0.000882	0.000604	0.000802
MW-84	W84-190410-	4/10/2019	0.000507	0.000517	0.0005 U	0.0005 U
MW-85	W85-190416-	4/16/2019	0.000922	0.000991	0.0005 U	0.000641
MW-86	W86-190412-	4/12/2019	0.000136	0.000428	0.0005 U	0.000608
MW-87	W87-190418-	4/18/2019	7.5E-05 U	0.000144	0.00054	0.00135
MW-88	W88-190418-	4/18/2019	0.00267	0.00267	0.0005 JU	0.0005 U

Environmental Monitoring Data

Data Collected from April 1, 2019 to June 30, 2019  
 Cedar Hills Landfill --- Groundwater VOAs Data  
 Contact Person: Sedy Jimenez (206) 477-5224

Site	Date	Sample ID	1,1,1,2-	1,1,1-	1,1,2,2-	1,1,2-	1,1-	1,1-	1,2,3-	1,2-Dibromo-	1,2-	1,2-	1,2-
			Tetrachloroethane	Trichloroethane	Tetrachloroethane	Trichloroethane	Dichloroethane	Dichloroethane	Trichloropropane	3-Chloropropane	Dibromoethane	Dichlorobenzene	Dichloroethane
			ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
			630-20-6	71-55-6	79-34-5	79-00-5	75-34-3	75-35-4	96-18-4	96-12-8	106-93-4	95-50-1	107-06-2
MW-100	W100190412-	4/12/2019	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-101	W101190528-	5/28/2019	0.25 U	0.1 U	0.1 U	0.1 U	0.154 JT	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.139 JT
MW-102	W102190515-	5/15/2019	0.25 U	0.1 U	0.1 U	1 U	0.146 JT	2 U	0.1 U	2.5 U	0.1 U	1 U	0.1 U
MW-103	W103190517-	5/17/2019	0.25 U	0.1 U	0.1 U	1 U	0.1 U	2 U	0.1 U	2.5 U	0.1 U	1 U	0.1 U
MW-104	W104190517-	5/17/2019	0.25 U	0.1 U	0.1 U	1 U	0.1 U	2 U	0.1 U	2.5 U	0.1 U	1 U	0.1 U
MW-107	W107190513-	5/13/2019	0.25 U	0.1 U	0.1 U	1 U	0.1 U	2 U	0.1 U	2.5 U	0.1 U	1 U	0.1 U
MW-108	W108190516-	5/16/2019	0.25 U	0.1 U	0.1 U	1 U	0.1 U	2 U	0.1 U	2.5 U	0.1 U	1 U	0.1 U
MW-109	W109190520-	5/20/2019	2.5 U	1 U	1 U	10 U	1 U	2.5 U	1 U	25 U	1 U	10 U	1 U
MW-110	W110190516-	5/16/2019	0.25 U	0.1 U	0.1 U	1 U	0.351	2 U	0.1 U	2.5 U	0.1 U	1 U	0.303
MW-111	W111190520-	5/20/2019	0.25 U	0.1 U	0.1 U	1 U	0.1 U	2 U	0.1 U	2.5 U	0.1 U	1 U	0.1 U
MW-112	W112190513-	5/13/2019	0.25 U	0.1 U	0.1 U	1 U	0.1 U	2 U	0.1 U	2.5 U	0.1 U	1 U	0.1 U
MW-21	W21-190408-	4/8/2019	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-24	W24-190408-	4/8/2019	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-30A	W30A190513-	5/13/2019	0.25 U	0.1 U	0.1 U	1 U	1.77	2 U	0.1 U	2.5 U	0.1 U	1 U	0.1 U
MW-47	W47-190513-	5/13/2019	0.25 U	0.1 U	0.1 U	1 U	0.589	2 U	0.1 U	2.5 U	0.1 U	1 U	0.109 JT
MW-50	W50-190520-	5/20/2019	0.25 U	0.1 U	0.1 U	1 U	0.1 U	2 U	0.1 U	2.5 U	0.1 U	1 U	0.1 U
MW-56	W56-190408-	4/8/2019	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-59	W59-190410-	4/10/2019	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-62	W62-190528-	5/28/2019	0.25 U	0.1 U	0.1 U	0.1 U	0.393	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
MW-64	W64-190412-	4/12/2019	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-65	W65-190412-	4/12/2019	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-66	W66-190410-	4/10/2019	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-67	W67-190412-	4/12/2019	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	W68-190415-	4/15/2019	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	W68-190514-	5/14/2019	0.25 U	0.1 U	0.1 U	1 U	0.1 U	2 U	0.1 U	2.5 U	0.1 U	1 U	0.1 U
MW-69	W69-190415-	4/15/2019	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	W72-190416-	4/16/2019	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-73	W73-190410-	4/10/2019	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	W74R190418-	4/18/2019	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	W74R190418D	4/18/2019	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-75	W75-190418-	4/18/2019	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-76	W76-190410-	4/10/2019	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	W80-190514-	5/14/2019	0.25 U	0.1 U	0.1 U	1 U	0.1 U	2 U	0.1 U	2.5 U	0.1 U	1 U	0.1 U
MW-81	W81-190416-	4/16/2019	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-82	W82-190522-	5/22/2019	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 April 1, 2019 to June 30, 2019  
 Cedar Hills Landfill --- Groundwater VOAs Data  
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	1,1,1,2-	1,1,1-	1,1,2,2-	1,1,2-	1,1-	1,1-	1,2,3-	1,2-Dibromo-	1,2-	1,2-	1,2-
			Tetrachloroethane	Trichloroethane	Tetrachloroethane	Trichloroethane	Dichloroethane	Dichloroethane	Trichloropropane	3-Chloropropane	Dibromoethane	Dichlorobenzene	Dichloroethane
			ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
MW-83	W83-190412-	4/12/2019	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	W84-190410-	4/10/2019	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	W85-190416-	4/16/2019	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-86	W86-190412-	4/12/2019	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-87	W87-190418-	4/18/2019	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-88	W88-190418-	4/18/2019	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-89	W89-190418-	4/18/2019	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	W93-190416-	4/16/2019	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-94	W94-190410-	4/10/2019	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-95	W95-190408-	4/8/2019	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-EB6	WB6-190514-	5/14/2019	0.25 U	0.1 U	0.1 U	1 U	0.1 U	2 U	0.1 U	2.5 U	0.1 U	1 U	0.1 U
VOA TRIP BLANK	VTRP190408X	4/5/2019	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	VTRP190408Y	4/5/2019	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	VTRP190410X	4/8/2019	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	VTRP190410Y	4/8/2019	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	VTRP190412X	4/11/2019	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	VTRP190412Y	4/8/2019	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	VTRP190415Y	4/11/2019	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	VTRP190416X	4/16/2019	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	VTRP190416Y	4/16/2019	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	VTRP190418X	4/16/2019	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 April 1, 2019 to June 30, 2019  
 Cedar Hills Landfill --- Groundwater VOAs Data  
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	1,2-	1,4-	2-Butanone	2-	4-Methyl-2-	Acetone	Acrylonitrile	Benzene	Bromochlor	Bromodichlor	Bromoform	Bromomethan	
			Dichloroprop	Dichlorobenze		Hexanone	Pentanone								
			ane	ne											
			ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	
			78-87-5	106-46-7	78-93-3	591-78-6	108-10-1	67-64-1	107-13-1	71-43-2	74-97-5	75-27-4	75-25-2	74-83-9	
MW-100	W100190412-	4/12/2019	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-101	W101190528-	5/28/2019	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-102	W102190515-	5/15/2019	0.1 U	0.1 U	0.25 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	1 U	0.25 U	0.5 U	0.1 U	
MW-103	W103190517-	5/17/2019	0.1 U	0.1 U	0.25 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	1 U	0.25 U	0.5 U	0.1 U	
MW-104	W104190517-	5/17/2019	0.1 U	0.1 U	0.25 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	1 U	0.25 U	0.5 U	0.1 U	
MW-107	W107190513-	5/13/2019	0.1 U	3.73	0.25 U	0.5 U	2.5 U	2.5 U	0.035 U	0.361	1 U	0.25 U	0.5 U	0.1 U	
MW-108	W108190516-	5/16/2019	0.1 U	0.1 U	0.25 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	1 U	0.25 U	0.5 U	0.1 U	
MW-109	W109190520-	5/20/2019	1 U	1 U	2.5 U	5 U	25 U	25 U	0.35 U	1.08 JT	10 U	2.5 U	5 U	1 U	
MW-110	W110190516-	5/16/2019	0.227	0.145 JT	0.25 U	0.5 U	2.5 U	2.5 U	0.035 U	0.209	1 U	0.25 U	0.5 U	0.1 U	
MW-111	W111190520-	5/20/2019	0.1 U	0.1 U	0.25 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	1 U	0.25 U	0.5 U	0.1 U	
MW-112	W112190513-	5/13/2019	0.1 U	0.1 U	0.25 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	1 U	0.25 U	0.5 U	0.1 U	
MW-21	W21-190408-	4/8/2019	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-24	W24-190408-	4/8/2019	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-30A	W30A190513-	5/13/2019	0.1 U	0.1 U	0.25 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	1 U	0.25 U	0.5 U	0.1 U	
MW-47	W47-190513-	5/13/2019	0.1 U	0.1 U	0.25 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	1 U	0.25 U	0.5 U	0.1 U	
MW-50	W50-190520-	5/20/2019	0.1 U	0.1 U	0.25 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	1 U	0.25 U	0.5 U	0.1 U	
MW-56	W56-190408-	4/8/2019	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-59	W59-190410-	4/10/2019	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-62	W62-190528-	5/28/2019	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-64	W64-190412-	4/12/2019	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-65	W65-190412-	4/12/2019	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-66	W66-190410-	4/10/2019	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-67	W67-190412-	4/12/2019	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-68	W68-190415-	4/15/2019	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-68	W68-190514-	5/14/2019	0.1 U	0.1 U	0.25 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	1 U	0.25 U	0.5 U	0.1 U	
MW-69	W69-190415-	4/15/2019	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-72	W72-190416-	4/16/2019	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-73	W73-190410-	4/10/2019	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-74R	W74R190418-	4/18/2019	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-74R	W74R190418D	4/18/2019	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-75	W75-190418-	4/18/2019	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-76	W76-190410-	4/10/2019	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-80	W80-190514-	5/14/2019	0.1 U	0.1 U	0.25 U	0.5 U	2.5 U	2.65 JT	0.035 U	0.1 U	1 U	0.25 U	0.5 U	0.1 U	
MW-81	W81-190416-	4/16/2019	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-82	W82-190522-	5/22/2019	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	

Environmental Monitoring Data

Data Collected from April 1, 2019 to June 30, 2019  
 Cedar Hills Landfill --- Groundwater VOAs Data  
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	1,2-	1,4-	2-Butanone	2-	4-Methyl-2-	Acetone	Acrylonitrile	Benzene	Bromochlor	Bromodichlor	Bromoform	Bromomethan	
			Dichloroprop	Dichlorobenze		Hexanone	Pentanone					omethane	omethane		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	ug/l
			78-87-5	106-46-7	78-93-3	591-78-6	108-10-1	67-64-1	107-13-1	71-43-2	74-97-5	75-27-4	75-25-2	74-83-9	
MW-83	W83-190412-	4/12/2019	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-84	W84-190410-	4/10/2019	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-85	W85-190416-	4/16/2019	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-86	W86-190412-	4/12/2019	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-87	W87-190418-	4/18/2019	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-88	W88-190418-	4/18/2019	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-89	W89-190418-	4/18/2019	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-93	W93-190416-	4/16/2019	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-94	W94-190410-	4/10/2019	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-95	W95-190408-	4/8/2019	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-EB6	WB6-190514-	5/14/2019	0.1 U	0.1 U	0.25 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	1 U	0.25 U	0.5 U	0.1 U	
VOA TRIP BLANK	VTRP190408X	4/5/2019	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
VOA TRIP BLANK	VTRP190408Y	4/5/2019	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
VOA TRIP BLANK	VTRP190410X	4/8/2019	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
VOA TRIP BLANK	VTRP190410Y	4/8/2019	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
VOA TRIP BLANK	VTRP190412X	4/11/2019	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
VOA TRIP BLANK	VTRP190412Y	4/8/2019	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
VOA TRIP BLANK	VTRP190415Y	4/11/2019	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
VOA TRIP BLANK	VTRP190416X	4/16/2019	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
VOA TRIP BLANK	VTRP190416Y	4/16/2019	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
VOA TRIP BLANK	VTRP190418X	4/16/2019	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	

Environmental Monitoring Data

Data Collected from April 1, 2019 to June 30, 2019  
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 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	Carbon	Carbon	Chlorbenzene	Chlorodibr	Chloroethan	Chlorofo	Chloromethan	cis-1,2-	cis-1,3-	Dibromo	Dichlorodifl	Ethylbenzene
			Disulfide	Tetrachloride		omometha	e	m	e	Dichloroet	Dichloroprop	methane	uoromethan	
			ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
			75-15-0	56-23-5	108-90-7	124-48-1	75-00-3	67-66-3	74-87-3	156-59-2	10061-01-5	74-95-3	75-71-8	100-41-4
MW-100	W100190412-	4/12/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-101	W101190528-	5/28/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.307	0.1 U	0.25 U	0.205	0.25 U	0.1 U	0.1 U	0.1 U
MW-102	W102190515-	5/15/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	4 U	0.111 JT	0.25 U	0.1 U	0.1 U	0.1 U
MW-103	W103190517-	5/17/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	4 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-104	W104190517-	5/17/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	4 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-107	W107190513-	5/13/2019	0.1 U	0.25 U	1.93	0.5 U	0.1 U	0.1 U	4 U	0.347	0.25 U	0.1 U	0.1 U	0.1 U
MW-108	W108190516-	5/16/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	4 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-109	W109190520-	5/20/2019	1 U	2.5 U	1 U	5 U	1 U	1 U	40 U	1 U	2.5 U	1 U	1 U	1 U
MW-110	W110190516-	5/16/2019	0.1 U	0.25 U	0.486	0.5 U	0.1 U	0.1 U	4 U	3.75	0.25 U	0.1 U	0.1 U	0.1 U
MW-111	W111190520-	5/20/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	4 U	0.154 JT	0.25 U	0.1 U	0.1 U	0.1 U
MW-112	W112190513-	5/13/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	4 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-21	W21-190408-	4/8/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-24	W24-190408-	4/8/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-30A	W30A190513-	5/13/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	4 U	1.95	0.25 U	0.1 U	0.1 U	0.1 U
MW-47	W47-190513-	5/13/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	4 U	1.68	0.25 U	0.1 U	3.94	0.1 U
MW-50	W50-190520-	5/20/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	4 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-56	W56-190408-	4/8/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	1.48	0.25 U	0.1 U	0.1 U	0.1 U
MW-59	W59-190410-	4/10/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.26 JT	1.38	0.25 U	0.1 U	0.1 U	0.1 U
MW-62	W62-190528-	5/28/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.919	0.25 U	0.1 U	0.1 U	0.1 U
MW-64	W64-190412-	4/12/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-65	W65-190412-	4/12/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-66	W66-190410-	4/10/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-67	W67-190412-	4/12/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-68	W68-190415-	4/15/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-68	W68-190514-	5/14/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	4 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-69	W69-190415-	4/15/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-72	W72-190416-	4/16/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-73	W73-190410-	4/10/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-74R	W74R190418-	4/18/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-74R	W74R190418D	4/18/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-75	W75-190418-	4/18/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-76	W76-190410-	4/10/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.327	0.25 U	0.1 U	0.1 U	0.1 U
MW-80	W80-190514-	5/14/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	4 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-81	W81-190416-	4/16/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-82	W82-190522-	5/22/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U

Environmental Monitoring Data

Data Collected from April 1, 2019 to June 30, 2019  
 Cedar Hills Landfill --- Groundwater VOAs Data  
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	Carbon	Carbon	Chlorbenzene	Chlorodibr	Chloroethan	Chlorofo	Chloromethan	cis-1,2-	cis-1,3-	Dibromo	Dichlorodifl	Ethylbenzene
			Disulfide	Tetrachloride		omometha	e	m	e	Dichloroet	Dichloroprop	methane	uoromethan	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-83	W83-190412-	4/12/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-84	W84-190410-	4/10/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-85	W85-190416-	4/16/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-86	W86-190412-	4/12/2019	0.107 JT	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-87	W87-190418-	4/18/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-88	W88-190418-	4/18/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-89	W89-190418-	4/18/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-93	W93-190416-	4/16/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-94	W94-190410-	4/10/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-95	W95-190408-	4/8/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-EB6	WB6-190514-	5/14/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	4 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	VTRP190408X	4/5/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	VTRP190408Y	4/5/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	VTRP190410X	4/8/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	VTRP190410Y	4/8/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	VTRP190412X	4/11/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	VTRP190412Y	4/8/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	VTRP190415Y	4/11/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	VTRP190416X	4/16/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	VTRP190416Y	4/16/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	VTRP190418X	4/16/2019	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U



Environmental Monitoring Data

Data Collected from April 1, 2019 to June 30, 2019  
 Cedar Hills Landfill --- Groundwater VOAs Data  
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	M & P Xylene	Methyl Iodide	Methylene Chloride	O-Xylene	Styrene	Tetrachloroethene	Toluene	Trans-1,2-Dichloroethene	Trans-1,3-Dichloropropene
			ug/l MPX	ug/l 74-88-4	ug/l 75-09-2	ug/l 95-47-6	ug/l 100-42-5	ug/l 127-18-4	ug/l 108-88-3	ug/l 156-60-5	ug/l 10061-02-6
MW-100	W100190412-	4/12/2019	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
MW-101	W101190528-	5/28/2019	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
MW-102	W102190515-	5/15/2019	0.1 U	5 U	2.5 U	0.1 U	0.1 U	1 U	0.1 U	0.1 U	0.5 U
MW-103	W103190517-	5/17/2019	0.1 U	5 U	2.5 U	0.1 U	0.1 U	1 U	0.1 U	0.1 U	0.5 U
MW-104	W104190517-	5/17/2019	0.1 U	5 U	2.5 U	0.1 U	0.1 U	1 U	0.1 U	0.1 U	0.5 U
MW-107	W107190513-	5/13/2019	0.1 U	5 U	2.5 U	0.1 U	0.1 U	1 U	0.1 U	0.119 JT	0.5 U
MW-108	W108190516-	5/16/2019	0.1 U	5 U	2.5 U	0.1 U	0.1 U	1 U	0.122 JT	0.1 U	0.5 U
MW-109	W109190520-	5/20/2019	1 U	50 U	25 U	1 U	1 U	10 U	40.2	1 U	5 U
MW-110	W110190516-	5/16/2019	0.1 U	5 U	2.5 U	0.1 U	0.1 U	1 U	0.138 JT	0.112 JT	0.5 U
MW-111	W111190520-	5/20/2019	0.1 U	5 U	2.5 U	0.1 U	0.1 U	1 U	0.1 U	0.1 U	0.5 U
MW-112	W112190513-	5/13/2019	0.1 U	5 U	2.5 U	0.1 U	0.1 U	1 U	0.1 U	0.1 U	0.5 U
MW-21	W21-190408-	4/8/2019	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
MW-24	W24-190408-	4/8/2019	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
MW-30A	W30A190513-	5/13/2019	0.1 U	5 U	2.5 U	0.1 U	0.1 U	1 U	0.1 U	0.1 U	0.5 U
MW-47	W47-190513-	5/13/2019	0.1 U	5 U	2.5 U	0.1 U	0.1 U	1 U	0.1 U	0.1 U	0.5 U
MW-50	W50-190520-	5/20/2019	0.1 U	5 U	2.5 U	0.1 U	0.1 U	1 U	0.1 U	0.1 U	0.5 U
MW-56	W56-190408-	4/8/2019	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
MW-59	W59-190410-	4/10/2019	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
MW-62	W62-190528-	5/28/2019	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
MW-64	W64-190412-	4/12/2019	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
MW-65	W65-190412-	4/12/2019	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
MW-66	W66-190410-	4/10/2019	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
MW-67	W67-190412-	4/12/2019	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
MW-68	W68-190415-	4/15/2019	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
MW-68	W68-190514-	5/14/2019	0.1 U	5 U	2.5 U	0.1 U	0.1 U	1 U	0.1 U	0.1 U	0.5 U
MW-69	W69-190415-	4/15/2019	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
MW-72	W72-190416-	4/16/2019	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
MW-73	W73-190410-	4/10/2019	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
MW-74R	W74R190418-	4/18/2019	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
MW-74R	W74R190418D	4/18/2019	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
MW-75	W75-190418-	4/18/2019	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
MW-76	W76-190410-	4/10/2019	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.309	0.1 U	0.1 U	0.5 U
MW-80	W80-190514-	5/14/2019	0.1 U	5 U	2.5 U	0.1 U	0.1 U	1 U	0.1 U	0.1 U	0.5 U
MW-81	W81-190416-	4/16/2019	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
MW-82	W82-190522-	5/22/2019	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U

Environmental Monitoring Data

Data Collected from April 1, 2019 to June 30, 2019  
 Cedar Hills Landfill --- Groundwater VOAs Data  
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	M & P Xylene	Methyl Iodide	Methylene Chloride	O-Xylene	Styrene	Tetrachloroethene	Toluene	Trans-1,2-Dichloroethene	Trans-1,3-Dichloropropene
			ug/l MPX	ug/l 74-88-4	ug/l 75-09-2	ug/l 95-47-6	ug/l 100-42-5	ug/l 127-18-4	ug/l 108-88-3	ug/l 156-60-5	ug/l 10061-02-6
MW-83	W83-190412-	4/12/2019	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
MW-84	W84-190410-	4/10/2019	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
MW-85	W85-190416-	4/16/2019	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
MW-86	W86-190412-	4/12/2019	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
MW-87	W87-190418-	4/18/2019	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
MW-88	W88-190418-	4/18/2019	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
MW-89	W89-190418-	4/18/2019	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
MW-93	W93-190416-	4/16/2019	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
MW-94	W94-190410-	4/10/2019	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
MW-95	W95-190408-	4/8/2019	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
MW-EB6	WB6-190514-	5/14/2019	0.1 U	5 U	2.5 U	0.1 U	0.1 U	1 U	0.1 U	0.1 U	0.5 U
VOA TRIP BLANK	VTRP190408X	4/5/2019	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
VOA TRIP BLANK	VTRP190408Y	4/5/2019	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
VOA TRIP BLANK	VTRP190410X	4/8/2019	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
VOA TRIP BLANK	VTRP190410Y	4/8/2019	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
VOA TRIP BLANK	VTRP190412X	4/11/2019	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
VOA TRIP BLANK	VTRP190412Y	4/8/2019	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
VOA TRIP BLANK	VTRP190415Y	4/11/2019	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
VOA TRIP BLANK	VTRP190416X	4/16/2019	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
VOA TRIP BLANK	VTRP190416Y	4/16/2019	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
VOA TRIP BLANK	VTRP190418X	4/16/2019	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U

Environmental Monitoring Data

Data Collected from April 1, 2019 to June 30, 2019  
 Cedar Hills Landfill --- Groundwater VOAs Data  
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	Trans-1,4- Dichloro-2- Butene	Trichloroethene	Trichlorofluoro methane	Vinyl Acetate	Vinyl Chloride
			ug/l 110-57-6	ug/l 79-01-6	ug/l 75-69-4	ug/l 108-05-4	ug/l 75-01-4
MW-100	W100190412-	4/12/2019	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-101	W101190528-	5/28/2019	5 U	0.1 U	0.1 U	0.1 U	0.478
MW-102	W102190515-	5/15/2019	0.5 U	0.1 U	0.1 U	0.1 U	0.01 DU
MW-103	W103190517-	5/17/2019	0.5 U	0.1 U	0.1 U	0.1 U	0.01 DU
MW-104	W104190517-	5/17/2019	0.5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-107	W107190513-	5/13/2019	0.5 U	0.1 U	0.1 U	0.1 U	0.694
MW-108	W108190516-	5/16/2019	0.5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-109	W109190520-	5/20/2019	5 U	1 U	1 U	1 U	0.142 DJT
MW-110	W110190516-	5/16/2019	0.5 U	0.1 U	0.1 U	0.1 U	0.0877
MW-111	W111190520-	5/20/2019	0.5 U	0.1 U	0.1 U	0.1 U	0.01 DU
MW-112	W112190513-	5/13/2019	0.5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-21	W21-190408-	4/8/2019	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-24	W24-190408-	4/8/2019	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-30A	W30A190513-	5/13/2019	0.5 U	0.786	0.1 U	0.1 U	0.01 U
MW-47	W47-190513-	5/13/2019	0.5 U	0.1 U	0.1 U	0.1 U	5.33
MW-50	W50-190520-	5/20/2019	0.5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-56	W56-190408-	4/8/2019	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-59	W59-190410-	4/10/2019	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-62	W62-190528-	5/28/2019	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-64	W64-190412-	4/12/2019	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-65	W65-190412-	4/12/2019	5 U	0.1 U	0.1 U	0.1 U	0.0261
MW-66	W66-190410-	4/10/2019	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-67	W67-190412-	4/12/2019	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-68	W68-190415-	4/15/2019	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-68	W68-190514-	5/14/2019	0.5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-69	W69-190415-	4/15/2019	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-72	W72-190416-	4/16/2019	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-73	W73-190410-	4/10/2019	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-74R	W74R190418-	4/18/2019	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-74R	W74R190418D	4/18/2019	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-75	W75-190418-	4/18/2019	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-76	W76-190410-	4/10/2019	5 U	6.07	0.1 U	0.1 U	0.01 U
MW-80	W80-190514-	5/14/2019	0.5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-81	W81-190416-	4/16/2019	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-82	W82-190522-	5/22/2019	5 U	4.28	0.1 U	0.1 U	0.01 U

Environmental Monitoring Data

Data Collected from April 1, 2019 to June 30, 2019

Cedar Hills Landfill --- Groundwater VOAs Data

Contact Person: Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	Trans-1,4- Dichloro-2- Butene	Trichloroethene	Trichlorofluoro methane	Vinyl Acetate	Vinyl Chloride
			ug/l 110-57-6	ug/l 79-01-6	ug/l 75-69-4	ug/l 108-05-4	ug/l 75-01-4
MW-83	W83-190412-	4/12/2019	5 U	1.41	0.1 U	0.1 U	0.01 U
MW-84	W84-190410-	4/10/2019	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-85	W85-190416-	4/16/2019	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-86	W86-190412-	4/12/2019	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-87	W87-190418-	4/18/2019	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-88	W88-190418-	4/18/2019	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-89	W89-190418-	4/18/2019	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-93	W93-190416-	4/16/2019	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-94	W94-190410-	4/10/2019	5 U	2.09	0.1 U	0.1 U	0.01 U
MW-95	W95-190408-	4/8/2019	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-EB6	WB6-190514-	5/14/2019	0.5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	VTRP190408X	4/5/2019	5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	VTRP190408Y	4/5/2019	5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	VTRP190410X	4/8/2019	5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	VTRP190410Y	4/8/2019	5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	VTRP190412X	4/11/2019	5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	VTRP190412Y	4/8/2019	5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	VTRP190415Y	4/11/2019	5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	VTRP190416X	4/16/2019	5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	VTRP190416Y	4/16/2019	5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	VTRP190418X	4/16/2019	5 U	0.1 U	0.1 U	0.1 U	0.01 U

## Storm and Surface Water Field and Analytical Data



Environmental Monitoring Data

Data Collected from April 1, 2019 to June 30, 2019  
 Cedar Hills Landfill --- Stormwater Elevation Data  
 Contact Person: Sendy Jimenez (206) 477-5224

Staff Gage	Location	Date	Reference Elevation Staff Gage 0' (msl)	Staff Gage Reading (feet)	Reference Elevation Top of Peizo (msl)	Depth to Water (Peizometer) (feet)	Surface Water Elevation (msl)
SW-G1	SW-W1	4/1/2019	415.38	0.63	418.84		416.01
SW-G1	SW-W1	5/22/2019	415.38	0.60	418.84		415.98
SW-G1	SW-W1	6/14/2019	415.38	0.57	418.84		415.95
SW-G1	SW-W1	6/21/2019	415.38	0.56	418.84		415.94
SW-G2	SW-N1	4/1/2019	355.68	0.35	358.21		356.03
SW-G2	SW-N1	5/22/2019	355.68	0.30	358.21		355.98
SW-G2	SW-N1	6/14/2019	355.68		358.21	3.20	352.48
SW-G2	SW-N1	6/21/2019	355.68	0.26	358.21		355.94
SW-G3	SW -V	4/1/2019	466.46		469.88		466.46

Environmental Monitoring Data

Data Collected from April 1, 2019 to June 30, 2019  
 Cedar Hills Landfill --- Stormwater Elevation Data  
 Contact Person: Sedy Jimenez (206) 477-5224

Site	Date	Sample ID	pH (Field)  (std. Units)	Conductance (Field)  (umho/cm)	Temperature  (°C)	Turbidity  (NTU)	Oxygen, Dissolved  (mg/L)
SW-GS1	4/2/2019	SGS1190402P	6.85	171.6	11.62	--	9.38
SW-N4	4/2/2019	SN4-190402P	6.96	109.3	10.66	--	10.69
SW-SL3	4/2/2019	SSL3190402P	6.29	128.8	8.59	--	7.27



Environmental Monitoring Data

Data Collected from April 1, 2019 to June 30, 2019  
 Cedar Hills Landfill --- Stormwater Conventional Data  
 Contact Person: Sedy Jimenez (206) 477-5224

Site	Date	Sample ID	Ammonia, (NH3)  (mg/L)	Biological Oxygen Demand  (mg/L)	Total Suspended Solids  (mg/L)	Copper, total  (mg/L)	Zinc, total  (mg/L)
SW-GS1	4/2/2019	SGS1190402P	0.021	2 U	4.8	--	0.00158
SW-N4	4/2/2019	SN4-190402P	0.0057 T	2 U	7	--	0.0219
SW-SL3	4/2/2019	SSL3190402P	0.0166	2 U	1	--	0.00499

Environmental Monitoring Data

Data Collected from April 1, 2019 to June 30, 2019

Cedar Hills Landfill --- Stormwater VOAs Data

Contact Person: Sedy Jimenez (206) 477-5224

Site	Date	Sample ID	3-4-Methyl-phenol 106-44-5 (ug/L)	Alpha Terpineol 98-55-5 (ug/L)	Benzoic Acid 65-85-0 (ug/L)	Phenol 108-95-2 (ug/L)
SW-GS1	4/2/2019	SGS1190402P	0.485 U	0.485 U	9.71 U	0.485 U
SW-N4	4/2/2019	SN4-190402P	0.481 U	0.481 U	9.62 U	0.481 U
SW-SL3	4/2/2019	SSL3190402P	0.481 U	0.481 U	9.62 U	0.481 U

# Washington Department of Ecology Electronic Submission Cover Letter



**WQWebDMR - Permit# WAR000756 - DMR Submission Id: 1685656 - 8/5/2019 3:36:51 PM**

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 August 5 2019

### 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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+Ghx9TG55vh2gO6KDM4OjEwYEs=



# Washington State Department of Ecology Discharge Monitoring Report (DMR)

Permit Number: WAR000756

Permittee: CEDAR HILLS LANDFILL

Facility County: King

Receiving Waterbody: Unnamed stream

Monitoring Period: 04/01/2019 - 06/30/2019

Outfall: GS1 - Discharge to unnamed stream (wetland)

Version: 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Quarterly Grab	pH Standard Units Quarterly Grab	Oil & Grease Yes/No Quarterly Visual Observation	Copper Total Micrograms/L (ug/L) Quarterly Grab	Zinc Total Micrograms/L (ug/L) Quarterly Grab	Total 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	Benzic Acid Micrograms/L (ug/L) Quarterly Grab	p-Cresol (4-methylphenol) Micrograms/L (ug/L) Quarterly Grab
Week	Monitoring Point	GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1
Limit Set		ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit
1-T	4/2/19	A	A	No	A	A	<2	4.8	0.021	<0.485	<9.71	<0.485
Minimum			A BM: >= 5.0 (RO)									
Average		A BM: <= 25			A BM: <= 14	A BM: <= 117						
Maximum			A BM: <= 9.0 (RO)									
Month 1 Average							<2 <= 37	4.8 <= 27	0.021 <= 4.9	<0.485 <= 16	<9.71 <= 71	<0.485 <= 14
Month 2 Average							M <= 37	M <= 27	M <= 4.9	M <= 16	M <= 71	M <= 14
Month 3 Average							M <= 37	M <= 27	M <= 4.9	M <= 16	M <= 71	M <= 14

Reporting Codes Used: A - Consistent Attainment Of Benchmark, B - Below Detection Limit/No Detection, M - Monitoring Is Conditional/Not Req This MP



Week	Monitoring Point	Phenol Micrograms/L (ug/L) Quarterly Grab	Zinc Total Micrograms/L (ug/L) Quarterly Grab	pH Standard Units Quarterly Grab
	GS1	GS1	GS1	GS1
<b>Limit Set</b>	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit
1-T	4/2/19	<0.485	1.58	6.85
<b>Minimum</b>				6.85 >= 6.0 (RO)
<b>Average</b>				
<b>Maximum</b>				6.85 <= 9.0 (RO)
<b>Month 1 Average</b>		<0.485 <= 15	1.58 <= 110	
<b>Month 2 Average</b>		M <= 15	M <= 110	
<b>Month 3 Average</b>		M <= 15	M <= 110	



Permit Number: WAR000756

Permittee: CEDAR HILLS LANDFILL

Facility County: King

Receiving Waterbody: Unnamed stream

Monitoring Period: 04/01/2019 - 06/30/2019

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

Version: 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Quarterly Grab	pH Standard Units Quarterly Grab	Oil & Grease Yes/No Quarterly Visual Observation	Copper Total Micrograms/L (ug/L) Quarterly Grab	Zinc 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	Benzic Acid Micrograms/L (ug/L) Quarterly Grab	p-Cresol (4-methylphenol) Micrograms/L (ug/L) Quarterly Grab
	N4	N4	N4	N4	N4	N4	N4	N4	N4	N4	N4	N4
		ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit
1-T	4/2/19	A	A	No	A	A	<2	7	0.0057*	<0.481	<9.62	<0.481
Minimum			A BM: >= 5.0 (RO)									
Average		A BM: <= 25			A BM: <= 14	A BM: <= 117						
Maximum			A BM: <= 9.0 (RO)									
Month 1 Average							<2 <= 37	7 <= 27	0.0057 <= 4.9	<0.481 <= 16	<9.62 <= 71	<0.481 <= 14
Month 2 Average							M <= 37	M <= 27	M <= 4.9	M <= 16	M <= 71	M <= 14
Month 3 Average							M <= 37	M <= 27	M <= 4.9	M <= 16	M <= 71	M <= 14

Reporting Codes Used: A - Consistent Attainment Of Benchmark, B - Below Detection Limit/No Detection, M - Monitoring Is Conditional/Not Req This MP

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

Monitoring Point	Parameter	Sample Date/ Statistical Base	Value	Notes/Comment
N4	Ammonia Total Milligrams/L (mg/L)	4/2/2019	0.0057	Analytical laboratory applied the following data qualifier to this data point: T (<RDL in LIMS database) is applied when a target analyte concentration is greater than the CRDL but it is less than the reporting detection limit (RDL). The RDL represents the minimum concentration at which method performance becomes quantitatively accurate to the expected capability of the method and is not subject to the higher degree of variation observed at concentrations between the MDL and RDL.



Week	Monitoring Point	Phenol Micrograms/L (ug/L) Quarterly Grab	Zinc Total Micrograms/L (ug/L) Quarterly Grab	pH Standard Units Quarterly Grab
		N4	N4	N4
<b>Limit Set</b>		ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit
1-T	4/2/19	<0.481	21.9	6.96
<b>Minimum</b>				6.96 >= 6.0 (RO)
<b>Average</b>				
<b>Maximum</b>				6.96 <= 9.0 (RO)
<b>Month 1 Average</b>		<0.481 <= 15	21.9 <= 110	
<b>Month 2 Average</b>		M <= 15	M <= 110	
<b>Month 3 Average</b>		M <= 15	M <= 110	



# Washington State Department of Ecology Discharge Monitoring Report (DMR)

Permit Number: WAR000756

Permittee: CEDAR HILLS LANDFILL

Facility County: King

Receiving Waterbody: Unnamed stream

Monitoring Period: 04/01/2019 - 06/30/2019

Outfall: SL3 - Discharge to unnamed stream (ditch)

Version: 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Quarterly Grab	pH Standard Units Quarterly Grab	Oil & Grease Yes/No Quarterly Visual Observation	Copper Total Micrograms/L (ug/L) Quarterly Grab	Zinc 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
Week	Monitoring Point	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3
Limit Set		ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit
1-T	4/2/19	A	A	No	A	A	<2	1	0.0166	<0.481	<9.62	<0.481
Minimum			A BM: >= 5.0 (RO)									
Average		A BM: <= 25			A BM: <= 14	A BM: <= 117						
Maximum			A BM: <= 9.0 (RO)									
Month 1 Average							<2 <= 37	1 <= 27	0.0166 <= 4.9	<0.481 <= 16	<9.62 <= 71	<0.481 <= 14
Month 2 Average							M <= 37	M <= 27	M <= 4.9	M <= 16	M <= 71	M <= 14
Month 3 Average							M <= 37	M <= 27	M <= 4.9	M <= 16	M <= 71	M <= 14

Reporting Codes Used: A - Consistent Attainment Of Benchmark, B - Below Detection Limit/No Detection, M - Monitoring Is Conditional/Not Req This MP

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

8/5/2019 3:36:59 PM

Signature

Date





Week	Monitoring Point	Phenol Micrograms/L (ug/L) Quarterly Grab	Zinc Total Micrograms/L (ug/L) Quarterly Grab	pH Standard Units Quarterly Grab
		SL3	SL3	SL3
	Limit Set	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit
1-T	4/2/19	<0.481	4.99	6.29
	Minimum			6.29 >= 6.0 (RO)
	Average			
	Maximum			6.29 <= 9.0 (RO)
	Month 1 Average	<0.481 <= 15	4.99 <= 110	
	Month 2 Average	M <= 15	M <= 110	
	Month 3 Average	M <= 15	M <= 110	



## Leachate Field and Analytical Data



### Leachate Monitoring Activities 2nd Quarter 2019

Station ID	Date	Activity	Sample ID	Comment
LS-CSW	4/2/19	Special Investigation	LCSW190402I	
LS-CSW	4/4/19	Special Investigation - Arsenic Speciation	LCSW190404I	
LS-CSW	5/6/19	Special Investigation	LCSW190506I	
LS-CSW	5/6/19	Special Investigation - Arsenic Speciation	LCSW190506I-2	
LS-LEPS	4/2/19	Monthly Characterization Sample	LEPS190402M	
LS-LEPS	4/4/19	Special Investigation - Arsenic Speciation	LEPS190404I	
LS-LEPS	5/8/19	Monthly Characterization Sample	LEPS190508M	
LS-LEPS	6/5/19	Monthly Characterization Sample	LEPS190604M	
LS-LEPS	6/6/19	Special Investigation - Arsenic Speciation	LEPS190606I	
LS-LEPS	4/3/19	Permit Sample	LEPS190402P	
LS-LEPS	4/9/19	Permit Sample	LEPS190409P	
LS-LEPS	4/17/19	Permit Sample	LEPS190417P	
LS-LEPS	4/23/19	Permit Sample	LEPS190423P	
LS-LEPS	5/2/19	Permit Sample	LEPS190502P	
LS-LEPS	5/8/19	Permit Sample	LEPS190508P	
LS-LEPS	5/14/19	Permit Sample	LEPS190514P	
LS-LEPS	5/21/19	Permit Sample	LEPS190521P	
LS-LEPS	5/30/19	Permit Sample	LEPS190530P	
LS-LEPS	6/4/19	Permit Sample	LEPS190604P	
LS-LEPS	6/4/19	QA/QC Sample	LEPS190604D	Field Duplicate
LS-LEPS	6/11/19	Permit Sample	LEPS190611P	
LS-LEPS	6/18/19	Permit Sample	LEPS190618P	
LS-LEPS	6/26/19	Permit Sample	LEPS190626P	
LS-LIF	4/3/19	Special Investigation	LIF-190403I	
LS-LIF	5/6/19	Special Investigation	LIF-190506I	
LS-LIF	5/6/19	Special Investigation - Arsenic Speciation	LIF-190506I-2	
LS-LIF	6/3/19	Special Investigation	LIF-190603I	
LS-LIF	6/6/19	Special Investigation - Arsenic Speciation	LIF-190606I	
LS-MH46N	4/3/19	Monthly Characterization Sample	L46N190403M	
LS-MH46N	5/9/19	Monthly Characterization Sample	L46N190509M	
LS-MH46N	6/5/19	Monthly Characterization Sample	L46N190605M	
LS-MH5	4/2/19	Special Investigation	LMH5190402I	
LS-MH5	4/4/19	Special Investigation - Arsenic Speciation	LMH5190404I	
LS-PS1A	4/2/19	Special Investigation	LP1A190402I	
LS-PS1A	4/4/19	Special Investigation - Arsenic Speciation	LP1A190404I	
LS-PS1A	5/6/19	Special Investigation	LP1A190506I	
LS-PS1A	5/6/19	Special Investigation - Arsenic Speciation	LP1A190506I-2	
LS-PS1A	6/3/19	Special Investigation	LP1A190603I	
LS-PS1A	6/6/19	Special Investigation - Arsenic Speciation	LP1A190606I	



Environmental Monitoring Data

Data Collected from April 1, 2019 to June 30, 2019  
 Cedar Hills Landfill --- Leachate Field Data  
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	pH (Field)  (std. Units)	Conductance (Field)  (umho/cm)	Temperature   (o C)
LS-A567	6/3/2019	L567190603I	8.25	24581	29.3
LS-A567	5/3/2019	LP567190503I	8.54	22285	18.8
LS-A567	5/3/2019	LP567190503I-2	8.54	22285	18.8
LS-A567	6/6/2019	LP567190606I	8.23	24904	31.2
LS-CSW	5/6/2019	CSW190506I	7.92	4221	14.6
LS-CSW	5/6/2019	CSW190506I-2	7.92	4221	14.6
LS-CSW	4/4/2019	LCSW190404I	8.25	13054	13.9
LS-CSW	5/6/2019	LCSW190506I	7.92	4221	14.6
LS-CSW	5/6/2019	LCSW190506I-2	7.92	4221	14.6
LS-LEPS	4/2/2019	LEPS190402M	8.75	7352	11.8
LS-LEPS	4/2/2019	LEPS190402P	8.75	7352	11.8
LS-LEPS	4/4/2019	LEPS190404I	8.85	7367	11.1
LS-LEPS	4/9/2019	LEPS190409P	8.75	8610	11.8
LS-LEPS	4/17/2019	LEPS190417P	8.63	6120	12.4
LS-LEPS	4/23/2019	LEPS190423P	8.67	5390	11.7
LS-LEPS	5/2/2019	LEPS190502P	8.57	5630	11.9
LS-LEPS	5/8/2019	LEPS190508M	8.61	6540	6.1
LS-LEPS	5/8/2019	LEPS190508P	8.61	6540	6.1
LS-LEPS	5/14/2019	LEPS190514P	8.44	7260	16.2
LS-LEPS	5/21/2019	LEPS190521P	8.5	8430	16.7
LS-LEPS	5/30/2019	LEPS190530P	8.52	9170	15.8
LS-LEPS	6/4/2019	LEPS190604D	8.57	9819	18.8
LS-LEPS	6/4/2019	LEPS190604M	8.57	9819	18.8
LS-LEPS	6/4/2019	LEPS190604P	8.57	9819	18.8
LS-LEPS	6/6/2019	LEPS190606I	8.58	9991	18.3
LS-LEPS	6/11/2019	LEPS190611P	8.54	10150	20.5
LS-LEPS	6/18/2019	LEPS190618P	8.49	13210	19.1
LS-LEPS	6/26/2019	LEPS190626P	8.67	11320	19.1
LS-LIF	4/3/2019	LIF-190403I	8.16	24268	26.8
LS-LIF	5/6/2019	LIF-190506I	8.29	24894.0	28.5
LS-LIF	5/6/2019	LIF-190506I-2	8.29	24894.0	28.5
LS-LIF	6/3/2019	LIF-190603I	8.16	20422.0	25.2
LS-LIF	6/6/2019	LIF-190606I	8.05	27743.0	34.7
LS-MH46N	4/3/2019	L46N190403M	7.2	9610.0	20
LS-MH46N	5/9/2019	L46N190509M	7.13	10250.0	27.4
LS-MH46N	6/5/2019	L46N190605M	7.17	10700.0	25.6

Environmental Monitoring Data

Data Collected from April 1, 2019 to June 30, 2019  
 Cedar Hills Landfill --- Leachate Conventional Data  
 Contact Person: Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	Alkalinity, Total (CaCO3) (mg/L)	Ammonia, (NH3 as N) (mg/L)	Biological Oxygen Demand (mg/L)	Chemical Oxygen Demand (mg/L)	Chloride (mg/L)	Coliforms, Fecal (CFU/100mL)	Coliforms, Total (CFU/100mL)	Cyanide (mg/L)	Fluoride (mg/L)	Nitrate+Nitrite (NO3+NO2 as N) (mg/L)
LS-LEPS	4/2/2019	LEPS190402M	2820	396	87.7	1160	704	330 H	6800 H	0.0086 ST	1 U	1.64
LS-LEPS	5/8/2019	LEPS190508M	2440	321	60.3	937	594	310 H	8400 H	0.008 SU	0.34 T	0.055 T
LS-LEPS	6/4/2019	LEPS190604M	3920	481	100	1140	966	80 H	2800 H	0.008 SU	0.43 T	0.15 T
LS-MH46N	4/3/2019	L46N190403M	2750	355	46.3	1510	1400	570	4200	0.011 ST	2 U	0.028 HT
LS-MH46N	5/9/2019	L46N190509M	2880	446	102	1540	1630	5200	29000	0.008 SU	1.5 T	0.07 T
LS-MH46N	6/5/2019	L46N190605M	2980	424	92.9	1690	1640	1 U	900	0.02 SU	1.24	0.14 T
LS-PS2A	4/3/2019	LP2A190403M	945	127	26.3	733	412	1 U	23000	0.008 SU	1 U	31.4
LS-PS2A	6/5/2019	LP2A190605M	42.1	7.79	5.14	28.4	16.5	1 U	30	0.008 U	0.058 T	3.06
LS-PS2A	5/9/2019	LPS2190509M	88.2	10.9	4.27	35.8	13.9	1 U	63	0.008 U	0.2 U	1.06
LS-V1A	4/2/2019	LV1A190402M	6140	924	2160	5180 S	1490	110000 H	770000 H	0.302 S	5 U	0.23 T
LS-V1A	5/8/2019	LV1A190508M	6020	845	1760	4340 S	1500	92000	550000	0.013 ST	5 U	0.257
LS-V1A	6/5/2019	LV1A190605M	6080	746	1980	4720 S	1470	52000 C	2300000	0.016 SU	1 U	0.287



Environmental Monitoring Data

Data Collected from April 1, 2019 to June 30, 2019  
 Cedar Hills Landfill --- Leachate Conventional Data  
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	Phosphorus, Sol. Reactive (mg/L)	Specific Conductance (umho/cm)	Sulfate (SO4) (mg/L)	Sulfide Total (mg/L)	Total Fats, Oils and Grease (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Total Organic Carbon (mg/L)	Total Suspended Solids (mg/L)	Total Volatile Solids (mg/L)	Total Volatile Suspended Solids (mg/L)
LS-LEPS	4/2/2019	LEPS190402M	0.733	7090	37.7	0.66 T	2.4 BT	561	278 S	232	1090	188 B
LS-LEPS	5/8/2019	LEPS190508M	0.358	6140	47.4	0.0828	1.5 U	496	250	92.5	1080	95
LS-LEPS	6/4/2019	LEPS190604M	2.56	9330	33.8	0.204	1.6 U	760	274 S	208	1290	200
LS-MH46N	4/3/2019	L46N190403M	3	9340	2 U	1.12	2.5 BT	527	496 S	2.9	1120	1.2 B
LS-MH46N	5/9/2019	L46N190509M	2.72	9900	1.2 T	1.1	2.5 JT	597	549 S	1.3	1450	1.4
LS-MH46N	6/5/2019	L46N190605M	3.12	10300	6.72	0.494	2.8 T	620	495	0.5 U	1100	0.5 U
LS-PS2A	4/3/2019	LP2A190403M	0.165	3820	14.7	0.25 U	1.8 BT	184	238 S	14	564	7.43 B
LS-PS2A	6/5/2019	LP2A190605M	0.0157	288	50	0.014 T	1.8 T	8.62	10.2	0.9 T	51.3	0.8 BT
LS-PS2A	5/9/2019	LPS2190509M	0.00492	373	57.7	0.027 T	1.4 U	15.3	12.8	3.8	59.9	2.2
LS-V1A	4/2/2019	LV1A190402M	3.66	15100	35.7	0.711	7.9 B	1350 S	1750 S	28.9	3160	23.6 B
LS-V1A	5/8/2019	LV1A190508M	6.08	14500	26	0.675	4.4 JT	1240 S	1400 S	37.5	3870	27.5
LS-V1A	6/5/2019	LV1A190605M	7.4	14700	33.1	0.653	6.7	1320 S	1520 S	34	3020	29

Environmental Monitoring Data

Data Collected from April 1, 2019 to June 30, 2019  
 Cedar Hills Landfill --- Leachate Metals Data  
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	Aluminum, total (mg/L)	Antimony, total (mg/L)	Arsenic, total (mg/L)	Barium, total (mg/L)	Beryllium, total (mg/L)	Cadmium, total (mg/L)	Calcium, total (mg/L)	Chromium, total (mg/L)	Cobalt, total (mg/L)	Copper, total (mg/L)
LS-A567	6/3/2019	L567190603I	0.474	0.0129	0.321	0.456	0.001 U	0.0005 U	48.8	0.251	0.0688	0.00203
LS-A567	5/3/2019	LP567190503I	0.83	0.0146	0.324	0.465	0.001 U	0.0005 U	58	0.221	0.0659	0.00628
LS-CSW	5/6/2019	LCSW190506I	1.2	0.00353	0.0124	0.123	0.001 U	0.0005 U	183	0.0349	0.0112	0.00868
LS-CSW	4/2/2019	LMH5190402I	0.467	0.0139	0.301	0.401	0.001 U	0.0005 U	48.3	0.198	0.0645	0.00528
LS-LEPS	4/2/2019	LEPS190402P	0.585	0.0123	0.125	0.0994	0.001 U	0.0005 U	52.2	0.0869	0.0218	0.00903
LS-LEPS	4/9/2019	LEPS190409P	0.788	0.0146	0.145	0.113	0.001 U	0.0005 U	56.2	0.109	0.0248	0.00922
LS-LEPS	4/17/2019	LEPS190417P	0.97	0.0112	0.107	0.0906	0.001 U	0.0005 U	49.4	0.0749	0.0182	0.00877
LS-LEPS	4/23/2019	LEPS190423P	0.89	0.00986	0.0913	0.08	0.001 U	0.0005 U	45.7	0.0623	0.0158	0.021
LS-LEPS	5/2/2019	LEPS190502P	0.655	0.0101	0.0902 D	0.0854	0.001 U	0.0005 U	61.4	0.0616	0.0165	0.0189
LS-LEPS	5/8/2019	LEPS190508M	0.277	0.0115	0.106	0.0811	0.001 U	0.0005 U	58.1	0.074	0.0178	0.0113
LS-LEPS	5/8/2019	LEPS190508P	0.262	0.0115	0.108	0.082	0.001 U	0.0005 U	59	0.075	0.0178	0.0119
LS-LEPS	5/14/2019	LEPS190514P	0.242	0.0131	0.127	0.0853	0.001 U	0.0005 U	56.6	0.084	0.0196	0.00869
LS-LEPS	5/21/2019	LEPS190521P	0.429	0.0144	0.156	0.101	0.001 U	0.0005 U	55.1	0.0948	0.0235	0.00847
LS-LEPS	5/30/2019	LEPS190530P	0.373	0.0156	0.17	0.0962	0.001 U	0.0005 U	51.5	0.105	0.0241	0.00666
LS-LEPS	6/4/2019	LEPS190604M	0.372	0.0161	0.192	0.115	0.001 U	0.0005 U	57.1	0.116	0.026	0.00628
LS-LEPS	6/4/2019	LEPS190604P	0.409	0.0161	0.183	0.11	0.001 U	0.0005 U	53.2	0.118	0.0252	0.00639
LS-LEPS	6/11/2019	LEPS190611P	0.566	0.0189	0.211	0.118	0.001 U	0.0005 U	58.9	0.134	0.0295	0.0075
LS-LEPS	6/18/2019	LEPS190618P	0.368	0.0179	0.225	0.124	0.001 U	0.0005 U	57.5	0.127	0.0297	0.0052
LS-LEPS	6/26/2019	LEPS190626P	0.422	0.0203	0.243	0.135	0.001 U	0.0005 U	56.9	0.144	0.0328	0.00563
LS-LIF	4/3/2019	LIF-190403I	0.908	0.0217	0.35	0.293	0.001 U	0.0005 U	122	0.296	0.0695	0.00725
LS-LIF	5/6/2019	LIF-190506I	0.827	0.0226	0.35	0.311	0.001 U	0.0005 U	79.6	0.331	0.067	0.00561
LS-LIF	6/3/2019	LIF-190603I	0.698	0.0221	0.295	0.28	0.001 U	0.0005 U	75	0.291	0.0567	0.00548
LS-MH46N	4/3/2019	L46N190403M	0.246	0.003 U	0.0789	0.327	0.001 U	0.0005 U	72.9	0.0886	0.0294	0.0203
LS-MH46N	5/9/2019	L46N190509M	0.05 U	0.003 U	0.0871	0.383	0.001 U	0.0005 U	74.9	0.0987	0.0295	0.002 U
LS-MH46N	6/5/2019	L46N190605M	0.05 U	0.003 U	0.0919	0.425	0.001 U	0.0005 U	78.9	0.101	0.0315	0.002 U
LS-MH5	4/2/2019	LCSW190402I	2.5	0.00833	0.0326	0.225	0.001 U	0.0005 U	202	0.0984	0.0296	0.019
LS-PS1A	4/2/2019	LP1A190402I	0.0912	0.00833	0.0511	0.0974	0.001 U	0.0005 U	35.6	0.0179	0.00809	0.00838
LS-PS1A	5/6/2019	LP1A190506I	0.0785	0.0089	0.0581	0.103	0.001 U	0.0005 U	35.6	0.019	0.00819	0.00518
LS-PS1A	6/3/2019	LP1A190603I	0.0547	0.0184	0.123	0.191	0.001 U	0.0005 U	55.1	0.0365	0.0167	0.00349
LS-PS2A	4/3/2019	LP2A190403M	0.116	0.00925	0.0263	0.0297	0.001 U	0.0005 U	24.4	0.0244	0.0175	0.0568
LS-PS2A	6/5/2019	LP2A190605M	0.05 U	0.00323	0.00364	0.00847	0.001 U	0.0005 U	14.7	0.002 U	0.000621	0.0123
LS-PS2A	5/9/2019	LPS2190509M	0.0509	0.00404	0.00473	0.0378	0.001 U	0.0005 U	24.5	0.002 U	0.000644	0.0108

Environmental Monitoring Data

Data Collected from April 1, 2019 to June 30, 2019  
 Cedar Hills Landfill --- Leachate Metals Data  
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	Iron, total (mg/L)	Lead, total (mg/L)	Magnesium, total (mg/L)	Manganese, total (mg/L)	Mercury, total (mg/L)	Nickel, total (mg/L)	Potassium, total (mg/L)	Selenium, total (mg/L)	Silver, total (mg/L)	Sodium, total (mg/L)
LS-A567	6/3/2019	L567190603I	3.4	0.0012	88.1	0.252	0.0001 U	0.274	780	0.005 U	0.0004 U	2670 D
LS-A567	5/3/2019	LP567190503I	4.31	0.00257	87.1	0.321	0.0001 U	0.266	751	0.005 U	0.0004 U	2580 D
LS-CSW	5/6/2019	LCSW190506I	6.75	0.00136	54.8	1.34	0.0001 U	0.0644	156	0.005 U	0.0004 U	356
LS-CSW	4/2/2019	LMH5190402I	3.49	0.00196	83.6	0.277	0.0001 U	0.255	735	0.005 U	0.0004 U	2460
LS-LEPS	4/2/2019	LEPS190402P	5.25	0.0018	42.9	0.512	0.0001 U	0.089	265	0.005 U	0.0004 U	717
LS-LEPS	4/9/2019	LEPS190409P	7.01	0.00211	48.3	0.526	0.0001 U	0.106	299	0.005 U	0.0004 DU	843
LS-LEPS	4/17/2019	LEPS190417P	5.91	0.00201	34.9	0.536	0.0001 U	0.0761	216	0.005 U	0.0004 U	603
LS-LEPS	4/23/2019	LEPS190423P	4.99	0.00224	28.9	0.493	0.0001 U	0.0619	176	0.005 U	0.0004 U	487
LS-LEPS	5/2/2019	LEPS190502P	5.26	0.00187	31.9	0.577	0.0001 U	0.0714	185	0.005 U	0.0004 U	512
LS-LEPS	5/8/2019	LEPS190508M	4.87	0.00158	38.3	0.421	0.0001 U	0.0771	216	0.005 U	0.0004 U	591
LS-LEPS	5/8/2019	LEPS190508P	4.98	0.00165	38.6	0.428	0.0001 U	0.0791	216	0.005 U	0.0004 U	594
LS-LEPS	5/14/2019	LEPS190514P	5.07	0.00152	42	0.379	0.0001 U	0.0872	245	0.005 U	0.0004 U	672
LS-LEPS	5/21/2019	LEPS190521P	5.22	0.00161	47.2	0.383	0.0001 U	0.0992	283	0.005 U	0.0004 U	792
LS-LEPS	5/30/2019	LEPS190530P	5.03	0.0015	49.4	0.298	0.0001 U	0.107	310	0.005 U	0.0004 U	766
LS-LEPS	6/4/2019	LEPS190604M	5.3	0.00164	53.6	0.354	0.0001 U	0.115	346	0.005 U	0.0004 U	961
LS-LEPS	6/4/2019	LEPS190604P	5.03	0.00159	49.6	0.335	0.0001 U	0.11	321	0.005 U	0.0004 U	891
LS-LEPS	6/11/2019	LEPS190611P	5.71	0.00207	57.2	0.374	0.0001 U	0.128	369	0.005 U	0.0004 U	1040
LS-LEPS	6/18/2019	LEPS190618P	5.13	0.00152	58.3	0.325	0.0001 U	0.135	399	0.005 U	0.0004 U	1110
LS-LEPS	6/26/2019	LEPS190626P	5.29	0.00163	63.1	0.356	0.0001 U	0.144	429	0.005 U	0.0004 U	1190
LS-LIF	4/3/2019	LIF-190403I	18.4	0.00391	120	1.02	0.0001 U	0.279	905	0.00517	0.0004 U	2520
LS-LIF	5/6/2019	LIF-190506I	13.7	0.00383	121	0.604	0.0001 U	0.281	890 D	0.005 U	0.0004 U	2570 D
LS-LIF	6/3/2019	LIF-190603I	8.81	0.00309	98.6	0.551	0.0001 U	0.238	756	0.005 U	0.0004 U	2050
LS-MH46N	4/3/2019	L46N190403M	6.02	0.001 U	43.6	0.655	0.0001 U	0.115	310	0.005 U	0.0004 U	1070
LS-MH46N	5/9/2019	L46N190509M	2.34	0.001 U	47.2	0.434	0.0001 U	0.122	328	0.005 U	0.0004 U	1110
LS-MH46N	6/5/2019	L46N190605M	2.41	0.001 U	48.6	0.463	0.0001 U	0.135	344	0.005 U	0.0004 U	1180
LS-MH5	4/2/2019	LCSW190402I	12.5	0.00447	142	1.2	0.0001 U	0.176	403	0.005 U	0.0004 U	1010
LS-PS1A	4/2/2019	LP1A190402I	1.23	0.001 U	18.1	0.328	0.0001 U	0.0314	88.7	0.005 U	0.0004 U	310
LS-PS1A	5/6/2019	LP1A190506I	0.961	0.001 U	18.3	0.318	0.0001 U	0.0313	86.4	0.005 U	0.0004 U	306
LS-PS1A	6/3/2019	LP1A190603I	0.847	0.001 U	30.8	0.464	0.0001 U	0.0627	163	0.005 U	0.0004 U	590
LS-PS2A	4/3/2019	LP2A190403M	6.23	0.001 U	10.5	0.356	0.0001 U	0.0571	136	0.005 U	0.0004 U	466
LS-PS2A	6/5/2019	LP2A190605M	1.1	0.001 U	5.86	0.0535	0.0001 U	0.00624	5.8	0.005 U	0.0004 U	17.3
LS-PS2A	5/9/2019	LPS2190509M	3.38	0.001 U	7.19	0.136	0.0001 U	0.00637	7.96	0.005 U	0.0004 U	15.1

Environmental Monitoring Data

Data Collected from April 1, 2019 to June 30, 2019  
 Cedar Hills Landfill --- Leachate Metals Data  
 Contact Person: Sedy Jimenez (206) 477-5224

Site	Date	Sample ID	Thallium, total (mg/L)	Tin, total (mg/L)	Vanadium, total (mg/L)	Zinc, total (mg/L)
LS-A567	6/3/2019	L567190603I	0.001 U	0.0464	0.179	0.0369
LS-A567	5/3/2019	LP567190503I	0.001 U	0.0413	0.169	0.0768
LS-CSW	5/6/2019	LCSW190506I	0.001 U	0.005 U	0.0133	0.249
LS-CSW	4/2/2019	LMH5190402I	0.001 U	0.0368	0.154	0.0853
LS-LEPS	4/2/2019	LEPS190402P	0.001 U	0.00832	0.0289	0.217
LS-LEPS	4/9/2019	LEPS190409P	0.001 U	0.0112	0.0353	0.249
LS-LEPS	4/17/2019	LEPS190417P	0.001 U	0.00777	0.0267	0.195
LS-LEPS	4/23/2019	LEPS190423P	0.001 U	0.005 U	0.0231	0.192
LS-LEPS	5/2/2019	LEPS190502P	0.001 U	0.00674	0.0228	0.206 D
LS-LEPS	5/8/2019	LEPS190508M	0.001 U	0.00922	0.0253	0.168
LS-LEPS	5/8/2019	LEPS190508P	0.001 U	0.0109	0.0251	0.172
LS-LEPS	5/14/2019	LEPS190514P	0.001 U	0.00991	0.0278	0.159
LS-LEPS	5/21/2019	LEPS190521P	0.001 U	0.0117	0.0337	0.187
LS-LEPS	5/30/2019	LEPS190530P	0.001 U	0.0148	0.0357	0.144
LS-LEPS	6/4/2019	LEPS190604M	0.001 U	0.012	0.0401	0.174
LS-LEPS	6/4/2019	LEPS190604P	0.001 U	0.0122	0.0375	0.161
LS-LEPS	6/11/2019	LEPS190611P	0.001 U	0.0164	0.0428	0.173
LS-LEPS	6/18/2019	LEPS190618P	0.001 U	0.0137	0.0436	0.135
LS-LEPS	6/26/2019	LEPS190626P	0.001 DU	0.0162	0.05	0.151
LS-LIF	4/3/2019	LIF-190403I	0.001 U	0.0398	0.0933	0.895
LS-LIF	5/6/2019	LIF-190506I	0.001 U	0.0359	0.0937	0.55
LS-LIF	6/3/2019	LIF-190603I	0.001 U	0.0325	0.0794	0.374
LS-MH46N	4/3/2019	L46N190403M	0.001 U	0.005 U	0.127	0.0192
LS-MH46N	5/9/2019	L46N190509M	0.001 U	0.005 U	0.137	0.00561
LS-MH46N	6/5/2019	L46N190605M	0.001 U	0.005 U	0.144	0.005 U
LS-MH5	4/2/2019	LCSW190402I	0.001 U	0.00686	0.0361	0.676
LS-PS1A	4/2/2019	LP1A190402I	0.001 U	0.005 U	0.0217	0.0105
LS-PS1A	5/6/2019	LP1A190506I	0.001 U	0.005 U	0.0218	0.0101
LS-PS1A	6/3/2019	LP1A190603I	0.001 U	0.005 U	0.0438	0.00972
LS-PS2A	4/3/2019	LP2A190403M	0.001 U	0.043	0.00674	0.107
LS-PS2A	6/5/2019	LP2A190605M	0.001 U	0.005 U	0.00164	0.0191
LS-PS2A	5/9/2019	LPS2190509M	0.001 U	0.005 U	0.00155	0.0265

Environmental Monitoring Data

Data Collected from April 1, 2019 to June 30, 2019

Cedar Hills Landfill --- Leachate VOAs Data

Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	1,1,1,2-Tetrachloro-ethane 630-20-6 (ug/L)	1,1,1-Trichloro-ethane 71-55-6 (ug/L)	1,1,2,2-Tetrachloro-ethane 79-34-5 (ug/L)	1,1,2-Trichloro-ethane 79-00-5 (ug/L)	1,1-Dichloro-ethane 75-34-3 (ug/L)	1,1-Dichloro-ethene 75-35-4 (ug/L)	1,1-Dichloro-propene 563-58-6 (ug/L)	1,2,3-Trichloro-propane 96-18-4 (ug/L)	1,2-Dibromo-3-Chloropropane 96-12-8 (ug/L)
LS-LEPS	4/2/2019	LEPS190402M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U
LS-LEPS	5/8/2019	LEPS190508M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U
LS-LEPS	6/4/2019	LEPS190604M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U
LS-MH46N	4/3/2019	L46N190403M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U
LS-MH46N	5/9/2019	L46N190509M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U
LS-MH46N	6/5/2019	L46N190605M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U
LS-PS2A	4/3/2019	LP2A190403D	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U
LS-PS2A	4/3/2019	LP2A190403M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U
LS-PS2A	6/5/2019	LP2A190605M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U
LS-PS2A	5/9/2019	LPS2190509M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U
LS-V1A	4/2/2019	LV1A190402M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U
LS-V1A	5/8/2019	LV1A190508M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U
LS-V1A	6/5/2019	LV1A190605M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U
FIELD BLANK	6/5/2019	L46N190605F	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U
VOA TRIP BLANK	4/3/2019	VTRP190403X	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
VOA TRIP BLANK	4/2/2019	VTRP190403Y	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
VOA TRIP BLANK	5/8/2019	VTRP190508X2	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
VOA TRIP BLANK	5/8/2019	VTRP190509Z	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
VOA TRIP BLANK	6/3/2019	VTRP190604X2	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

Environmental Monitoring Data

Data Collected from April 1, 2019 to June 30, 2019

Cedar Hills Landfill --- Leachate VOAs Data

Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	1,2-Dibromo-ethane 106-93-4 (ug/L)	1,2-Dichloro-benzene 95-50-1 (ug/L)	1,2-Dichloro-ethane 107-06-2 (ug/L)	1,2-Dichloro-propane 78-87-5 (ug/L)	1,3 Dichloro-benzene 541-73-1 (ug/L)	1,3-Dichloro-propane 142-28-9 (ug/L)	1,4-Dichloro-benzene 106-46-7 (ug/L)	2,2-Dichloro-propane 594-20-7 (ug/L)	2-Butanone 78-93-3 (ug/L)
LS-LEPS	4/2/2019	LEPS190402M	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2.5 U
LS-LEPS	5/8/2019	LEPS190508M	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2.5 U
LS-LEPS	6/4/2019	LEPS190604M	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2.5 U
LS-MH46N	4/3/2019	L46N190403M	1 U	2.75	1 U	1 U	1 U	1 U	11.7	1 U	2.5 U
LS-MH46N	5/9/2019	L46N190509M	1 U	2.71	1 U	1 U	1 U	1 U	11.2	1 U	2.5 U
LS-MH46N	6/5/2019	L46N190605M	1 U	2.47	1 U	1 U	1 U	1 U	10.1	1 U	3.82 JT
LS-PS2A	4/3/2019	LP2A190403D	1 U	1 U	1 U	1 U	1 U	1 U	1.77 JT	1 U	70.3
LS-PS2A	4/3/2019	LP2A190403M	1 U	1 U	1 U	1 U	1 U	1 U	1.82 JT	1 U	54.9
LS-PS2A	6/5/2019	LP2A190605M	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2.5 U
LS-PS2A	5/9/2019	LPS2190509M	1 U	1 U	1 U	1 U	1 U	1 U	1.34 JT	1 U	90.6
LS-V1A	4/2/2019	LV1A190402M	1 U	1 U	2	1 U	1 U	1 U	1.49 JT	1 U	4320 D
LS-V1A	5/8/2019	LV1A190508M	1 U	1 U	2.48	1 U	1 U	1 U	1.15 JT	1 U	4000 D
LS-V1A	6/5/2019	LV1A190605M	1 U	1 U	3.08	1 U	1 U	1 U	1.27 JT	1 U	5710 D
FIELD BLANK	6/5/2019	L46N190605F	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	23.5
VOA TRIP BLANK	4/3/2019	VTRP190403X	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U
VOA TRIP BLANK	4/2/2019	VTRP190403Y	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U
VOA TRIP BLANK	5/8/2019	VTRP190508X2	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U
VOA TRIP BLANK	5/8/2019	VTRP190509Z	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U
VOA TRIP BLANK	6/3/2019	VTRP190604X2	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U

Environmental Monitoring Data

Data Collected from April 1, 2019 to June 30, 2019  
 Cedar Hills Landfill --- Leachate VOAs Data  
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	2-Hexanone 591-78-6 (ug/L)	2-Methyl-1-propanol 78-83-1 (ug/L)	3-Chloro-propene 107-05-1 (ug/L)	4-Methyl-2-Pentanone 108-10-1 (ug/L)	Acetone 67-64-1 (ug/L)	Acetonitrile 75-05-8 (ug/L)	Acrolein 107-02-8 (ug/L)	Acrylonitrile 107-13-1 (ug/L)	Benzene 71-43-2 (ug/L)
LS-LEPS	4/2/2019	LEPS190402M	5 U	50 U	1 U	25 U	25 U	50 U	25 U	0.35 U	1 U
LS-LEPS	5/8/2019	LEPS190508M	5 U	50 U	1 U	25 U	25 U	50 U	25 U	0.35 U	1 U
LS-LEPS	6/4/2019	LEPS190604M	5 U	50 U	1 U	25 U	103	50 U	25 U	0.35 U	1 U
LS-MH46N	4/3/2019	L46N190403M	5 U	50 U	1 U	25 U	25 U	50 U	25 U	0.35 U	4.2
LS-MH46N	5/9/2019	L46N190509M	5 U	50 U	1 U	25 U	25 U	54.2 JT	25 U	0.35 U	4.07
LS-MH46N	6/5/2019	L46N190605M	5 U	50 U	1 U	25 U	43.6 JT	58.3 JT	25 U	0.35 U	3.93
LS-PS2A	4/3/2019	LP2A190403D	5 U	50 U	1 U	25 U	54.5	50 U	25 U	0.35 U	1 U
LS-PS2A	4/3/2019	LP2A190403M	5 U	50 U	1 U	25 U	25 U	50 U	25 U	0.35 U	1 U
LS-PS2A	6/5/2019	LP2A190605M	5 U	50 U	1 U	25 U	25 U	50 U	25 U	0.35 U	1 U
LS-PS2A	5/9/2019	LPS2190509M	5 U	50 U	1 U	25 U	126	50 U	25 U	0.35 U	1 U
LS-V1A	4/2/2019	LV1A190402M	8.41 JT	54.7 JT	1 U	38.3 JT	4990 D	50 U	25 U	0.35 U	1 U
LS-V1A	5/8/2019	LV1A190508M	8.18 JT	74.1 JT	1 U	38.1 JT	5000 D	86.2 JT	25 U	0.35 U	1 U
LS-V1A	6/5/2019	LV1A190605M	9.79 JLT	133	1 U	51.6	6720 D	116	25 U	0.35 U	1 U
FIELD BLANK	6/5/2019	L46N190605F	5 U	50 U	1 U	25 U	25 U	50 U	25 U	0.35 U	1 U
VOA TRIP BLANK	4/3/2019	VTRP190403X	0.5 U	5 U	0.1 U	2.5 U	2.5 U	5 U	2.5 U	0.035 U	0.1 U
VOA TRIP BLANK	4/2/2019	VTRP190403Y	0.5 U	5 U	0.1 U	2.5 U	2.5 U	5 U	2.5 U	0.035 U	0.1 U
VOA TRIP BLANK	5/8/2019	VTRP190508X2	0.5 U	5 U	0.1 U	2.5 U	3.25 JT	5 U	2.5 U	0.035 U	0.1 U
VOA TRIP BLANK	5/8/2019	VTRP190509Z	0.5 U	5 U	0.1 U	2.5 U	3.61 JT	5 U	2.5 U	0.035 U	0.1 U
VOA TRIP BLANK	6/3/2019	VTRP190604X2	0.5 U	5 U	0.1 U	2.5 U	2.5 U	5 U	2.5 U	0.035 U	0.1 U

Environmental Monitoring Data

Data Collected from April 1, 2019 to June 30, 2019  
 Cedar Hills Landfill --- Leachate VOAs Data  
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	Bromochloro- methane 74-97-5 (ug/L)	Bromodichloro- methane 75-27-4 (ug/L)	Bromoform 75-25-2 (ug/L)	Bromo-methane 74-83-9 (ug/L)	Carbon Disulfide 75-15-0 (ug/L)	Carbon Tetrachloride 56-23-5 (ug/L)	Chloro-benzene 108-90-7 (ug/L)	Chloro-dibromo- methane 124-48-1 (ug/L)	Chloroethane 75-00-3 (ug/L)
LS-LEPS	4/2/2019	LEPS190402M	1 U	2.5 U	5 U	1 U	1 U	2.5 U	1 U	5 U	1 U
LS-LEPS	5/8/2019	LEPS190508M	1 U	2.5 U	5 U	1 U	1 U	2.5 U	1 U	5 U	1 U
LS-LEPS	6/4/2019	LEPS190604M	1 U	2.5 U	5 U	1 U	1 U	2.5 U	1 U	5 U	1 U
LS-MH46N	4/3/2019	L46N190403M	1 U	2.5 U	5 U	1 U	1 U	2.5 U	2.61	5 U	1 U
LS-MH46N	5/9/2019	L46N190509M	1 U	2.5 U	5 U	1 U	1 U	2.5 U	2.52	5 U	1 U
LS-MH46N	6/5/2019	L46N190605M	1 U	2.5 U	5 U	1 U	1 U	2.5 U	2.27	5 U	1 U
LS-PS2A	4/3/2019	LP2A190403D	1 U	2.5 U	5 U	1 U	1 U	2.5 U	1 U	5 U	1 U
LS-PS2A	4/3/2019	LP2A190403M	1 U	2.5 U	5 U	1 U	1 U	2.5 U	1 U	5 U	1 U
LS-PS2A	6/5/2019	LP2A190605M	1 U	2.5 U	5 U	1 U	1 U	2.5 U	1 U	5 U	1 U
LS-PS2A	5/9/2019	LPS2190509M	1 U	2.5 U	5 U	1 U	1 U	2.5 U	1 U	5 U	1 U
LS-V1A	4/2/2019	LV1A190402M	1 U	2.5 U	5 U	1 U	1.02 JT	2.5 U	1 U	5 U	1 U
LS-V1A	5/8/2019	LV1A190508M	1 U	2.5 U	5 U	1 U	1 U	2.5 U	1 U	5 U	1 U
LS-V1A	6/5/2019	LV1A190605M	1 U	2.5 U	5 U	1 U	1 U	2.5 U	1 U	5 U	1 U
FIELD BLANK	6/5/2019	L46N190605F	1 U	2.5 U	5 U	1 U	1 U	2.5 U	1 U	5 U	1 U
VOA TRIP BLANK	4/3/2019	VTRP190403X	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
VOA TRIP BLANK	4/2/2019	VTRP190403Y	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
VOA TRIP BLANK	5/8/2019	VTRP190508X2	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
VOA TRIP BLANK	5/8/2019	VTRP190509Z	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
VOA TRIP BLANK	6/3/2019	VTRP190604X2	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



Environmental Monitoring Data

Data Collected from April 1, 2019 to June 30, 2019

Cedar Hills Landfill --- Leachate VOAs Data

Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	Chloroform 67-66-3 (ug/L)	Chloro-methane 74-87-3 (ug/L)	Chloroprene 126-99-8 (ug/L)	cis-1,2-Dichloro-ethene 156-59-2 (ug/L)	cis-1,3-Dichloro-propene 10061-01-5 (ug/L)	Dibromo-methane 74-95-3 (ug/L)	Dichloro-difluoro-methane 75-71-8 (ug/L)	Ethylbenzene 100-41-4 (ug/L)	m & p Xylenes mpx (ug/L)
LS-LEPS	4/2/2019	LEPS190402M	1 U	2.5 U	1 U	1 U	2.5 U	1 U	1 U	1 U	1 U
LS-LEPS	5/8/2019	LEPS190508M	1 U	2.5 U	1 U	1 U	2.5 U	1 U	1 U	1 U	1 U
LS-LEPS	6/4/2019	LEPS190604M	1 U	2.5 U	1 U	1 U	2.5 U	1 U	1 U	1 U	1 U
LS-MH46N	4/3/2019	L46N190403M	1 U	2.5 U	1 U	1.47 JT	2.5 U	1 U	1 U	48.7	48.5
LS-MH46N	5/9/2019	L46N190509M	1 U	2.5 U	1 U	1.68 JT	2.5 U	1 U	1 U	45.9	61
LS-MH46N	6/5/2019	L46N190605M	1 U	2.5 U	1 U	1.75 JT	2.5 U	1 U	1 U	42	55.2
LS-PS2A	4/3/2019	LP2A190403D	1 U	2.5 U	1 U	1 U	2.5 U	1 U	1 U	1 U	2.04
LS-PS2A	4/3/2019	LP2A190403M	1 U	2.5 U	1 U	1 U	2.5 U	1 U	1 U	1 U	2.19
LS-PS2A	6/5/2019	LP2A190605M	1 U	2.5 U	1 U	1 U	2.5 U	1 U	1 U	1 U	1 U
LS-PS2A	5/9/2019	LPS2190509M	1 U	2.5 U	1 U	1 U	2.5 U	1 U	1 U	1 U	2.61
LS-V1A	4/2/2019	LV1A190402M	1 U	2.5 U	1 U	1.38 JT	2.5 U	1 U	1 U	2.47	5.98
LS-V1A	5/8/2019	LV1A190508M	1 U	2.5 U	1 U	1.11 JT	2.5 U	1 U	1 U	1.45 JT	3.65
LS-V1A	6/5/2019	LV1A190605M	2.24	2.5 U	1 U	1.67 JT	2.5 U	1 U	1 U	1.76 JT	4.84
FIELD BLANK	6/5/2019	L46N190605F	1 U	2.5 U	1 U	1 U	2.5 U	1 U	1 U	1 U	1 U
VOA TRIP BLANK	4/3/2019	VTRP190403X	0.1 U	0.25 U	0.1 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	4/2/2019	VTRP190403Y	0.1 U	0.25 U	0.1 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	5/8/2019	VTRP190508X2	0.1 U	0.25 U	0.1 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	5/8/2019	VTRP190509Z	0.1 U	0.25 U	0.1 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	6/3/2019	VTRP190604X2	0.1 U	0.25 U	0.1 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U

Environmental Monitoring Data

Data Collected from April 1, 2019 to June 30, 2019

Cedar Hills Landfill --- Leachate VOAs Data

Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	Methyl Iodide 74-88-4 (ug/L)	Methyl Methacrylate 80-62-6 (ug/L)	Methylacrylonitrile 126-98-7 (ug/L)	Methylene Chloride 75-09-2 (ug/L)	o-Xylene 95-47-6 (ug/L)	Propionitrile 107-12-0 (ug/L)	Styrene 100-42-5 (ug/L)	Tetrachloroethene 127-18-4 (ug/L)	Toluene 108-88-3 (ug/L)
LS-LEPS	4/2/2019	LEPS190402M	1 U	2.5 U	1 U	25 U	1 U	5 U	1 U	1 U	1 U
LS-LEPS	5/8/2019	LEPS190508M	1 U	2.5 U	1 U	25 U	1 U	5 U	1 U	1 U	1 U
LS-LEPS	6/4/2019	LEPS190604M	1 U	2.5 U	1 U	25 U	1 U	5 U	1 U	1 U	2.37
LS-MH46N	4/3/2019	L46N190403M	1 U	2.5 U	1 U	25 U	3.42	5 U	1 U	1 U	4.19
LS-MH46N	5/9/2019	L46N190509M	1 U	2.5 U	1 U	25 U	3.62	5 U	1.34 JT	1 U	4.36
LS-MH46N	6/5/2019	L46N190605M	1 U	2.5 U	1 U	25 U	3.04	5 U	1.25 JT	1 U	3.73
LS-PS2A	4/3/2019	LP2A190403D	1 U	2.5 U	1 U	25 U	1.98 JT	5 U	1 U	1 U	1 U
LS-PS2A	4/3/2019	LP2A190403M	1 U	2.5 U	1 U	25 U	2.02	5 U	1 U	1 U	1 U
LS-PS2A	6/5/2019	LP2A190605M	1 U	2.5 U	1 U	25 U	1 U	5 U	1 U	1 U	1 U
LS-PS2A	5/9/2019	LPS2190509M	1 U	2.5 U	1 U	25 U	1.5 JT	5 U	1 U	1 U	1.18 JT
LS-V1A	4/2/2019	LV1A190402M	1 U	2.5 U	1 U	25 U	3.43	5 U	1 U	1 U	10.9
LS-V1A	5/8/2019	LV1A190508M	1 U	2.5 U	1 U	25 U	2.24	5 U	1 U	1 U	6.67
LS-V1A	6/5/2019	LV1A190605M	1 U	2.5 U	1 U	25 U	2.92	5 U	1 U	1 U	9.2
FIELD BLANK	6/5/2019	L46N190605F	1 U	2.5 U	1 U	25 U	1 U	5 U	1 U	1 U	1 U
VOA TRIP BLANK	4/3/2019	VTRP190403X	0.1 U	0.25 U	0.1 U	2.5 U	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	4/2/2019	VTRP190403Y	0.1 U	0.25 U	0.1 U	2.5 U	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	5/8/2019	VTRP190508X2	0.1 U	0.25 U	0.1 U	2.5 U	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	5/8/2019	VTRP190509Z	0.1 U	0.25 U	0.1 U	2.5 U	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	6/3/2019	VTRP190604X2	0.1 U	0.25 U	0.1 U	2.5 U	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U

Environmental Monitoring Data

Data Collected from April 1, 2019 to June 30, 2019

Cedar Hills Landfill --- Leachate VOAs Data

Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	trans-1,2-	trans-1,3-	trans-1,4-	Trichloro-ethene	Trichloro-fluoro-	Vinyl Acetate	Vinyl Chloride
			Dichloro-ethene	Dichloro-propene	Dichloro-2-butene		methane		
			156-60-5 (ug/L)	10061-02-6 (ug/L)	110-57-6 (ug/L)	79-01-6 (ug/L)	75-69-4 (ug/L)	108-05-4 (ug/L)	75-01-4 (ug/L)
LS-LEPS	4/2/2019	LEPS190402M	1 U	5 U	5 U	1 U	1 U	1 U	0.1 U
LS-LEPS	5/8/2019	LEPS190508M	1 U	5 U	5 U	1 U	1 U	1 U	0.1 U
LS-LEPS	6/4/2019	LEPS190604M	1 U	5 U	5 U	1 U	1 U	1 U	0.1 U
LS-MH46N	4/3/2019	L46N190403M	1 U	5 U	5 U	1 U	1 U	1 U	3.86
LS-MH46N	5/9/2019	L46N190509M	1 U	5 U	5 U	1 U	1 U	1 U	4.72
LS-MH46N	6/5/2019	L46N190605M	1 U	5 U	5 U	1 U	1 U	1 U	4.43
LS-PS2A	4/3/2019	LP2A190403D	1 U	5 U	5 U	1 U	1 U	1 U	0.1 U
LS-PS2A	4/3/2019	LP2A190403M	1 U	5 U	5 U	1 U	1 U	1 U	0.1 U
LS-PS2A	6/5/2019	LP2A190605M	1 U	5 U	5 U	1 U	1 U	1 U	0.1 U
LS-PS2A	5/9/2019	LPS2190509M	1 U	5 U	5 U	1 U	1 U	1 U	0.1 U
LS-V1A	4/2/2019	LV1A190402M	1 U	5 U	5 U	1 U	1 U	1 U	0.1 U
LS-V1A	5/8/2019	LV1A190508M	1 U	5 U	5 U	1 U	1 U	1 U	0.1 U
LS-V1A	6/5/2019	LV1A190605M	1 U	5 U	5 U	1 U	1 U	1 U	0.1 U
FIELD BLANK	6/5/2019	L46N190605F	1 U	5 U	5 U	1 U	1 U	1 U	0.1 U
VOA TRIP BLANK	4/3/2019	VTRP190403X	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	4/2/2019	VTRP190403Y	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	5/8/2019	VTRP190508X2	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	5/8/2019	VTRP190509Z	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	6/3/2019	VTRP190604X2	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 U

Environmental Monitoring Data

Data Collected from October 1, 2018 to December 31, 2018  
 Cedar Hills Landfill --- Leachate Pestacides, Herbacides, PCBs Data  
 Contact Person: Senny Jimenez (206) 477-5224

Site	Date	Sample ID	2,4,5-T	2,4,5-TP Silvex	2,4-D	4,4' DDD	4,4' DDE	4,4' DDT	Aldrin	Alpha BHC	Alpha Chlordane	Aroclor 1016
			93-76-5	93-72-1	94-75-7	72-54-8	72-55-9	50-29-3	309-00-2	BHC	Chlordane	1016
			ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
LS-LEPS	4/2/2019	LEPS190402M	0.5 U	0.5 U	1 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
LS-LEPS	5/8/2019	LEPS190508M	0.5 U	0.5 U	1 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
LS-LEPS	6/4/2019	LEPS190604M	0.5 U	0.5 U	1 U	0.025 U	0.025 GU	0.025 GU	0.025 GU	0.025 U	0.025 GU	0.025 U
LS-MH46N	4/3/2019	L46N190403M	0.5 U	0.884	1.53	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.027 J	0.025 U
LS-MH46N	5/9/2019	L46N190509M	0.5 U	0.704	2 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.025 U
LS-MH46N	6/5/2019	L46N190605M	0.5 U	0.718	1.5 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.025 U
LS-PS2A	4/3/2019	LP2A190403D	0.5 U	1.49	1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.025 U
LS-PS2A	4/3/2019	LP2A190403M	0.5 U	1.25	1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.025 U
LS-PS2A	6/5/2019	LP2A190605M	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
LS-PS2A	5/9/2019	LPS2190509M	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
LS-V1A	4/2/2019	LV1A190402M	0.5 U	1.5 U	1 U	0.025 U	0.025 U	0.025 U	0.125 U	0.025 U	0.025 U	0.025 U
LS-V1A	5/8/2019	LV1A190508M	0.5 U	0.549 J	1.5 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
LS-V1A	6/5/2019	LV1A190605M	0.5 U	0.614 J	1 U	0.075 U	0.025 GU	0.025 GU	0.025 GU	0.025 U	0.025 GU	0.025 U

Environmental Monitoring Data

Data Collected from October 1, 2018 to December 31, 2018  
 Cedar Hills Landfill --- Leachate Pestacides, Herbacides, PCBs Data  
 Contact Person: Sedy Jimenez (206) 477-5224

Site	Date	Sample ID	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Beta Bhc	Delta Bhc	Dieldrin	Dinoseb
			1221	1232	1242	1248	1254	1260	BHC	BHC		
			11104-28-2	11141-16-5	53469-21-9	12672-29-6	11097-69-1	11096-82-5	319-85-7	319-86-8	60-57-1	88-85-7
			ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
LS-LEPS	4/2/2019	LEPS190402M	0.025 U	0.025 U	0.0392	0.025 U	0.0379	0.025 U	0.025 U	0.025 GU	0.025 U	0.5 U
LS-LEPS	5/8/2019	LEPS190508M	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.05 U	0.025 U	0.025 U	0.5 U
LS-LEPS	6/4/2019	LEPS190604M	0.025 U	0.025 U	0.0399	0.025 U	0.025 U	0.025 U	0.05 U	0.025 GU	0.025 U	0.5 U
LS-MH46N	4/3/2019	L46N190403M	0.0589 J	0.025 U	0.161	0.025 U	0.025 U	0.025 U	0.0394 J	0.01 U	0.02 U	0.5 U
LS-MH46N	5/9/2019	L46N190509M	0.075 U	0.025 U	0.242	0.025 U	0.025 U	0.025 U	0.0151 J	0.0292 J	0.02 U	0.5 U
LS-MH46N	6/5/2019	L46N190605M	0.075 U	0.025 U	0.201	0.025 U	0.025 U	0.025 U	0.0219 J	0.02 U	0.01 U	0.5 U
LS-PS2A	4/3/2019	LP2A190403D	0.025 U	0.025 U	0.121	0.025 U	0.108	0.0789	0.01 U	0.01 U	0.01 U	0.5 U
LS-PS2A	4/3/2019	LP2A190403M	0.025 U	0.025 U	0.115	0.025 U	0.0981	0.067	0.02 U	0.01 U	0.01 U	0.5 U
LS-PS2A	6/5/2019	LP2A190605M	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.01 U	0.01 U	0.01 U	0.5 U
LS-PS2A	5/9/2019	LPS2190509M	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.01 U	0.01 U	0.01 U	0.5 U
LS-V1A	4/2/2019	LV1A190402M	0.035 U	0.025 U	0.108	0.025 U	0.061	0.025 U	0.025 U	0.1 GU	0.025 U	0.5 U
LS-V1A	5/8/2019	LV1A190508M	0.025 U	0.025 U	0.115	0.025 U	0.0899	0.025 U	0.063 J	0.0381 J	0.025 U	0.5 U
LS-V1A	6/5/2019	LV1A190605M	0.025 U	0.025 U	0.112	0.025 U	0.0466	0.025 U	0.075 U	0.1 GU	0.025 U	0.5 U

Environmental Monitoring Data

Data Collected from October 1, 2018 to December 31, 2018

Cedar Hills Landfill --- Leachate Pestacides, Herbacides, PCBs Data

Contact Person: Sedy Jimenez (206) 477-5224

Site	Date	Sample ID	Endosulfan I sulfan I 959-98-8 ug/l	Endosulfan II sulfan II 33213-65-9 ug/l	Endosulfan Sulfate Sulfate 1031-07-8 ug/l	Endrin 72-20-8 ug/l	Endrin Aldehyde Aldehyde 7421-93-4 ug/l	Heptachlor 76-44-8 ug/l	Heptachlor Epoxide Epoxide 1024-57-3 ug/l	Isodrin 465-73-6 ug/l	Lindane(Gamma BHC) 58-89-9 ug/l	Methoxychlor chlor 72-43-5 ug/l
LS-LEPS	4/2/2019	LEPS190402M	0.025 U	0.025 U	0.025 U	0.025 U	0.025 GU	0.025 U	0.025 U	0.025 U	0.025 U	0.125 U
LS-LEPS	5/8/2019	LEPS190508M	0.025 U	0.025 U	0.025 U	0.025 U	0.025 GU	0.025 U	0.025 U	0.025 U	0.025 U	0.125 U
LS-LEPS	6/4/2019	LEPS190604M	0.025 U	0.025 U	0.025 U	0.025 U	0.025 GU	0.025 U	0.025 U	0.025 U	0.025 U	0.125 U
LS-MH46N	4/3/2019	L46N190403M	0.01 U	0.01 U	0.01 U	0.01 U	0.0191	0.01 U	0.01 U	0.01 U	0.0172 J	0.05 U
LS-MH46N	5/9/2019	L46N190509M	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0242 J	0.05 U
LS-MH46N	6/5/2019	L46N190605M	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0179 J	0.05 U
LS-PS2A	4/3/2019	LP2A190403D	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U	0.01 U	0.01 U	0.01 U	0.05 U
LS-PS2A	4/3/2019	LP2A190403M	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
LS-PS2A	6/5/2019	LP2A190605M	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
LS-PS2A	5/9/2019	LPS2190509M	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
LS-V1A	4/2/2019	LV1A190402M	0.025 U	0.1 U	0.025 U	0.05 U	0.025 GU	0.025 U	0.1 U	0.025 U	0.025 U	0.125 U
LS-V1A	5/8/2019	LV1A190508M	0.025 U	0.0316	0.025 U	0.025 U	0.025 GU	0.05 U	0.025 U	0.025 U	0.075 U	0.125 U
LS-V1A	6/5/2019	LV1A190605M	0.025 U	0.0442	0.025 U	0.025 U	0.025 GU	0.15 U	0.025 U	0.025 U	0.1 U	0.125 U

Environmental Monitoring Data

Data Collected from October 1, 2018 to December 31, 2018

Cedar Hills Landfill --- Leachate Pestacides, Herbicides, PCBs Data

Contact Person: Sedy Jimenez (206) 477-5224

Site	Date	Sample ID	Total Aroclors	Toxaphene	Trans-Chlordane
			T_AROCLOR	8001-35-2	5103-74-2
			ug/l	ug/l	ug/l
LS-LEPS	4/2/2019	LEPS190402M	0.0771	2.5 U	0.025 GU
LS-LEPS	5/8/2019	LEPS190508M	0.025 U	2.5 U	0.025 U
LS-LEPS	6/4/2019	LEPS190604M	0.0399	2.5 U	0.025 GU
LS-MH46N	4/3/2019	L46N190403M	0.2199	1 U	0.01 U
LS-MH46N	5/9/2019	L46N190509M	0.242	1 U	0.01 U
LS-MH46N	6/5/2019	L46N190605M	0.201	1 U	0.01 U
LS-PS2A	4/3/2019	LP2A190403D	0.3079	1 U	0.01 U
LS-PS2A	4/3/2019	LP2A190403M	0.2801	1 U	0.01 U
LS-PS2A	6/5/2019	LP2A190605M	0.025 U	1 U	0.01 U
LS-PS2A	5/9/2019	LPS2190509M	0.025 U	1 U	0.01 U
LS-V1A	4/2/2019	LV1A190402M	0.169	2.5 U	0.1 GU
LS-V1A	5/8/2019	LV1A190508M	0.2049	2.5 U	0.025 U
LS-V1A	6/5/2019	LV1A190605M	0.1586	2.5 U	0.05 GU





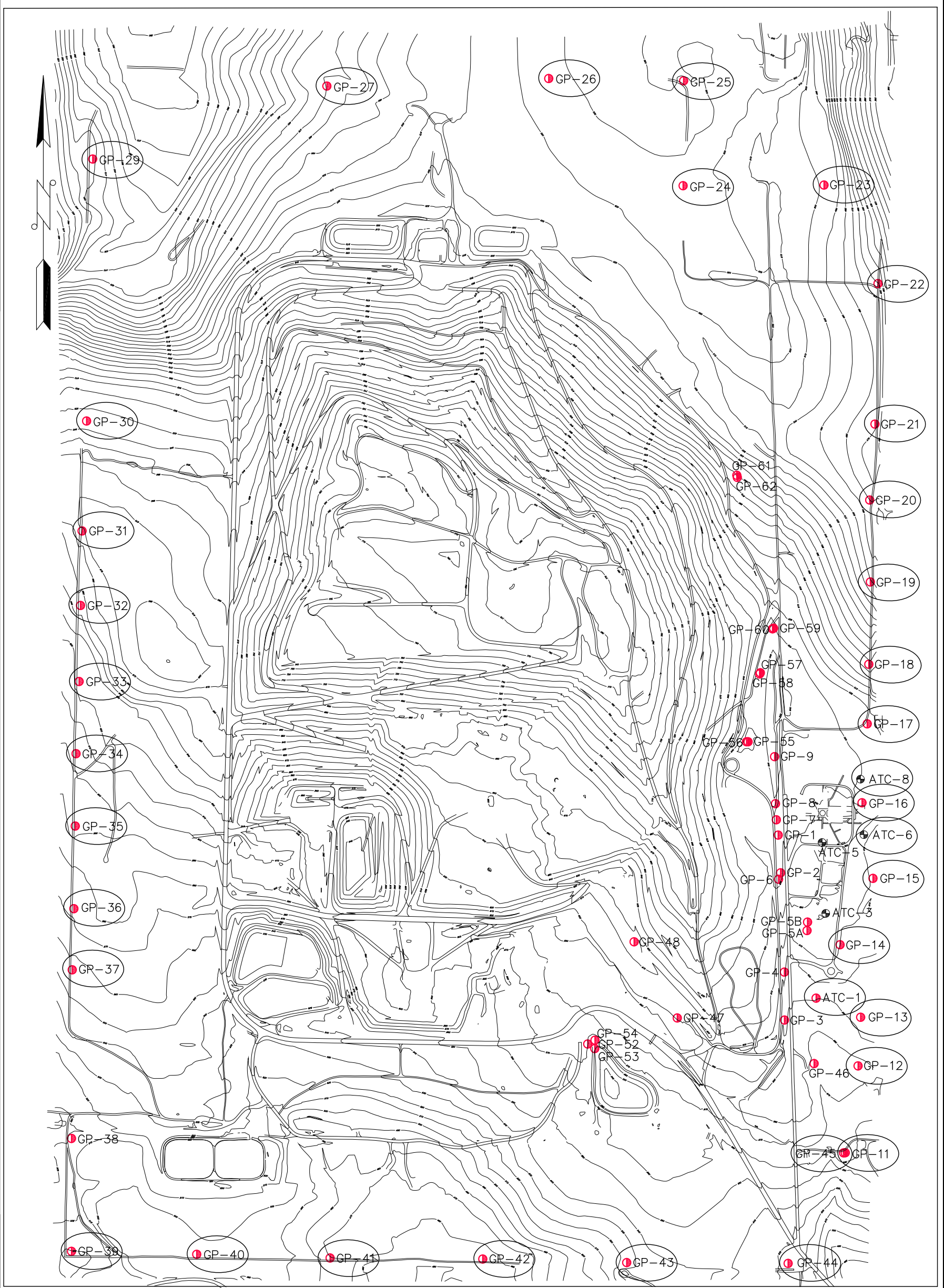
## Data Qualifiers

**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)

## Landfill Gas Monitoring Data





**LEGEND**  
 INTERIOR LFG MONITORING PROBES  
 LFG MIGRATION MONITORING PROBES

GP-61	172389.358	1701689.133	561.42	563.673	563.18	GP61 TOP LID
GP-62	172375.658	1701672.384	563.35	565.703	565.28	GP62 TOP LID
GP-59	171373.815	1701913.385	633.45	635.991	635.45	GP59 TOP LID
GP-60	171369.626	1701906.243	633.68	636.366	635.84	GP60 TOP LID
GP-57	171077.878	1701825.385	637.02	639.432	639.00	GP57 TOP LID
GP-58	171070.016	1701820.583	637.56	640.345	639.81	GP58 TOP LID
GP-56	170619.58	1701733.686	641.07	644.03	643.57	GP56 TOP LID
GP-55	170619.474	1701744.081	640.99	643.621	643.09	GP55 TOP LID

DATE	REVISION	BY

Northing	Easting	Elev	Description	Inst Date
170,000.33	1,701,942.93	640.02	GP-1 CASE EL.	1985/86
169,740.00	1,701,960.00	622.00	GP-2 CASE EL.	1985/86
168,758.11	1,701,986.28	594.21	GP-3 CASE EL.	1985/86
169,058.18	1,701,972.94	606.19	GP-4 CASE EL.	1985/86
169,370.19	1,702,134.95	616.23	GP-5A GRND EL.	1988
169,422.02	1,702,138.87	619.63	GP-5B CASE EL.	1988
169,731.73	1,701,946.48	635.59	GP-6 CASE EL.	1988
170,101.22	1,701,930.58	640.65	GP-7 CASE EL.	1988
170,208.37	1,701,925.10	642.67	GP-8 CASE EL.	1988
170,519.95	1,701,919.34	645.27	GP-9 CASE EL.	1988
167,890.09	1,702,398.27	567.15	GP-10 NOT INSTALLED	1988
168,466.64	1,702,473.27	588.08	GP-11 CASE EL.	1988
168,790.03	1,702,490.84	588.15	GP-12 CASE EL.	1988
169,271.56	1,702,354.75	613.32	GP-13 CASE EL.	1988
169,724.93	1,702,446.19	618.75	GP-14 CASE EL.	1988
170,214.28	1,702,500.56	630.19	GP-15 CASE EL.	1988
170,738.83	1,702,535.09	625.18	GP-17 CASE EL.	1988
171,132.85	1,702,543.29	600.83	GP-18 CASE EL.	1988
171,634.82	1,702,554.91	544.15	GP-19 CASE EL.	1988
172,224.83	1,702,550.70	496.61	GP-20 CASE EL.	1988
172,729.15	1,702,594.95	489.79	GP-21 CASE EL.	1988
173,662.40	1,702,607.81	374.84	GP-22 CASE EL.	1988
174,317.16	1,702,248.74	501.77	GP-23 CASE EL.	1988
174,313.44	1,701,314.74	544.72	GP-24 CASE EL.	1988
175,011.63	1,701,324.89	533.86	GP-25 CASE EL.	1988
175,043.82	1,700,394.55	541.69	GP-26 CASE EL.	1988
174,983.78	1,698,936.88	494.75	GP-27 CASE EL.	1988
174,455.39	1,697,386.67	431.05	GP-28 NOT INSTALLED	1988
172,787.40	1,697,339.61	644.62	GP-29 CASE EL.	1988
172,013.96	1,697,324.12	673.37	GP-31 CASE EL.	1988
171,524.28	1,697,308.08	647.57	GP-32 CASE EL.	1988
171,017.18	1,697,293.36	625.03	GP-33 CASE EL.	1988
170,537.12	1,697,287.04	604.93	GP-34 CASE EL.	1988
170,083.32	1,697,286.32	596.28	GP-35 CASE EL.	1988
169,510.89	1,697,282.08	557.38	GP-37 CASE EL.	1988
169,049.03	1,697,282.08	523.57	GP-38 CASE EL.	1988
167,909.72	1,697,243.54	523.57	GP-39 CASE EL.	1988
167,239.45	1,697,232.41	541.03	GP-39 CASE EL.	1988
167,205.68	1,698,100.32	502.77	GP-40 CASE EL.	1988
167,191.96	1,698,965.50	482.97	GP-41 CASE EL.	1988
167,183.37	1,699,979.80	457.95	GP-42 CASE EL.	1988
167,160.00	1,700,961.11	536.85	GP-43 CASE EL.	1988
167,135.28	1,702,007.20	529.11	GP-44 CASE EL.	1984
167,888.74	1,702,378.77	567.47	GP-45 CASE EL.	1994
168,482.15	1,702,182.52	589.79	GP-46 CASE EL.	1994
168,783.75	1,701,272.71	600.57	GP-47 CASE EL.	1994
169,289.65	1,700,985.88	616.56	GP-48 CASE EL.	1994
168,612.91	1,700,710.62	561.13	GP-52 GRND EL.	2001
168,601.99	1,700,711.34	561.02	GP-53 GRND EL.	2001
168,617.89	1,700,717.53	561.20	GP-54 GRND EL.	2001
168,616.92	1,702,196.87	591.29	GP-54 GRND EL.	1985/86
169,479.79	1,702,259.87	616.25	GP-ATC-3 GRND EL.	1985/86
169,950.42	1,702,236.30	625.65	GP-ATC-4 ABANDONED/REMOVED	1985/86
170,002.70	1,702,572.89	620.16	GP-ATC-5 GRND EL.	1985/86
170,371.26	1,702,480.56	629.94	GP-ATC-6 GRND EL.	1985/86
			GP-ATC-7 GRND EL.	1985/86
			GP-ATC-8 GRND EL.	1985/86

**King County**  
 KING COUNTY DEPARTMENT OF  
 NATURAL RESOURCES AND PARKS  
 SOLID WASTE DIVISION

CEDAR HILLS REGIONAL LANDFILL  
 LANDFILL GAS MIGRATION MONITORING PLAN

APPROVED: VICTOR O. OKERKE DATE: 03-27-08  
 RECOMMENDED: TOM THIENO DATE: 03-27-08  
 DESIGNED: N/A DRAWN: PHAM / MEHLEN  
 PROJECT NO.: SURVEY NO.: SHEET 1 OF 1



## Compliance Probes





**CEDAR HILLS REGIONAL LANDFILL**  
**Landfill Gas Compliance Probes**  
**April 2019 Monitoring**

<b>Probe ID</b>	<b>Date/Time</b>	<b>CH4 %vol</b>	<b>CO2 %vol</b>	<b>O2 %vol</b>	<b>Lower Explosive Limit %LEL</b>	<b>Static Pressure in INWC</b>	<b>Comments</b>
ATC-01D	4/24/2019 11:36	0.0	0.1	21.0	0	-0.25	
ATC-01S	4/24/2019 11:35	0.0	0.1	21.0	0	-0.08	
ATC-06D	4/24/2019 12:40	0.0	0.7	5.0	0	0.07	
ATC-06S	4/24/2019 12:39	0.0	0.1	20.3	0	-6.72	
ATC-08D	4/24/2019 12:31	0.0	1.9	11.8	0	0	
ATC-08S	4/24/2019 12:30	0.0	0.3	19.1	0	-0.87	
GP-11A	4/24/2019 11:19	0.0	0.1	21.0	0	-0.12	
GP-11B	4/24/2019 11:20	0.0	0.1	21.0	0	-0.66	
GP-11C	4/24/2019 11:21	0.0	0.1	21.0	0	-0.68	
GP-11D	4/24/2019 11:22	0.0	0.1	21.0	0	-0.06	
GP-12A	4/24/2019 11:43	0.0	0.1	21.0	0	-0.02	
GP-12B	4/24/2019 11:44	0.0	0.1	21.0	0	0.01	
GP-12C	4/24/2019 11:45	0.0	0.1	18.2	0	0.14	
GP-12D	4/24/2019 11:48	0.0	0.2	19.7	0	-3.3	
GP-13A	4/24/2019 11:51	0.0	0.1	21.0	0	0.2	
GP-13B	4/24/2019 11:52	0.0	0.1	21.0	0	-0.02	
GP-13C	4/24/2019 11:53	0.0	0.1	21.0	0	-0.03	
GP-13D	4/24/2019 11:54	0.0	0.1	21.0	0	-2.39	
GP-14A	4/24/2019 11:59	0.0	0.1	20.8	0	-0.6	
GP-14B	4/24/2019 12:01	0.0	0.1	20.8	0	0.73	
GP-15A	4/24/2019 12:24	0.0	0.2	19.7	0	-0.01	
GP-15C	4/24/2019 12:23	0.0	0.1	20.3	0	0	
GP-15D	4/24/2019 12:23	0.0	0.1	20.5	0	-0.02	
GP-16A	4/24/2019 12:34	0.0	0.1	19.8	0	0.21	
GP-16B	4/24/2019 12:35	0.0	0.1	20.4	0	-1.47	
GP-16C	4/24/2019 12:36	0.0	0.1	20.5	0	-2.59	
GP-17A	4/24/2019 14:22	0.0	0.1	19.6	0	-15.78	
GP-17B	4/24/2019 14:24	0.0	0.7	16.4	0	0.06	
GP-17C	4/24/2019 14:25	0.0	0.1	19.8	0	-2.14	
GP-18A	4/24/2019 14:28	0.0	0.0	0.0	0	0	NR Water
GP-18B	4/24/2019 14:30	0.0	0.3	11.7	0	0.03	
GP-18C	4/24/2019 14:31	0.0	0.1	19.8	0	-2.23	
GP-19A	4/24/2019 14:37	0.0	0.0	20.2	0	0.03	
GP-19B	4/24/2019 14:40	0.0	0.6	14.9	0	0.08	
GP-19C	4/24/2019 14:43	0.0	0.1	20.3	0	-0.1	
GP-20A	4/24/2019 15:15	0.0	0.1	20.4	0	0.02	
GP-20B	4/24/2019 15:16	0.0	0.2	18.8	0	0.02	
GP-20C	4/24/2019 15:18	0.0	0.2	13.3	0	0.34	
GP-21A	4/24/2019 15:23	0.0	0.1	20.1	0	0.02	
GP-21B	4/24/2019 15:25	0.0	0.1	10.2	0	0.03	
GP-21C	4/24/2019 15:26	0.0	0.0	0.0	0	0	NR Water
GP-22A	4/24/2019 15:36	0.0	0.2	20.1	0	-6.72	
GP-22C	4/24/2019 15:38	0.0	0.8	2.5	0	-3.73	
GP-23A	4/24/2019 15:43	0.0	0.1	19.8	0	0.01	
GP-23B	4/24/2019 15:45	0.0	0.1	20.3	0	0.03	
GP-23C	4/24/2019 15:46	0.0	0.1	20.4	0	0.05	
GP-24A	4/24/2019 15:50	0.0	4.5	8.7	0	-0.07	
GP-24B	4/24/2019 15:52	0.0	2.0	15.1	0	0.04	
GP-25	4/24/2019 15:59	0.0	3.3	12.7	0	0.04	
GP-26	4/24/2019 16:03	0.0	0.8	18.1	0	0.32	
GP-27	4/24/2019 16:06	0.0	7.4	9.3	0	0.03	
GP-29A	4/24/2019 16:15	0.0	1.9	16.2	0	0.06	
GP-29B	4/24/2019 16:16	0.0	0.6	20.0	0	0.01	
GP-30A	4/24/2019 9:32	0.0	0.0	0.0	0	0	NR Water
GP-30B	4/24/2019 9:34	0.0	1.2	19.9	0	-1.19	
GP-31A	4/24/2019 9:36	0.0	0.9	19.8	0	-10.06	
GP-31B	4/24/2019 9:41	0.0	0.3	18.9	0	-0.76	
GP-31C	4/24/2019 9:43	0.0	0.1	21.0	0	0.06	
GP-32A	4/24/2019 9:47	0.0	1.1	18.2	0	0.07	
GP-32B	4/24/2019 9:48	0.0	0.2	20.7	0	0.05	
GP-32C	4/24/2019 9:49	0.0	0.2	20.8	0	0.06	
GP-33A	4/24/2019 9:52	0.0	0.2	20.9	0	0.04	
GP-33B	4/24/2019 9:54	0.0	0.1	21.0	0	0.14	
GP-33C	4/24/2019 9:55	0.0	0.1	21.0	0	-1.52	
GP-34A	4/24/2019 9:58	0.0	0.1	20.9	0	0.03	
GP-34B	4/24/2019 10:00	0.0	0.1	21.0	0	0	
GP-34C	4/24/2019 10:01	0.0	0.1	21.0	0	-2.09	

**CEDAR HILLS REGIONAL LANDFILL**  
**Landfill Gas Compliance Probes**  
**April 2019 Monitoring**

<b>Probe ID</b>	<b>Date/Time</b>	<b>CH4 %vol</b>	<b>CO2 %vol</b>	<b>O2 %vol</b>	<b>Lower Explosive Limit %LEL</b>	<b>Static Pressure in INWC</b>	<b>Comments</b>
GP-35A	4/24/2019 10:06	0.0	0.1	21.0	0	0.02	
GP-35B	4/24/2019 10:08	0.0	0.1	21.0	0	0	
GP-35C	4/24/2019 10:09	0.0	0.1	21.0	0	-0.04	
GP-36A	4/24/2019 10:13	0.0	0.2	20.5	0	-0.01	
GP-36B	4/24/2019 10:14	0.0	0.0	0.0	0	0	NR Water
GP-36C	4/24/2019 10:15	0.0	0.2	20.6	0	-1.64	
GP-37A	4/24/2019 10:18	0.0	0.0	0.0	0	0	NR Water
GP-37B	4/24/2019 10:19	0.0	0.0	0.0	0	0	NR Water
GP-37C	4/24/2019 10:21	0.0	0.1	20.7	0	-2.06	
GP-39	4/24/2019 10:29	0.5	1.6	15.3	10	-0.23	
GP-40	4/24/2019 10:33	0.0	0.1	17.6	0	0.25	
GP-41A	4/24/2019 10:46	0.0	0.1	20.6	0	-0.02	
GP-41B	4/24/2019 10:47	0.0	0.1	20.4	0	-0.08	
GP-41C	4/24/2019 10:49	0.0	0.1	20.6	0	-0.14	
GP-42A	4/24/2019 10:53	0.0	0.1	20.6	0	0.59	
GP-42B	4/24/2019 10:54	0.0	0.4	19.4	0	-0.46	
GP-43A	4/24/2019 10:59	0.0	0.3	19.1	0	0.96	
GP-43B	4/24/2019 11:00	0.0	0.1	20.6	0	0.57	
GP-43C	4/24/2019 11:01	0.0	0.1	20.7	0	0.61	
GP-44A	4/24/2019 11:07	0.0	0.1	20.8	0	0.63	
GP-44B	4/24/2019 11:08	0.0	0.1	20.5	0	-0.06	
GP-44C	4/24/2019 11:09	0.0	0.1	20.9	0	0.55	
GP-45D	4/24/2019 11:17	0.0	0.1	21.0	0	-0.93	
GP-45I	4/24/2019 11:16	0.0	0.1	21.0	0	-0.09	
GP-45S	4/24/2019 11:14	0.0	0.1	21.0	0	-0.02	

**CEDAR HILLS REGIONAL LANDFILL**  
**Landfill Gas Compliance Probes**  
**May 2019 Monitoring**

<b>Probe ID</b>	<b>Date/Time</b>	<b>CH4 %vol</b>	<b>CO2 %vol</b>	<b>O2 %vol</b>	<b>Lower Explosive Limit %LEL</b>	<b>Static Pressure in INWC</b>	<b>Comments</b>
ATC-01D	5/15/2019 12:22	0.0	0.0	20.8	0	0.03	
ATC-01S	5/15/2019 12:21	0.0	0.1	20.8	0	0.14	
ATC-06D	5/15/2019 13:42	0.0	0.7	2.6	0	0.3	
ATC-06S	5/15/2019 13:41	0.0	1.9	13.5	0	0.15	
ATC-08D	5/15/2019 13:30	0.0	2.4	15.2	0	0.13	
ATC-08S	5/15/2019 13:28	0.0	0.2	18.8	0	0.64	
GP-11A	5/15/2019 12:10	0.0	0.1	20.5	0	0.12	
GP-11B	5/15/2019 12:11	0.0	0.5	13.6	0	1.3	
GP-11C	5/15/2019 12:12	0.0	0.2	7.3	0	1.66	
GP-11D	5/15/2019 12:14	0.0	0.1	20.5	0	0.12	
GP-12A	5/15/2019 12:29	0.0	0.1	20.4	0	0.09	
GP-12B	5/15/2019 12:30	0.0	0.1	20.5	0	0.07	
GP-12C	5/15/2019 12:31	0.0	0.1	20.7	0	0.08	
GP-12D	5/15/2019 12:33	0.0	0.5	7.5	0	0.83	
GP-13A	5/15/2019 12:37	0.0	0.1	20.8	0	0.08	
GP-13B	5/15/2019 12:38	0.0	0.0	20.8	0	0.1	
GP-13C	5/15/2019 12:40	0.0	0.0	20.5	0	0.1	
GP-13D	5/15/2019 12:41	0.0	0.1	20.2	0	2.81	
GP-14A	5/15/2019 12:46	0.0	0.1	17.5	0	0.89	
GP-14B	5/15/2019 12:47	0.0	0.1	19.8	0	0.77	
GP-15A	5/15/2019 13:18	0.0	0.1	20.2	0	0.12	
GP-15C	5/15/2019 13:20	0.0	0.5	17.4	0	0.29	
GP-15D	5/15/2019 13:22	0.0	0.1	20.3	0	0.15	
GP-16A	5/15/2019 13:34	0.0	0.1	20.6	0	0.14	
GP-16B	5/15/2019 13:36	0.0	0.2	18.5	0	0.15	
GP-16C	5/15/2019 13:37	0.0	0.7	15.2	0	3.46	
GP-17A	5/14/2019 10:52	0.0	0.0	20.6	0	-0.39	
GP-17B	5/14/2019 10:54	0.0	0.7	17.3	0	0.03	
GP-17C	5/14/2019 10:56	0.0	0.1	20.4	0	-0.38	
GP-18A	5/14/2019 11:00	0.0	1.7	14.1	0	-1.2	
GP-18B	5/14/2019 11:02	0.0	0.2	16.1	0	0.06	
GP-18C	5/14/2019 11:04	0.0	0.1	17.6	0	-0.14	
GP-19A	5/14/2019 11:07	0.0	0.0	20.7	0	0.04	
GP-19B	5/14/2019 11:09	0.0	0.6	15.6	0	0.03	
GP-19C	5/14/2019 11:10	0.0	0.0	20.7	0	0	
GP-20A	5/15/2019 15:01	0.0	0.1	20.6	0	0.01	
GP-20B	5/15/2019 15:03	0.0	0.3	13.1	0	0.04	
GP-20C	5/15/2019 15:04	0.0	0.1	10.6	0	0.04	
GP-21A	5/15/2019 15:07	0.0	0.1	20.5	0	0.01	
GP-21B	5/15/2019 15:08	0.0	0.1	11.8	0	0.01	
GP-21C	5/15/2019 15:09	0.0	0.1	20.5	0	0	
GP-22A	5/15/2019 15:13	0.0	0.1	20.5	0	-0.69	
GP-22C	5/15/2019 15:15	0.0	1.0	1.7	0	3.79	
GP-23A	5/15/2019 15:20	0.0	0.1	20.5	0	0.03	
GP-23B	5/15/2019 15:21	0.0	0.1	20.6	0	0.04	
GP-23C	5/15/2019 15:22	0.0	0.1	20.7	0	0.01	
GP-24A	5/15/2019 15:26	0.0	4.3	9.5	0	0.03	
GP-24B	5/15/2019 15:28	0.0	1.7	14.5	0	0.07	
GP-25	5/15/2019 15:31	0.0	3.2	14.7	0	0.07	
GP-26	5/15/2019 15:34	0.0	0.2	20.3	0	0.01	
GP-27	5/15/2019 15:38	0.0	5.2	10.6	0	0	
GP-29A	5/15/2019 15:51	0.0	3.2	14.9	0	-0.01	
GP-29B	5/15/2019 15:52	0.0	0.4	20.6	0	0.02	
GP-30A	5/14/2019 7:48	0.0	2.3	18.4	0	-0.05	
GP-30B	5/14/2019 7:50	0.0	0.9	19.6	0	-0.54	
GP-31A	5/14/2019 7:55	0.0	1.0	20.1	0	-0.18	
GP-31B	5/14/2019 7:57	0.0	0.2	17.8	0	-0.02	
GP-31C	5/14/2019 8:00	0.0	0.1	21.0	0	-0.04	
GP-32A	5/14/2019 8:07	0.0	0.1	21.0	0	-0.02	
GP-32B	5/14/2019 8:10	0.0	0.1	20.7	0	0.01	
GP-33A	5/14/2019 8:15	0.0	1.8	17.9	0	0.03	
GP-33B	5/14/2019 8:17	0.0	0.1	20.7	0	0.04	
GP-33C	5/14/2019 8:19	0.0	0.1	20.8	0	0.03	
GP-34A	5/14/2019 8:23	0.0	0.1	20.8	0	16.53	
GP-34B	5/14/2019 8:24	0.0	0.2	15.2	0	0	
GP-34C	5/14/2019 8:26	0.0	0.1	12.1	0	0.06	
GP-35A	5/14/2019 8:30	0.0	0.1	20.4	0	0.04	

**CEDAR HILLS REGIONAL LANDFILL**  
**Landfill Gas Compliance Probes**  
**May 2019 Monitoring**

<b>Probe ID</b>	<b>Date/Time</b>	<b>CH4 %vol</b>	<b>CO2 %vol</b>	<b>O2 %vol</b>	<b>Lower Explosive Limit %LEL</b>	<b>Static Pressure in INWC</b>	<b>Comments</b>
GP-35B	5/14/2019 8:32	0.0	0.0	20.8	0	-0.01	
GP-35C	5/14/2019 8:34	0.0	0.1	19.7	0	0.02	
GP-36A	5/14/2019 8:39	0.0	0.2	10.5	0	0.06	
GP-36B	5/14/2019 8:41	0.0	0.0	20.9	0	0.05	
GP-36C	5/14/2019 8:43	0.0	0.2	18.2	0	0.04	
GP-37A	5/14/2019 8:47	0.0	0.0	21.0	0	0.03	
GP-37B	5/14/2019 8:48	0.0	0.0	21.0	0	0.01	
GP-37C	5/14/2019 8:51	0.0	0.4	6.9	0	0.11	
GP-39	5/14/2019 9:15	0.0	1.7	15.3	0	0.04	
GP-40	5/14/2019 9:20	0.0	0.0	19.3	0	0.03	
GP-41A	5/14/2019 9:25	0.0	0.0	20.7	0	0.03	
GP-41B	5/14/2019 9:27	0.0	0.0	20.7	0	0.09	
GP-41C	5/14/2019 9:29	0.0	0.0	20.8	0	0.05	
GP-42A	5/14/2019 9:34	0.0	0.1	20.8	0	0.03	
GP-42B	5/14/2019 9:36	0.0	0.9	17.1	0	0.01	
GP-43A	5/14/2019 9:41	0.0	0.0	21.0	0	0.03	
GP-43B	5/14/2019 9:43	0.0	0.0	21.0	0	0.02	
GP-43C	5/14/2019 9:45	0.0	0.1	17.1	0	0.03	
GP-44A	5/14/2019 9:49	0.0	0.0	21.0	0	0.03	
GP-44B	5/14/2019 9:51	0.0	0.2	18.4	0	-0.17	
GP-44C	5/14/2019 9:52	0.0	0.0	21.0	0	0.49	
GP-45D	5/15/2019 12:08	0.0	0.1	19.1	0	1.78	
GP-45I	5/15/2019 12:06	0.0	0.1	15.2	0	0.15	
GP-45S	5/15/2019 12:05	0.0	0.1	20.2	0	0.07	

**CEDAR HILLS REGIONAL LANDFILL**  
**Landfill Gas Compliance Probes**  
**June 2019 Monitoring**

<b>Probe ID</b>	<b>Date/Time</b>	<b>CH4 %vol</b>	<b>CO2 %vol</b>	<b>O2 %vol</b>	<b>Lower Explosive Limit %LEL</b>	<b>Static Pressure in INWC</b>	<b>Comments</b>
ATC-01D	6/18/2019 12:05	0.0	0.1	21.0	0	0	
ATC-01S	6/18/2019 12:02	0.0	1.7	18.3	0	0.04	
ATC-06D	6/18/2019 14:53	0.0	0.3	21.0	0	-0.02	
ATC-06S	6/18/2019 14:51	0.0	1.8	20.0	0	0.03	
ATC-08D	6/18/2019 14:41	0.0	3.2	18.5	0	0	
ATC-08S	6/18/2019 14:39	0.0	0.2	21.0	0	-0.02	
GP-11A	6/18/2019 11:48	0.0	0.1	21.0	0	0.03	
GP-11B	6/18/2019 11:50	0.0	0.1	21.0	0	-0.42	
GP-11C	6/18/2019 11:52	0.0	0.1	21.0	0	-0.48	
GP-11D	6/18/2019 11:54	0.0	0.1	21.0	0	0.06	
GP-12A	6/18/2019 12:12	0.0	0.1	21.0	0	0.01	
GP-12B	6/18/2019 12:14	0.0	0.1	21.0	0	0.01	
GP-12C	6/18/2019 12:17	0.0	0.1	21.0	0	-0.09	
GP-12D	6/18/2019 12:19	0.0	0.1	21.0	0	-0.07	
GP-13A	6/18/2019 12:22	0.0	1.9	19.6	0	-0.01	
GP-13B	6/18/2019 12:23	0.0	0.1	21.0	0	-0.03	
GP-13C	6/18/2019 12:25	0.0	0.1	21.0	0	-0.04	
GP-13D	6/18/2019 12:26	0.0	0.1	21.0	0	-2.22	
GP-14A	6/18/2019 12:32	0.0	0.1	22.0	0	-0.57	
GP-14B	6/18/2019 12:34	0.0	0.1	22.0	0	-0.6	
GP-15A	6/18/2019 14:29	0.0	0.1	21.0	0	0.02	
GP-15C	6/18/2019 14:30	0.0	0.1	20.9	0	-0.04	
GP-15D	6/18/2019 14:32	0.0	0.1	21.0	0	0.01	
GP-16A	6/18/2019 14:43	0.0	4.1	18.0	0	0.06	
GP-16B	6/18/2019 14:46	0.0	0.1	21.0	0	-2.12	
GP-16C	6/18/2019 14:48	0.0	0.1	21.0	0	-2.07	
GP-17A	6/18/2019 15:02	0.0	0.0	0.0	0	0	NR H20
GP-17B	6/18/2019 15:04	0.0	0.7	18.6	0	0.03	
GP-17C	6/18/2019 15:06	0.0	0.0	21.0	0	-2.01	
GP-18A	6/18/2019 15:09	0.0	2.0	15.6	0	0.09	
GP-18B	6/18/2019 15:10	0.0	0.3	14.3	0	0.05	
GP-18C	6/18/2019 15:12	0.0	0.1	21.0	0	-1.4	
GP-19A	6/18/2019 15:15	0.0	0.0	21.0	0	0.03	
GP-19B	6/18/2019 15:17	0.0	0.6	16.6	0	0.03	
GP-19C	6/18/2019 15:19	0.0	0.0	21.0	0	-0.13	
GP-20A	6/18/2019 15:22	0.0	0.2	21.0	0	0.02	
GP-20B	6/18/2019 15:24	0.0	0.2	19.5	0	-0.02	
GP-20C	6/18/2019 15:26	0.0	0.2	12.1	0	0.02	
GP-21A	6/18/2019 15:29	0.0	0.1	21.0	0	-0.02	
GP-21B	6/18/2019 15:30	0.0	0.1	12.0	0	0.03	
GP-21C	6/18/2019 15:32	0.0	0.1	21.0	0	-0.03	
GP-22A	6/18/2019 15:36	0.0	1.8	15.1	0	0.01	
GP-22C	6/18/2019 15:38	0.0	0.9	7.7	0	-1.68	
GP-23A	6/19/2019 6:38	0.0	0.2	19.9	0	0.03	
GP-23B	6/19/2019 6:41	0.0	0.1	20.0	0	0.05	
GP-23C	6/19/2019 6:43	0.0	0.1	20.0	0	0.06	
GP-24A	6/19/2019 6:46	0.0	6.7	11.6	0	0.06	
GP-24B	6/19/2019 6:48	0.0	0.3	19.6	0	0.32	
GP-25	6/19/2019 6:51	0.0	3.8	15.3	0	0.04	
GP-26	6/19/2019 6:56	0.0	0.3	19.7	0	0.05	
GP-27	6/19/2019 7:00	0.0	9.8	8.4	0	0.09	
GP-29A	6/19/2019 7:05	0.0	1.6	17.5	0	0.12	
GP-29B	6/19/2019 7:06	0.0	0.5	19.8	0	0.1	
GP-30A	6/18/2019 9:37	0.0	2.9	18.5	0	-0.05	
GP-30B	6/18/2019 9:40	0.0	1.2	19.5	0	-0.84	
GP-31A	6/18/2019 15:53	2.1	9.8	7.8	42	-0.31	
GP-31B	6/18/2019 9:52	0.0	0.3	19.1	0	-0.89	
GP-31C	6/18/2019 9:55	0.0	0.1	21.0	0	0.1	
GP-32A	6/18/2019 10:16	0.0	0.1	21.0	0	0.04	
GP-32B	6/18/2019 10:18	0.0	0.1	21.0	0	0.07	
GP-32C	6/18/2019 10:20	0.0	0.3	20.8	0	0.1	
GP-33A	6/18/2019 10:24	0.0	2.4	17.8	0	0.15	
GP-33B	6/18/2019 10:26	0.0	0.1	20.9	0	0.13	
GP-33C	6/18/2019 10:29	0.0	0.1	20.9	0	-1.12	
GP-34A	6/18/2019 10:32	0.0	0.0	0.0	0	0	NR H20
GP-34B	6/18/2019 10:34	0.0	0.1	20.9	0	-0.03	
GP-34C	6/18/2019 10:37	0.0	0.1	20.9	0	-1.66	

**CEDAR HILLS REGIONAL LANDFILL**  
**Landfill Gas Compliance Probes**  
**June 2019 Monitoring**

<b>Probe ID</b>	<b>Date/Time</b>	<b>CH4 %vol</b>	<b>CO2 %vol</b>	<b>O2 %vol</b>	<b>Lower Explosive Limit %LEL</b>	<b>Static Pressure in INWC</b>	<b>Comments</b>
GP-35A	6/18/2019 10:41	0.0	0.1	20.9	0	0.13	
GP-35B	6/18/2019 10:43	0.0	0.1	21.0	0	0.1	
GP-35C	6/18/2019 10:45	0.0	0.1	21.0	0	0.08	
GP-36A	6/18/2019 10:48	0.0	1.4	20.0	0	-0.99	
GP-36B	6/18/2019 10:50	0.0	0.1	21.0	0	0.15	
GP-36C	6/18/2019 10:52	0.0	0.1	21.0	0	-0.31	
GP-37A	6/18/2019 10:55	0.0	0.1	20.9	0	0.13	
GP-37B	6/18/2019 10:57	0.0	0.1	21.0	0	0.13	
GP-37C	6/18/2019 10:59	0.0	0.5	5.9	0	-1.72	
GP-39	6/18/2019 11:03	0.0	2.0	16.4	0	0.13	
GP-40	6/18/2019 11:06	0.0	0.1	16.7	0	0.17	
GP-41A	6/18/2019 11:09	0.0	6.0	14.8	0	0.12	
GP-41B	6/18/2019 11:12	0.0	0.2	20.9	0	0.14	
GP-41C	6/18/2019 11:15	0.0	0.1	21.0	0	0.16	
GP-42A	6/18/2019 11:19	0.0	0.0	0.0	0	0	NR H20
GP-42B	6/18/2019 11:20	0.0	0.9	17.2	0	-0.63	
GP-43A	6/18/2019 11:24	0.0	0.1	20.5	0	0.21	
GP-43B	6/18/2019 11:27	0.0	0.1	20.9	0	0.18	
GP-43C	6/18/2019 11:29	0.0	0.1	20.9	0	0.19	
GP-44A	6/18/2019 11:33	0.0	0.1	21.0	0	0	
GP-44B	6/18/2019 11:35	0.0	0.2	20.9	0	-0.54	
GP-44C	6/18/2019 11:37	0.0	0.1	21.0	0	0.03	
GP-45D	6/18/2019 11:46	0.0	0.0	21.0	0	-0.63	
GP-45I	6/18/2019 11:43	0.0	0.0	21.0	0	0.05	
GP-45S	6/18/2019 11:42	0.0	0.1	21.0	0	0.03	

## Interior Probes





**CEDAR HILLS REGIONAL LANDFILL**  
**Interior Landfill Gas Probes**  
**April 2019 Monitoring**

<b>Probe ID</b>	<b>Date/Time</b>	<b>CH4 %vol</b>	<b>CO2 %vol</b>	<b>O2 %vol</b>	<b>Lower Explosive Limit %LEL</b>	<b>Static Pressure in INWC</b>	<b>Comments</b>
ATC-03D	4/24/2019 12:19	0.0	0.0	0.0	0	0	NR Water
ATC-03S	4/24/2019 12:18	0.0	1.6	7.3	0	-1.54	
GP-B4-1	4/3/2019 22:15	0.0	2.3	18.4	0	-1.31	
GP-B4-2	4/3/2019 22:18	0.0	0.2	21.0	0	-0.39	
GP-1A	4/3/2019 21:24	0.0	0.2	20.6	0	0.17	
GP-1B	4/3/2019 21:26	0.0	0.3	20.5	0	0.17	
GP-2A	4/3/2019 21:50	0.0	5.8	7.7	0	0.09	
GP-2B	4/3/2019 21:52	0.0	0.1	21.0	0	0.1	
GP-3	4/3/2019 22:22	0.0	7.3	13.7	0	0.06	
GP-4A	4/3/2019 22:08	0.0	0.1	21.0	0	0.12	
GP-4B	4/3/2019 22:10	0.0	0.0	21.0	0	0.12	
GP-5A	4/24/2019 12:44	0.0	0.1	19.8	0	-3.52	
GP-5BA	4/24/2019 12:07	0.0	0.1	20.7	0	-0.09	
GP-5BB	4/24/2019 12:08	0.0	0.1	20.8	0	-3.73	
GP-5BC	4/24/2019 12:09	0.0	0.1	20.8	0	-3.7	
GP-5BD	4/24/2019 12:10	0.0	0.1	20.9	0	-3.32	
GP-6A	4/3/2019 21:32	0.0	1.9	10.5	0	-0.62	
GP-6B	4/3/2019 21:34	0.0	4.2	2.9	0	0.1	
GP-6C	4/3/2019 21:36	0.0	0.9	15.5	0	0.05	
GP-6D	4/3/2019 21:38	0.0	1.1	18.8	0	-0.77	
GP-6E	4/3/2019 21:39	0.0	2.6	7.2	0	-0.23	
GP-6F	4/3/2019 21:41	0.0	2.2	8.5	0	-0.36	
GP-6G	4/3/2019 21:43	0.0	0.1	21.0	0	-0.24	
GP-6H	4/3/2019 21:45	0.0	2.9	9.2	0	-0.87	
GP-7	4/3/2019 21:21	0.0	2.2	15.7	0	-0.87	
GP-8	4/3/2019 21:16	0.0	0.1	21.0	0	-0.79	
GP-9	4/3/2019 20:48	0.0	2.8	12.2	0	-0.58	
GP-46D	4/3/2019 23:24	0.0	0.1	20.3	0	-0.75	
GP-46I	4/3/2019 23:22	9.8	3.1	0.3	>>>>	0.42	
GP-46S	4/3/2019 23:20	0.0	0.1	18.7	0	0.03	
GP-47D	4/24/2019 13:04	0.0	0.6	15.4	0	-0.26	
GP-47I	4/24/2019 13:03	6.7	4.9	14.0	>>>>	-1.96	
GP-47S	4/24/2019 13:00	0.0	0.1	20.4	0	-1.62	
GP-48D	4/3/2019 23:35	13.7	4.0	13.7	>>>>	-0.14	
GP-48I	4/3/2019 23:33	0.0	0.1	20.9	0	0.07	
GP-48S	4/3/2019 23:31	0.1	0.6	16.7	2	0.04	
GP-52	4/24/2019 12:52	0.0	0.1	20.1	0	0.41	
GP-53	4/24/2019 12:54	0.0	0.2	19.6	0	-0.49	
GP-54	4/24/2019 12:55	0.0	0.1	20.4	0	-0.83	
GP-55	4/3/2019 21:06	16.2	9.4	9.7	>>>>	-0.48	
GP-56	4/3/2019 21:08	0.0	0.3	20.6	0	-0.02	
GP-57	4/3/2019 21:02	33.8	19.1	5.7	>>>>	-8.27	
GP-58	4/3/2019 21:01	0.7	17.9	6.5	14	-9.79	
GP-59	4/3/2019 20:56	0.0	0.2	20.2	0	-0.48	
GP-60	4/3/2019 20:54	0.0	0.1	20.1	0	0.16	
GP-61	4/3/2019 20:26	0.0	1.9	18.8	0	0.1	
GP-62	4/3/2019 20:24	0.0	1.6	19.4	0	0.08	

**CEDAR HILLS REGIONAL LANDFILL**  
**Interior Landfill Gas Probes**  
**May 2019 Monitoring**

<b>Probe ID</b>	<b>Date/Time</b>	<b>CH4 %vol</b>	<b>CO2 %vol</b>	<b>O2 %vol</b>	<b>Lower Explosive Limit %LEL</b>	<b>Static Pressure in INWC</b>	<b>Comments</b>
ATC-03D	5/15/2019 13:14	0.0	0.0	0.0	0	1.99	NR H20
ATC-03S	5/15/2019 13:10	0.0	0.7	17.9	0	0.17	
GP-B4-1	5/19/2019 21:17	0.0	2.7	18.1	0	-0.33	
GP-B4-2	5/19/2019 21:19	0.0	2.4	19.3	0	0.06	
GP-1A	5/19/2019 20:44	0.0	0.5	21.0	0	0	
GP-1B	5/19/2019 20:45	0.0	0.2	21.0	0	-0.02	
GP-2A	5/19/2019 21:06	0.0	8.3	6.7	0	-0.04	
GP-2B	5/19/2019 21:08	0.0	0.2	21.0	0	0.55	
GP-3	5/19/2019 21:21	0.0	11.8	12.1	0	-0.02	
GP-4A	5/19/2019 21:12	0.0	10.8	3.7	0	-0.04	
GP-4B	5/19/2019 21:14	0.0	0.2	21.0	0	0.02	
GP-5A	5/15/2019 12:55	0.0	0.5	12.3	0	3.03	
GP-5BA	5/19/2019 12:58	0.0	0.0	0.0	0	0.42	NR H20
GP-5BB	5/15/2019 12:59	0.0	1.2	14.1	0	3.13	
GP-5BC	5/15/2019 13:01	0.0	0.9	13.3	0	3.1	
GP-5BD	5/15/2019 13:02	0.0	0.8	9.9	0	0.1	
GP-6A	5/19/2019 20:51	0.0	2.2	8.8	0	0.08	
GP-6B	5/19/2019 20:53	0.0	4.2	5.0	0	0.41	
GP-6C	5/19/2019 20:54	0.0	1.0	15.5	0	0.37	
GP-6D	5/19/2019 20:55	0.0	4.5	1.1	0	-0.15	
GP-6E	5/19/2019 20:57	0.0	2.4	8.4	0	0.36	
GP-6F	5/19/2019 20:58	0.0	2.3	7.7	0	0.51	
GP-6G	5/19/2019 21:00	0.0	1.5	12.3	0	0.37	
GP-6H	5/19/2019 21:01	0.0	4.3	1.8	0	-0.14	
GP-7	5/19/2019 20:40	0.0	3.7	11.3	0	0.04	
GP-8	5/19/2019 20:37	0.0	3.5	14.0	0	0.04	
GP-9	5/19/2019 20:06	0.0	2.1	14.8	0	0.24	
GP-46D	5/19/2019 21:26	0.0	0.2	19.7	0	-0.11	
GP-46I	5/19/2019 21:28	15.9	1.6	0.1	>>>>	1.68	
GP-46S	5/19/2019 21:30	0.9	3.0	11.6	18	-0.25	
GP-47D	5/15/2019 11:58	0.0	1.6	14.5	0	1.12	
GP-47I	5/15/2019 11:57	52.7	26.3	0.0	>>>>	3.26	
GP-47S	5/15/2019 11:55	63.8	25.1	0.0	>>>>	3.35	
GP-48D	5/19/2019 21:36	0.0	1.0	14.8	0	-0.14	
GP-48I	5/19/2019 21:37	0.0	0.2	21.0	0	-0.05	
GP-48S	5/19/2019 21:39	0.0	12.5	5.1	0	0.05	
GP-52	5/15/2019 11:41	0.0	1.0	17.9	0	0	
GP-53	5/15/2019 11:43	0.0	0.5	18.3	0	1.16	
GP-54	5/15/2019 11:48	4.9	7.1	12.5	98	0.03	
GP-55	5/19/2019 20:30	20.8	13.7	0.0	>>>>	0.11	
GP-56	5/19/2019 20:32	0.0	1.6	16.8	0	-0.17	
GP-57	5/19/2019 20:24	38.2	21.1	4.7	>>>>	-8.32	
GP-58	5/19/2019 20:26	1.4	25.6	0.3	28	13.01	
GP-59	5/19/2019 20:12	26.1	10.7	6.2	>>>>	0.17	
GP-60	5/19/2019 20:17	0.0	0.1	21.0	0	-0.04	
GP-61	5/19/2019 19:58	0.0	2.0	18.0	0	0.08	
GP-62	5/19/2019 20:01	0.0	1.8	19.6	0	-0.03	

**CEDAR HILLS REGIONAL LANDFILL**  
**Interior Landfill Gas Probes**  
**June 2019 Monitoring**

<b>Probe ID</b>	<b>Date/Time</b>	<b>CH4 %vol</b>	<b>CO2 %vol</b>	<b>O2 %vol</b>	<b>Lower Explosive Limit %LEL</b>	<b>Static Pressure in INWC</b>	<b>Comments</b>
ATC-03D	6/18/2019 14:24	0.0	0.1	21.0	0	0.07	
ATC-03S	6/18/2019 14:22	0.0	0.6	21.0	0	-0.33	
GP-B4-1	6/20/2019 23:36	0.2	1.3	20.2	4	-0.54	
GP-B4-2	6/20/2019 23:38	0.2	0.1	21.0	4	-0.1	
GP-1A	6/20/2019 22:47	0.2	0.5	20.8	4	0.14	
GP-1B	6/20/2019 22:49	0.2	0.2	21.0	4	0.14	
GP-2A	6/20/2019 23:17	0.2	7.9	11.0	4	0.1	
GP-2B	6/20/2019 23:19	0.2	0.1	21.0	4	0.11	
GP-3	6/20/2019 23:42	0.2	10.8	14.4	4	0.02	
GP-4A	6/20/2019 23:27	0.2	10.2	12.2	4	0.02	
GP-4B	6/20/2019 23:30	0.2	0.2	21.0	4	0.04	
GP-5A	6/18/2019 14:07	0.0	0.1	21.0	0	-2.7	
GP-5BA	6/18/2019 14:10	0.0	0.2	21.0	0	0.16	
GP-5BB	6/18/2019 14:12	0.0	0.0	21.0	0	-2.84	
GP-5BC	6/18/2019 14:15	0.0	0.0	21.0	0	-2.85	
GP-5BD	6/18/2019 14:17	0.0	0.0	21.0	0	-2.63	
GP-6A	6/20/2019 22:55	0.2	0.1	21.0	4	-0.44	
GP-6B	6/20/2019 22:57	0.2	0.1	21.0	4	0.14	
GP-6C	6/20/2019 22:59	0.2	0.1	21.0	4	0.17	
GP-6D	6/20/2019 23:01	0.2	0.1	21.0	4	-0.31	
GP-6E	6/20/2019 23:03	0.2	0.1	21.0	4	0.2	
GP-6F	6/20/2019 23:04	0.2	0.1	21.0	4	0.18	
GP-6G	6/20/2019 23:06	0.2	1.2	13.6	4	0.17	
GP-6H	6/20/2019 23:09	0.2	0.1	21.0	4	-0.01	
GP-7	6/20/2019 22:17	0.2	0.1	21.0	4	0.07	
GP-8	6/20/2019 22:12	0.2	0.3	20.0	4	0.1	
GP-9	6/20/2019 21:29	0.2	0.2	20.6	4	0.23	
GP-46D	6/20/2019 23:52	0.2	0.1	21.0	4	-0.19	
GP-46I	6/20/2019 23:50	1.8	0.3	19.4	36	0.04	
GP-46S	6/20/2019 23:48	0.2	0.2	20.4	4	-0.01	
GP-47D	6/19/2019 7:18	0.0	0.5	19.0	0	0.1	
GP-47I	6/19/2019 7:17	0.0	1.6	17.9	0	-1.14	
GP-47S	6/19/2019 7:15	0.0	0.1	20.1	0	-0.8	
GP-48D	6/21/2019 0:02	0.2	0.1	21.0	4	0.04	
GP-48I	6/21/2019 0:00	0.2	0.2	21.0	4	-0.08	
GP-48S	6/20/2019 23:58	0.2	0.4	18.9	4	-0.92	
GP-52	6/19/2019 7:25	0.0	2.3	15.0	0	0.08	
GP-53	6/19/2019 7:26	0.0	0.4	19.6	0	0	
GP-54	6/19/2019 7:28	0.0	0.1	20.4	0	-0.03	
GP-55	6/20/2019 22:04	7.5	1.7	15.9	>>>>	0.27	
GP-56	6/20/2019 22:01	0.3	1.9	17.5	6	0.11	
GP-57	6/20/2019 21:56	39.5	21.6	4.3	>>>>	-6.9	
GP-58	6/20/2019 21:53	2.2	29.8	0.1	44	0.19	
GP-59	6/20/2019 21:46	2.0	1.4	15.4	40	0.34	
GP-60	6/20/2019 21:44	0.2	0.2	20.6	4	0.12	
GP-61	6/20/2019 21:22	0.2	0.8	20.1	4	0.25	
GP-62	6/20/2019 21:20	0.1	2.0	19.2	2	0.07	

## Migration Probes



**CEDAR HILLS REGIONAL LANDFILL**  
**West Perimeter Landfill Gas Migration Control Probes**  
**Second Quarter 2019 Monitoring**

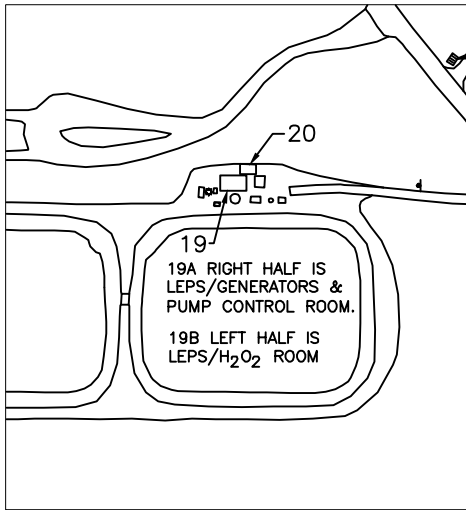
Probe ID	Date	Time	Barometric			Static		Comments
			Pressure in Hg	CH <sub>4</sub> % Vol	CO <sub>2</sub> % Vol	O <sub>2</sub> % Vol	Pressure in INWC	
MGPW 1700	4/8/2019	1:21pm	29.91	0.0	0.2	20.6	-0.01	
MGPW 1700	4/22/2019	0.5243056	30.15	0.0	0.3	20.5	0.06	
MGPW 1700	5/7/2019	2:14pm	30.02	0.0	0.1	20.3	0.01	
MGPW 1700	5/16/2019	12:43pm	29.59	0.0	0.2	20.1	0.01	
MGPW 1700	6/6/2019	10:27AM	29.93	0.0	0.1	20.8	0.01	
MGPW 1700	6/18/2019	11:13am	30.09	0.0	0.2	20.0	0.1	
MGPW 1708	4/8/2019	1:30pm	29.91	0.0	0.2	20.6	-0.41	
MGPW 1708	4/22/2019	0.5152778	30.15	0.0	0.2	20.8	-0.68	
MGPW 1708	5/7/2019	2:31pm	30.02	0.0	0.1	20.1	-1.23	
MGPW 1708	5/16/2019	12:47pm	29.59	0.0	2.7	20.1	0.04	
MGPW 1708	6/6/2019	10:25am	29.93	0.0	0.1	20.7	-0.4	
MGPW 1708	6/18/2019	11:03am	30.09	0.0	0.2	20.1	-1.46	
MGPW 1710S	4/8/2019	1:36pm	29.91	0.0	0.1	20.7	-0.35	
MGPW 1710S	4/22/2019	0.5118056	30.15	0.0	0.2	20.8	-0.57	
MGPW 1710S	5/7/2019	2:40pm	30.02	0.0	0.1	20.1	-1.01	
MGPW 1710S	5/16/2019	1:04pm	29.59	0.1	0.5	20.1	0.03	
MGPW 1710S	6/6/2019	10:20am	29.93	0.0	0.1	20.6	-0.36	
MGPW 1710S	6/18/2019	10:56am	30.09	0.0	0.2	20.0	-1.1	
MGPW 1710D	4/8/2019	1:39pm	29.91	0.0	0.1	20.8	-0.38	
MGPW 1710D	4/22/2019	0.5131944	30.15	0.0	0.2	20.8	-0.57	
MGPW 1710D	5/7/2019	2:43pm	30.02	0.0	0.1	20.2	-1.07	
MGPW 1710D	5/16/2019	1:06pm	29.59	0.0	11.6	8.8	0.12	
MGPW 1710D	6/6/2019	10:22am	29.93	0.0	0.1	20.7	-0.45	
MGPW 1710D	6/18/2019	10:59am	30.09	0.0	0.1	20.4	-1.4	
MGPW 1714	4/8/2019	1:42pm	29.91	0.0	0.1	20.9	-0.38	
MGPW 1714	4/22/2019	0.5104167	30.15	0.0	0.2	20.0	-0.58	
MGPW 1714	5/7/2019	2:51pm	30.02	0.0	0.1	20.2	-1	
MGPW 1714	5/16/2019	1:13pm	29.59	0.0	2.9	15.5	0.12	
MGPW 1714	6/6/2019	10:16am	29.93	0.0	0.1	20.6	-0.26	
MGPW 1714	6/18/2019	10:48am	30.09	0.0	0.2	20.0	-1.41	

## On-Site Building Monitoring

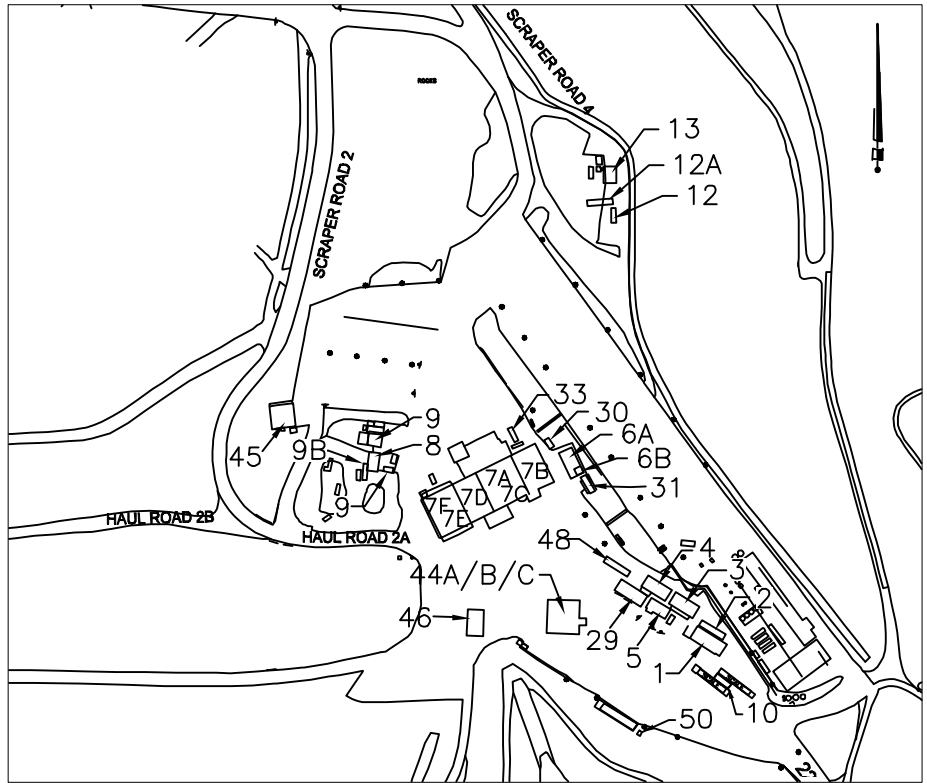




### Aeration Ponds

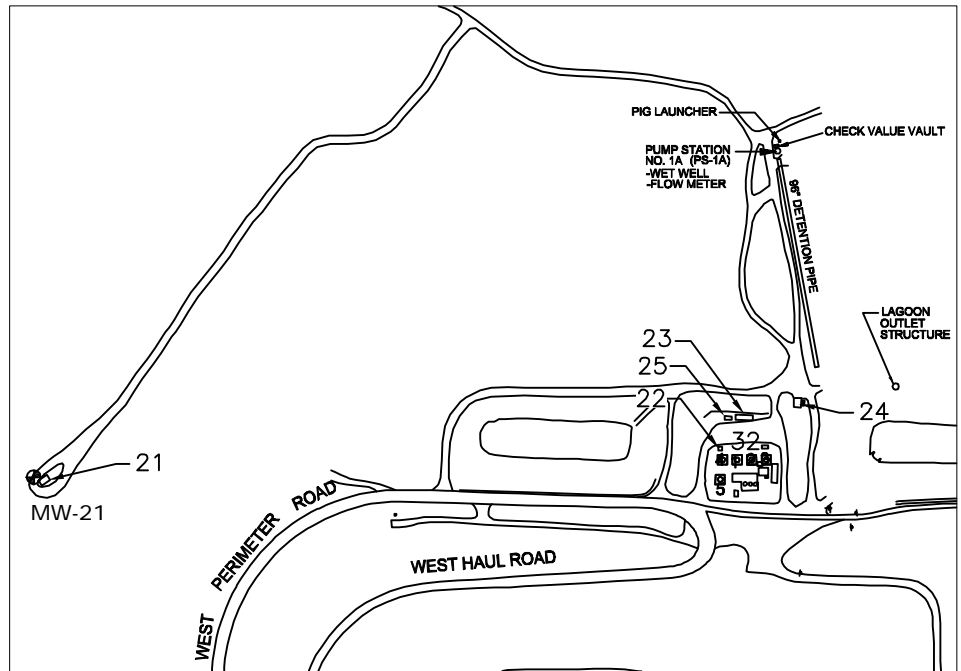


### Shop and Office Buildings



BUILDING NO.	EO Description
1	Front Office
2	Conference Room
3	Vacant (Old Payroll Trailer)
4	Engineering Trailer
5	Lunch Room Trailer
6A	Dry Storage
6B	Electrician Office
7	Maintenance Shop
7A	Shop Office
7B	Stores—Shipping/Receiving
7C	Trailer Bay and Pit Area
7D	Tire Shop and Trailer Bay
7E	East Weld Shop
7F	West Weld Shop
8	Carpenter's Shop
9	Wastewater Shed
9B	Carpenter Storage
10	Scale House
11	New Eqpt. Operator's Trailer
12	EQ. Operator's Trailer (Old)
13	WW Compressor
16	Generator (Not Shown)
19	LEPS (P.S. #5)
19A	LEPS Pump Control Room
19B	LEPS/H <sub>2</sub> O <sub>2</sub> room
20	LEPS, Elec Panels
21	Storage (Old PS1)
22	Storage/N.Flare
23	LFGAS Office
24	NE Generator Bldg.
25	Storage BLDG. @ N.F.S.
29	OPS Administration Office
30	Women Brk Rm.
31	Landfill Leads/Accts Payable
32	North Flare Station
33	SPOC trailer
44A	Truck Wash West Restroom
44B	Truck Wash East Restroom
44C	Pressure Wash Room
45	Heavy Equipment Canopy
46	Fuel Island
48	Operations Planning
49	CCG FASTER (Not Shown)
50	Chlorine Shed

### North Flare Station



### CEDAR HILLS REGIONAL LANDFILL BUILDING NUMBERS

Source: KCSWD, February 2012



**King County**

## Landfill Gas Structure Monitoring Location

Environmental Monitoring Sampling and Analysis Plan  
Cedar Hills Regional Landfill, King County, Washington

DATE: February 2012

DESIGNED BY:

DRAWN BY:

REVISED BY:

PROJECT NO.

FIGURE NO.

**SECOND QUARTER  
BUILDING MONITORING**

 <b>King County</b>		INSTRUMENT: Place check by instrument used Foxboro TVA 1000 (sn. 301) Foxboro TVA 1000 (sn. 732)			WEATHER:  Sunny		DATE: 04/17/19 TECH: BL	
ENVIS ID	BLDG #	DESCRIPTION	CH <sub>4</sub> (ppm)	REMARKS	BAR PRESS (in. Hg)	TIME		
GOC- 04/17/19	1	FRONT OFFICE	X		30.19	6:30pm		
GCR- 04/17/19	2	CONF ROOM	X					
GAO- 04/17/19	3	PAYROLL OFFICE	X					
GEO- 04/17/19	4	ENGR. OFFICE	X					
GLRC- 04/17/19	5	LUNCHROOM	X					
GSPC 04/17/19		SPOC	X					
GELO- 04/17/19 A	6A	DRY STORAGE	X					
GELO- 04/17/19 B	6B	ELECTRICIAN OFFICE	X					
GAP- 04/17/19		ACCOUNT PAYABLE	X					
GSO- 04/17/19 A	7A	SHOP OFFICE	X					
GPR- 04/17/19 B	7B	PARTS ROOM	X					
GMS- 04/17/19 C	7C	SHOP PIT AREA/BAY	X					
GTB- 04/17/19 D	7D	SHOP TIRE BAY	X					
GEW- 04/17/19 E	7E	EAST WELD SHOP	X					
GWW- 04/17/19 F	7F	WEST WELD SHOP	X					
GCS- 04/17/19	8	CARPENTER'S	X					
GSS- 04/17/19	9	WASTEWATER	N/A	Building Removed				
GSS- 04/17/19 B	9B	CARPENTER/STORAGE	X					
GSH- 04/17/19	10	SCALEHOUSE	X					
GB13- 04/17/19	13	WW COMPRESSOR	X					
GB16- 04/17/19	16	GENERATOR	X					
GB19- 04/17/19	19	LEPS (P.S.# 5)	X					
GB19- 04/17/19 B	19B	LEPS/H <sub>2</sub> O <sub>2</sub> ROOM	X					
GB20- 04/17/19	20	LEPS ELEC PANALS	X					
GB21- 04/17/19	21	STORAGE(OLD PS 1)	X					
GB22- 04/17/19	22	STORAGE/N FLARE	X					
GB23- 04/17/19	23	LFGAS	X					
GB24- 04/17/19	24	NE GENERATOR BLDG	X					
GBWW- 04/17/19	30	WOMEN BRK RM	X					
GPWT- 04/17/19	PW	PRESSURE WASH RM	X					
GBRR- 04/17/19	RR	TRUCKWASH RR W	X					
GBSS- 04/17/19	SS	TRUCKWASH RR E	X					
GBZZ- 04/17/19	29	MANAGERS TRAILER	X					
GBPT- 04/17/19		CCG FASTER	X					
GCLS- 04/17/19		CHLORINE SHED	X					

# **APPENDIX C**

## **Meteorological Data**



Meteorological Data

	Wind Speed (Average)	Wind Direction	Sigma Theta	2 M Temperature (Average)	Barometric Pressure	Precipitation
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
4/1/2019 0:00	3.714	89.1	33.96	8.91	29.29	0
4/1/2019 0:15	2.552	70.05	42.42	8.72	29.29	0
4/1/2019 0:30	3.119	34.62	4.784	8.77	29.29	0
4/1/2019 0:45	3.895	10.79	12.84	8.97	29.29	0
4/1/2019 1:00	3.146	17.87	9.56	9.05	29.24	0
4/1/2019 1:15	1.718	54.99	17.5	8.89	29.24	0
4/1/2019 1:30	1.646	56.78	20.83	8.64	29.24	0
4/1/2019 1:45	4.24	13.51	7.648	8.4	29.24	0
4/1/2019 2:00	4.784	9.57	10.37	7.856	29.26	0
4/1/2019 2:15	3.552	13.14	4.314	7.607	29.26	0
4/1/2019 2:30	1.839	38.12	7.455	6.965	29.26	0
4/1/2019 2:45	2.372	39.48	13.27	6.943	29.26	0
4/1/2019 3:00	1.434	28.87	13.72	7.321	29.24	0
4/1/2019 3:15	0.974	7.309	0.096	8.27	29.24	0
4/1/2019 3:30	1.837	23.35	15.28	7.625	29.24	0
4/1/2019 3:45	1.333	46.53	0.302	6.674	29.24	0
4/1/2019 4:00	2.092	30.37	9.77	6.554	29.24	0
4/1/2019 4:15	1.747	22.51	0.834	6.532	29.24	0
4/1/2019 4:30	3.4	16.77	2.259	6.064	29.24	0
4/1/2019 4:45	3.263	18.61	7.101	5.75	29.24	0
4/1/2019 5:00	4.781	22.59	5.967	5.565	29.24	0
4/1/2019 5:15	5.03	20.36	9.43	5.449	29.24	0
4/1/2019 5:30	3.971	27.9	6.08	5.097	29.24	0
4/1/2019 5:45	4.186	30.58	4.638	5.003	29.24	0
4/1/2019 6:00	5.849	26.56	6.972	4.712	29.24	0
4/1/2019 6:15	5.743	25.74	8.2	5.015	29.24	0
4/1/2019 6:30	5.359	27.68	10.91	4.892	29.24	0
4/1/2019 6:45	6.358	23.83	8.5	5.232	29.24	0
4/1/2019 7:00	6.131	30.28	9.64	5.271	29.23	0
4/1/2019 7:15	6.29	32.71	8.48	6.022	29.23	0
4/1/2019 7:30	5.758	33.16	8.03	6.641	29.23	0
4/1/2019 7:45	6.136	26.72	8.34	7.541	29.23	0
4/1/2019 8:00	6.762	23.24	9.28	8.83	29.2	0
4/1/2019 8:15	5.708	15.81	11.47	9.46	29.2	0
4/1/2019 8:30	2.365	357.9	30.99	10.01	29.2	0
4/1/2019 8:45	2.057	42.31	23.87	10.79	29.2	0
4/1/2019 9:00	1.824	43.07	12.58	11.3	29.21	0
4/1/2019 9:15	2.513	57.78	17.15	11.43	29.21	0
4/1/2019 9:30	3.224	54.98	16.78	11.53	29.21	0
4/1/2019 9:45	2.88	33.37	12.74	11.49	29.21	0
4/1/2019 10:00	3.001	33.33	10.62	11.68	29.19	0

Meteorological Data

4/1/2019 10:15	2.999	28.57	14.11	12.32	29.19	0
4/1/2019 10:30	2.571	21.74	16.63	13.71	29.19	0
4/1/2019 10:45	2.843	330.3	40.81	15.26	29.19	0
4/1/2019 11:00	2.682	25.86	15.32	15.39	29.19	0
4/1/2019 11:15	3.917	344.5	44.15	15.97	29.19	0
4/1/2019 11:30	3.854	331.4	40.85	16.94	29.19	0
4/1/2019 11:45	4.433	316.7	31.95	17.27	29.19	0
4/1/2019 12:00	6.309	280.6	9.82	17.36	29.17	0
4/1/2019 12:15	6.798	276.1	8.04	17.53	29.17	0
4/1/2019 12:30	7.178	280	10.57	17.83	29.17	0
4/1/2019 12:45	8.07	278.9	7.564	17.85	29.17	0
4/1/2019 13:00	8.14	281	9.42	17.93	29.15	0
4/1/2019 13:15	7.637	282.1	17	18.61	29.15	0
4/1/2019 13:30	7.446	269.7	12.43	19.03	29.15	0
4/1/2019 13:45	8.19	276.8	10.59	18.9	29.15	0
4/1/2019 14:00	8.79	294.2	17.09	19.08	29.13	0
4/1/2019 14:15	9.95	282.6	8.06	17.73	29.13	0
4/1/2019 14:30	8.35	286.8	8.7	17.6	29.13	0
4/1/2019 14:45	7.512	295.4	14.08	18.21	29.13	0
4/1/2019 15:00	7.261	315.2	25.63	19.11	29.12	0
4/1/2019 15:15	3.4	351.1	52.17	20.05	29.12	0
4/1/2019 15:30	9.6	105.9	44.76	20.04	29.12	0
4/1/2019 15:45	11.71	132.8	19.96	19.85	29.12	0
4/1/2019 16:00	9.5	120.4	23.62	19.89	29.1	0
4/1/2019 16:15	10.33	107.6	16.54	19.6	29.1	0
4/1/2019 16:30	11.43	116.9	13.53	19.39	29.1	0
4/1/2019 16:45	11.12	115.5	13.72	19.33	29.1	0
4/1/2019 17:00	11.31	107.4	14.37	18.99	29.09	0
4/1/2019 17:15	9	105.3	18.75	19.04	29.09	0
4/1/2019 17:30	10.55	121.1	16.43	18.74	29.09	0
4/1/2019 17:45	10.12	106.9	18.06	18.38	29.09	0
4/1/2019 18:00	9.41	117.9	13.38	18.18	29.11	0
4/1/2019 18:15	6.336	111.9	16.51	17.84	29.11	0
4/1/2019 18:30	5.45	95.4	17.88	17.52	29.11	0
4/1/2019 18:45	6.321	90.8	20.14	17.11	29.11	0
4/1/2019 19:00	6.767	87.3	18.74	16.82	29.11	0
4/1/2019 19:15	7.033	93.1	20.41	16.58	29.11	0
4/1/2019 19:30	8.79	85.5	19.92	16.52	29.11	0
4/1/2019 19:45	8.27	91.5	16.54	16.5	29.11	0
4/1/2019 20:00	8.59	87.9	16.55	16.46	29.08	0
4/1/2019 20:15	7.859	83.2	20.45	16.35	29.08	0
4/1/2019 20:30	7.102	77.66	18.93	16.19	29.08	0
4/1/2019 20:45	7.278	91.1	16.3	16.06	29.08	0
4/1/2019 21:00	6.917	105.6	18.6	15.73	29.1	0
4/1/2019 21:15	7.76	103.9	16.98	15.71	29.1	0
4/1/2019 21:30	7.297	104.5	11.19	15.61	29.1	0
4/1/2019 21:45	6.459	109.8	13.16	15.38	29.1	0

Meteorological Data

4/1/2019 22:00	3.037	81.9	24.98	15.06	29.09	0
4/1/2019 22:15	4.509	68.08	22.58	15.19	29.09	0
4/1/2019 22:30	4.77	77.24	19.84	15.06	29.09	0
4/1/2019 22:45	5.475	70.43	18.1	14.64	29.09	0
4/1/2019 23:00	5.422	51.21	11.39	13.53	29.08	0
4/1/2019 23:15	5.128	60.91	23.41	13.7	29.08	0
4/1/2019 23:30	4.752	31.88	12.32	12.57	29.08	0
4/1/2019 23:45	5.764	44.76	20.22	12.81	29.08	0
4/2/2019 0:00	5.476	49.34	31.88	13.03	29.04	0
4/2/2019 0:15	3.797	49.54	19.65	12.44	29.04	0
4/2/2019 0:30	3.238	31.58	20.51	12.43	29.04	0
4/2/2019 0:45	3.932	43.19	26.19	13.13	29.04	0
4/2/2019 1:00	4.818	73.4	29.91	13.54	29.06	0
4/2/2019 1:15	5.974	77.85	21.42	13.54	29.06	0
4/2/2019 1:30	6.856	76.63	21.29	13.11	29.06	0
4/2/2019 1:45	5.89	61.45	17.61	12.28	29.06	0
4/2/2019 2:00	5.191	55.21	12.53	11.24	29.02	0
4/2/2019 2:15	4.815	53.08	17.13	11.02	29.02	0
4/2/2019 2:30	5.603	70.97	15.03	11.1	29.02	0
4/2/2019 2:45	5.741	70.47	17.85	10.62	29.02	0
4/2/2019 3:00	4.477	65.35	30.75	10.44	29.02	0
4/2/2019 3:15	3.326	45.72	21.47	10.31	29.02	0
4/2/2019 3:30	4.152	19.72	14.19	11.1	29.02	0
4/2/2019 3:45	3.454	6.253	15.6	11.43	29.02	0
4/2/2019 4:00	2.99	11.8	18.6	11.74	29	0
4/2/2019 4:15	2.693	19.57	15.55	11.12	29	0
4/2/2019 4:30	3.817	38.4	29.9	10.58	29	0
4/2/2019 4:45	4.432	24.96	14.63	10.02	29	0
4/2/2019 5:00	4.974	18.92	12.16	10.03	29	0
4/2/2019 5:15	5.395	20.75	9.4	9.67	29	0
4/2/2019 5:30	5.613	23.55	9.45	10.06	29	0
4/2/2019 5:45	5.077	21.37	8.34	9.85	29	0
4/2/2019 6:00	6.046	16.22	8.19	9.68	28.99	0
4/2/2019 6:15	5.872	10.16	9.61	10.41	28.99	0
4/2/2019 6:30	5.727	5.068	12.76	10.97	28.99	0
4/2/2019 6:45	4.5	11.39	11.65	11.42	28.99	0
4/2/2019 7:00	4.586	12.04	12.61	11.14	28.99	0
4/2/2019 7:15	5.648	15.37	7.216	11.11	28.99	0
4/2/2019 7:30	4.142	15.01	8.45	11.28	28.99	0
4/2/2019 7:45	4.239	27.54	7.947	12.13	28.99	0
4/2/2019 8:00	3.488	28.08	7.554	12.13	28.98	0
4/2/2019 8:15	2.875	20.32	13.9	12.19	28.98	0
4/2/2019 8:30	1.942	27.25	12.65	12.83	28.98	0
4/2/2019 8:45	1.464	26.75	31.96	13.24	28.98	0
4/2/2019 9:00	2.163	30.27	12.29	13.17	28.98	0
4/2/2019 9:15	1.418	58.81	27.12	14.08	28.98	0
4/2/2019 9:30	1.671	65.96	46.83	14.83	28.98	0

Meteorological Data

4/2/2019 9:45	2.168	42.95	47.22	15.46	28.98	0
4/2/2019 10:00	1.318	52.41	40.57	16.32	28.99	0
4/2/2019 10:15	5.283	99.8	55.82	16.69	28.99	0
4/2/2019 10:30	6.836	130.2	35.59	18.03	28.99	0
4/2/2019 10:45	11.25	151	20.36	18.52	28.99	0
4/2/2019 11:00	9.32	135.2	16.49	18.64	28.97	0
4/2/2019 11:15	12.28	124.2	16.45	18.52	28.97	0
4/2/2019 11:30	13.42	117.3	21.06	18.72	28.97	0
4/2/2019 11:45	11.65	120.1	20.56	18.98	28.97	0
4/2/2019 12:00	10.68	123.1	25.49	19.21	28.96	0
4/2/2019 12:15	9.17	137.5	29.75	19.59	28.96	0
4/2/2019 12:30	9.57	137.1	21.77	19.68	28.96	0
4/2/2019 12:45	7.324	151.1	42.48	19.73	28.96	0
4/2/2019 13:00	6.053	104.8	37.1	19.69	28.93	0
4/2/2019 13:15	5.691	146.6	37.98	19.81	28.93	0
4/2/2019 13:30	7.609	200.7	32.47	20.2	28.93	0
4/2/2019 13:45	12.06	275.7	10.4	19.24	28.93	0
4/2/2019 14:00	11.62	280.1	7.636	18.79	28.94	0
4/2/2019 14:15	12.98	272.8	8.5	18.49	28.94	0
4/2/2019 14:30	10.55	282.7	12.89	18.25	28.94	0
4/2/2019 14:45	10.59	295.8	10.8	18.01	28.94	0
4/2/2019 15:00	12	292.8	8.65	17.7	28.92	0
4/2/2019 15:15	10.66	294.8	8.61	17.52	28.92	0
4/2/2019 15:30	8.6	291.5	9.93	17.41	28.92	0
4/2/2019 15:45	7.506	292	24.36	17.38	28.92	0
4/2/2019 16:00	5.245	244.1	20.21	17.52	28.95	0
4/2/2019 16:15	4.111	268.4	16.93	17.42	28.95	0
4/2/2019 16:30	6.32	252.7	10.6	17.39	28.95	0
4/2/2019 16:45	8.1	222.7	10	17.2	28.95	0
4/2/2019 17:00	9.27	230.5	6.763	16.82	28.96	0
4/2/2019 17:15	10.29	223.1	10.26	16.41	28.96	0
4/2/2019 17:30	10.29	216.3	10.97	16.21	28.96	0
4/2/2019 17:45	13.2	234.4	8.86	15.7	28.96	0
4/2/2019 18:00	13	239.3	6.691	15.14	28.96	0
4/2/2019 18:15	9.36	243.6	8.74	14.83	28.96	0
4/2/2019 18:30	8.74	238.5	10.44	14.56	28.96	0
4/2/2019 18:45	5.59	230.9	11.98	14.36	28.96	0
4/2/2019 19:00	7.649	239.2	13.51	14.13	28.96	0
4/2/2019 19:15	8.62	235.5	8.35	13.94	28.96	0
4/2/2019 19:30	6.669	224.9	13.5	13.74	28.96	0
4/2/2019 19:45	7.463	223.5	13.52	13.52	28.96	0
4/2/2019 20:00	8.3	224.7	9.17	13.31	28.97	0
4/2/2019 20:15	8.6	214.8	9.12	13	28.97	0
4/2/2019 20:30	7.764	235	10.3	12.8	28.97	0
4/2/2019 20:45	8.6	236.4	9.71	12.51	28.97	0
4/2/2019 21:00	4.648	261.5	12.3	12.28	28.99	0
4/2/2019 21:15	5.406	230.6	15.53	12.18	28.99	0



Meteorological Data

4/2/2019 21:30	4.531	224.5	7.355	12.09	28.99	0
4/2/2019 21:45	4.065	215.5	5.282	11.93	28.99	0
4/2/2019 22:00	3.365	214.2	4.878	11.7	28.98	0
4/2/2019 22:15	1.767	222	4.368	11.61	28.98	0
4/2/2019 22:30	1.294	120.1	25.59	11.41	28.98	0
4/2/2019 22:45	0.711	104	2.304	11.39	28.98	0
4/2/2019 23:00	2.062	99.9	7.212	11.01	28.97	0
4/2/2019 23:15	2.942	118.9	5.708	10.85	28.97	0
4/2/2019 23:30	3.354	112.5	5.392	10.97	28.97	0
4/2/2019 23:45	3.063	120.5	5.35	10.95	28.97	0
4/3/2019 0:00	3.022	142	7.773	11.04	28.97	0
4/3/2019 0:15	2.765	166.7	10.78	10.88	28.97	0
4/3/2019 0:30	2.769	154.4	13.47	10.8	28.97	0
4/3/2019 0:45	2.833	128.8	8.61	10.64	28.97	0
4/3/2019 1:00	3.893	127.4	5.161	10.6	28.98	0
4/3/2019 1:15	4.185	144.2	7.111	10.48	28.98	0
4/3/2019 1:30	3.782	146.8	8.11	10.34	28.98	0
4/3/2019 1:45	4.551	135.7	6.111	10.34	28.98	0
4/3/2019 2:00	4.79	122.9	7.168	10.35	28.97	0
4/3/2019 2:15	5.311	127.6	10.85	10.4	28.97	0
4/3/2019 2:30	5.995	150.9	5.89	10.28	28.97	0
4/3/2019 2:45	7.37	157.6	6.336	10.31	28.97	0
4/3/2019 3:00	6.849	159.9	8.1	10.27	28.96	0
4/3/2019 3:15	5.954	153	9.1	10.23	28.96	0
4/3/2019 3:30	4.634	175.7	13.47	10.26	28.96	0
4/3/2019 3:45	4.299	172.6	13.06	10.15	28.96	0
4/3/2019 4:00	5.294	193.1	11.78	9.81	28.95	0.01
4/3/2019 4:15	5.171	192.5	9.11	9.66	28.95	0.01
4/3/2019 4:30	7.343	183.8	7.937	9.3	28.95	0.02
4/3/2019 4:45	8.21	163.3	11.32	9.27	28.95	0.01
4/3/2019 5:00	8.85	176.9	8.08	9.51	28.95	0
4/3/2019 5:15	7.945	172.4	9.81	9.55	28.95	0
4/3/2019 5:30	9.25	170.9	9.16	9.66	28.95	0
4/3/2019 5:45	7.962	154.7	8.1	9.46	28.95	0
4/3/2019 6:00	6.365	146.6	7.49	9.39	28.96	0.01
4/3/2019 6:15	5.283	140.2	8.8	9.33	28.96	0
4/3/2019 6:30	5.197	138.6	7.092	9.39	28.96	0
4/3/2019 6:45	6.311	133.1	6.146	9.56	28.96	0
4/3/2019 7:00	6.168	132	6.583	9.8	28.97	0
4/3/2019 7:15	6.232	128.7	9.42	10.13	28.97	0
4/3/2019 7:30	5.745	143.1	15.21	10.44	28.97	0
4/3/2019 7:45	3.975	147.9	15.05	10.6	28.97	0
4/3/2019 8:00	5.08	146.7	13.26	10.76	28.99	0
4/3/2019 8:15	6.25	153.8	8.71	10.82	28.99	0
4/3/2019 8:30	7.061	164.5	12.23	10.94	28.99	0
4/3/2019 8:45	9.53	198.5	11.87	10.9	28.99	0.01
4/3/2019 9:00	9.89	198.8	10.06	10.76	29.01	0

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4/3/2019 9:15	8.2	182.5	8.58	10.77	29.01	0.01
4/3/2019 9:30	7.857	177.1	9.41	11.05	29.01	0
4/3/2019 9:45	9.15	174.5	13.23	11.13	29.01	0
4/3/2019 10:00	8.26	163.5	16.38	11.45	28.99	0
4/3/2019 10:15	12.22	176.5	19.4	11.59	28.99	0
4/3/2019 10:30	11.82	201.5	9.39	11.8	28.99	0
4/3/2019 10:45	12.72	209.1	12.38	12.15	28.99	0.01
4/3/2019 11:00	14.69	198.1	9.75	13.1	29.02	0
4/3/2019 11:15	16.26	205	13.56	13.16	29.02	0
4/3/2019 11:30	18.61	233.1	24.32	12.17	29.02	0.05
4/3/2019 11:45	19.7	234.4	11.09	10.31	29.02	0.02
4/3/2019 12:00	15.62	237.4	11.21	10.64	29.04	0
4/3/2019 12:15	17.15	242.2	7.976	10.59	29.04	0
4/3/2019 12:30	15.69	243.3	8.72	11.25	29.04	0
4/3/2019 12:45	13.51	236.1	10.09	12.06	29.04	0
4/3/2019 13:00	19.46	230.8	10.78	12.18	29.06	0
4/3/2019 13:15	17.59	233.5	9.03	12.54	29.06	0
4/3/2019 13:30	19.51	229.2	10.39	12.75	29.06	0
4/3/2019 13:45	15.91	242.1	10	12.55	29.06	0
4/3/2019 14:00	13.2	249.3	10.71	12.26	29.09	0
4/3/2019 14:15	17.36	239.2	11.83	12.61	29.09	0
4/3/2019 14:30	21.02	232.1	10.02	12.58	29.09	0
4/3/2019 14:45	18.94	233.4	11.23	12.77	29.09	0
4/3/2019 15:00	17.98	233.5	9.29	12.63	29.11	0
4/3/2019 15:15	15.94	245.2	10.74	12.16	29.11	0
4/3/2019 15:30	13.57	239.6	15.71	11.6	29.11	0
4/3/2019 15:45	11.04	235.8	16.3	11.39	29.11	0
4/3/2019 16:00	11.62	237	11.22	11.38	29.13	0
4/3/2019 16:15	9.63	231	12.57	11.42	29.13	0
4/3/2019 16:30	13.69	228.5	15.49	11.43	29.13	0
4/3/2019 16:45	15.1	223.5	11.56	11.24	29.13	0
4/3/2019 17:00	12.45	225.9	9.37	11.06	29.12	0
4/3/2019 17:15	13.63	237.9	9.21	10.9	29.12	0
4/3/2019 17:30	11.06	228.7	9.8	10.78	29.12	0
4/3/2019 17:45	11.4	224	10.17	10.71	29.12	0
4/3/2019 18:00	13.03	213.8	7.468	10.7	29.15	0
4/3/2019 18:15	13.67	209.3	9.17	10.62	29.15	0
4/3/2019 18:30	13.23	224.7	9.27	10.36	29.15	0
4/3/2019 18:45	12.83	221.5	8.19	10.13	29.15	0
4/3/2019 19:00	15.51	219.4	8.31	9.78	29.15	0
4/3/2019 19:15	12.86	214.8	9.55	9.61	29.15	0
4/3/2019 19:30	13.47	216.8	8.79	9.51	29.15	0
4/3/2019 19:45	7.44	219.7	12.27	9.42	29.15	0
4/3/2019 20:00	9.69	218.6	10.03	9.4	29.17	0
4/3/2019 20:15	9.9	206.4	12.42	9.22	29.17	0
4/3/2019 20:30	8.88	200.2	9.59	9.04	29.17	0
4/3/2019 20:45	7.742	198.8	10.64	8.97	29.17	0

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4/3/2019 21:00	5.551	191.4	9.07	8.84	29.19	0
4/3/2019 21:15	5.45	188	9.57	8.66	29.19	0
4/3/2019 21:30	6.343	189.5	7.994	8.46	29.19	0
4/3/2019 21:45	7.531	198.6	7.267	8.39	29.19	0
4/3/2019 22:00	4.595	178.1	17.86	8.31	29.19	0
4/3/2019 22:15	2.354	113.1	33.57	8.04	29.19	0
4/3/2019 22:30	1.668	110.4	30.44	8.28	29.19	0
4/3/2019 22:45	2.447	122.9	26.61	8.28	29.19	0
4/3/2019 23:00	5.462	155.9	12.89	8.03	29.18	0
4/3/2019 23:15	7.376	157.7	13.05	7.954	29.18	0
4/3/2019 23:30	4.805	135.6	7.801	7.8	29.18	0
4/3/2019 23:45	8.14	153.8	5.615	7.724	29.18	0
4/4/2019 0:00	7.867	157.3	15.34	7.877	29.2	0
4/4/2019 0:15	6.118	169.1	10.19	7.892	29.2	0
4/4/2019 0:30	7.496	173.5	7.014	7.696	29.2	0
4/4/2019 0:45	4.719	130.3	46.07	7.412	29.2	0
4/4/2019 1:00	2.782	144.5	24.59	7.17	29.2	0
4/4/2019 1:15	2.907	115	11.66	7.303	29.2	0
4/4/2019 1:30	3.872	93.8	8.11	7.067	29.2	0
4/4/2019 1:45	4.041	117.6	12.14	7.219	29.2	0
4/4/2019 2:00	4.176	143.2	18.64	7.439	29.22	0
4/4/2019 2:15	4.124	131	6.188	7.351	29.22	0
4/4/2019 2:30	3.768	132.5	6.73	7.406	29.22	0
4/4/2019 2:45	2.68	149	12.37	7.23	29.22	0
4/4/2019 3:00	3.373	159.1	8.68	7.667	29.19	0
4/4/2019 3:15	1.961	79.56	21.43	6.857	29.19	0
4/4/2019 3:30	4.013	110.8	9.24	6.566	29.19	0
4/4/2019 3:45	2.418	90.9	8.97	6.968	29.19	0
4/4/2019 4:00	2.11	65.39	13.18	6.232	29.2	0
4/4/2019 4:15	2.187	56.43	14.62	6.069	29.2	0
4/4/2019 4:30	3.273	48.05	7.895	5.993	29.2	0
4/4/2019 4:45	2.963	46.6	10.8	5.815	29.2	0
4/4/2019 5:00	1.468	60.64	1.311	5.548	29.19	0
4/4/2019 5:15	1.707	77.14	17.33	5.494	29.19	0
4/4/2019 5:30	2.631	102.9	2.659	5.944	29.19	0
4/4/2019 5:45	2.873	121.5	6.562	6.387	29.19	0
4/4/2019 6:00	3.385	119.6	4.049	6.487	29.18	0
4/4/2019 6:15	2.904	110.5	8.42	6.723	29.18	0
4/4/2019 6:30	1.999	110.5	9.25	6.593	29.18	0
4/4/2019 6:45	2.085	119.6	7.558	6.592	29.18	0
4/4/2019 7:00	1.525	100.8	18.59	6.901	29.18	0
4/4/2019 7:15	1.149	93.3	2.081	7.41	29.18	0
4/4/2019 7:30	0.731	81.7	17.31	8.51	29.18	0
4/4/2019 7:45	1.073	85.6	21.95	9.06	29.18	0
4/4/2019 8:00	1.398	351.8	28.28	8.77	29.14	0
4/4/2019 8:15	2.04	1.036	22.79	8.64	29.14	0
4/4/2019 8:30	1.392	167	80.3	9.34	29.14	0

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4/4/2019 8:45	1.769	183.9	27.37	9.3	29.14	0
4/4/2019 9:00	1.334	30.72	75.19	10.22	29.15	0
4/4/2019 9:15	1.458	13.26	30.23	10.65	29.15	0
4/4/2019 9:30	1.606	299	20.95	11.24	29.15	0
4/4/2019 9:45	2.351	259	23.17	11.47	29.15	0
4/4/2019 10:00	1.472	243.4	48.59	12.06	29.12	0
4/4/2019 10:15	1.88	245.8	38.25	12.62	29.12	0
4/4/2019 10:30	2.933	113.3	37.33	13	29.12	0
4/4/2019 10:45	4.225	24.35	15.47	12.88	29.12	0
4/4/2019 11:00	3.8	329.5	29.09	13.36	29.11	0
4/4/2019 11:15	2.89	264.4	31.12	13.82	29.11	0
4/4/2019 11:30	1.053	311.2	67.02	14.73	29.11	0
4/4/2019 11:45	3.692	339.6	24.28	14.49	29.11	0
4/4/2019 12:00	2.005	0.374	52.24	14.97	29.09	0
4/4/2019 12:15	4.535	278.8	33.31	15.13	29.09	0
4/4/2019 12:30	5.675	285.2	39.33	15.32	29.09	0
4/4/2019 12:45	6.493	257.4	24.38	15.38	29.09	0
4/4/2019 13:00	7.576	263.2	23.69	15.37	29.05	0
4/4/2019 13:15	7.373	269.5	19.79	15.7	29.05	0
4/4/2019 13:30	7.319	262.6	29.49	15.77	29.05	0
4/4/2019 13:45	7.614	271.1	16.43	15.54	29.05	0
4/4/2019 14:00	8.04	281	16.37	15.79	29.06	0
4/4/2019 14:15	6.196	265	25.8	16.42	29.06	0
4/4/2019 14:30	5.609	262.7	33.63	16.32	29.06	0
4/4/2019 14:45	6.194	244.1	28.29	16.29	29.06	0
4/4/2019 15:00	7.251	262.1	22.25	16.09	29.01	0
4/4/2019 15:15	7.729	247.6	24.89	16.33	29.01	0
4/4/2019 15:30	8.73	250	11.08	15.98	29.01	0
4/4/2019 15:45	9.99	245	12.5	15.6	29.01	0
4/4/2019 16:00	9.58	233.2	11.39	15.24	29.01	0
4/4/2019 16:15	8.41	244.4	10.01	15.04	29.01	0
4/4/2019 16:30	7.467	256.6	12.64	14.84	29.01	0
4/4/2019 16:45	7.244	240.2	8.11	14.69	29.01	0
4/4/2019 17:00	6.694	239.8	10.01	14.59	29.02	0
4/4/2019 17:15	5.596	227.8	15.41	14.59	29.02	0
4/4/2019 17:30	6.295	216.9	8.46	14.51	29.02	0
4/4/2019 17:45	6.749	223.5	8.85	14.38	29.02	0
4/4/2019 18:00	6.367	220.6	6.987	14.28	29	0
4/4/2019 18:15	4.988	235.5	11.44	14.02	29	0
4/4/2019 18:30	4.511	240.1	5.95	13.67	29	0
4/4/2019 18:45	4.861	227.1	6.858	13.51	29	0
4/4/2019 19:00	5.514	223.6	3.734	13.24	29	0
4/4/2019 19:15	4.644	214.1	7.001	12.91	29	0
4/4/2019 19:30	4.215	194.7	12.49	12.57	29	0
4/4/2019 19:45	3.803	150.8	11.17	12.27	29	0
4/4/2019 20:00	3.768	115.7	13.8	12.1	28.99	0
4/4/2019 20:15	4.812	128.3	11.39	11.98	28.99	0

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4/4/2019 20:30	4.385	135.1	4.734	11.87	28.99	0.01
4/4/2019 20:45	4.236	105.7	13.31	11.75	28.99	0
4/4/2019 21:00	3.57	94.5	5.297	11.34	29	0
4/4/2019 21:15	4.881	103.2	4.508	11.36	29	0
4/4/2019 21:30	3.242	113.4	9.36	11.47	29	0
4/4/2019 21:45	1.729	118.5	17.81	11.71	29	0
4/4/2019 22:00	2.85	119	8.24	11.81	28.98	0
4/4/2019 22:15	1.955	119.2	1.635	11.66	28.98	0
4/4/2019 22:30	2.848	135	11.76	11.55	28.98	0
4/4/2019 22:45	3.215	143.4	12.44	11.45	28.98	0
4/4/2019 23:00	5.058	198	24.55	10.71	28.96	0.01
4/4/2019 23:15	5.02	217.2	5.229	10.17	28.96	0
4/4/2019 23:30	5.653	220.7	4.302	10.41	28.96	0
4/4/2019 23:45	4.478	223.6	7.706	10.22	28.96	0
4/5/2019 0:00	6.644	242.8	15.92	9.8	28.97	0
4/5/2019 0:15	3.537	252.1	4.971	9.67	28.97	0
4/5/2019 0:30	2.544	85.2	27	8.93	28.97	0
4/5/2019 0:45	2.83	112.2	23.76	8.79	28.97	0.02
4/5/2019 1:00	2.851	108	9.88	9.02	28.97	0.02
4/5/2019 1:15	2.259	101.6	6.197	9.11	28.97	0.01
4/5/2019 1:30	4.389	91.1	6.235	8.95	28.97	0.01
4/5/2019 1:45	7.09	94.2	7.47	8.64	28.97	0.01
4/5/2019 2:00	7.132	107.2	7.725	8.81	28.94	0.01
4/5/2019 2:15	7.847	88.2	9.99	8.82	28.94	0
4/5/2019 2:30	5.637	120.1	19.85	8.89	28.94	0
4/5/2019 2:45	6.225	162.7	11.25	9.2	28.94	0.01
4/5/2019 3:00	6.855	147.1	16.42	9.1	28.93	0
4/5/2019 3:15	5.908	123.3	8.58	9.24	28.93	0.01
4/5/2019 3:30	5.482	129.8	9.58	9.15	28.93	0.02
4/5/2019 3:45	6.081	97.4	9.58	9.03	28.93	0
4/5/2019 4:00	7.183	117.9	9.94	9.17	28.92	0.01
4/5/2019 4:15	7.637	113.1	12.94	9.25	28.92	0.01
4/5/2019 4:30	6.208	98	10.34	8.84	28.92	0
4/5/2019 4:45	5.167	96.6	10.01	9.18	28.92	0
4/5/2019 5:00	3.91	57.33	9.97	9.34	28.9	0
4/5/2019 5:15	3.917	55.14	17.31	9.2	28.9	0
4/5/2019 5:30	3.152	26.74	8.65	8.19	28.9	0
4/5/2019 5:45	4.084	36.37	6.038	8.05	28.9	0
4/5/2019 6:00	3.768	17.26	7.436	8.03	28.9	0
4/5/2019 6:15	1.934	63.33	25.01	8.01	28.9	0
4/5/2019 6:30	4.92	119.5	19.8	8.57	28.9	0
4/5/2019 6:45	5.151	136.6	10.26	9.09	28.9	0
4/5/2019 7:00	7.106	150.3	11.42	9.89	28.87	0
4/5/2019 7:15	5.77	160.4	12.22	10.41	28.87	0
4/5/2019 7:30	5.571	157.7	14.5	10.84	28.87	0
4/5/2019 7:45	6.373	149.5	17.25	11.09	28.87	0
4/5/2019 8:00	4.935	146	18.74	11.3	28.87	0

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4/5/2019 8:15	3.438	79.57	42.7	11.38	28.87	0
4/5/2019 8:30	4.362	84.4	21.49	11.17	28.87	0
4/5/2019 8:45	14.25	128.7	9.7	10.91	28.87	0
4/5/2019 9:00	11.66	125.5	11.51	10.8	28.83	0
4/5/2019 9:15	9.8	127.8	14.22	11.14	28.83	0
4/5/2019 9:30	8.32	129.1	12.41	11.91	28.83	0
4/5/2019 9:45	8.97	132.9	11.4	12.59	28.83	0
4/5/2019 10:00	7.204	121.1	16.73	12.68	28.83	0
4/5/2019 10:15	11.82	147.2	13.83	12.56	28.83	0
4/5/2019 10:30	10.84	147.1	11.34	12.16	28.83	0.01
4/5/2019 10:45	10.64	135.8	11.33	11.93	28.83	0
4/5/2019 11:00	7.607	134.7	11.12	11.91	28.8	0.01
4/5/2019 11:15	5.842	91	17.89	11.64	28.8	0
4/5/2019 11:30	3.426	72.51	42.67	11.63	28.8	0.01
4/5/2019 11:45	5.33	220.5	24.62	12.05	28.8	0
4/5/2019 12:00	4.772	163.1	18.9	12.13	28.82	0.02
4/5/2019 12:15	9.62	205.8	29.45	11.77	28.82	0.02
4/5/2019 12:30	15.2	215.2	8.34	11.26	28.82	0.05
4/5/2019 12:45	11.12	257.3	9.86	10.57	28.82	0.03
4/5/2019 13:00	13.48	232.3	14.84	10.15	28.84	0.03
4/5/2019 13:15	13.7	220.1	9.09	10.04	28.84	0.01
4/5/2019 13:30	11.27	210	10.68	9.77	28.84	0.02
4/5/2019 13:45	9.56	190	9.86	9.69	28.84	0
4/5/2019 14:00	9.38	182.8	8.85	9.79	28.85	0
4/5/2019 14:15	7.676	171.3	9.67	10.03	28.85	0
4/5/2019 14:30	8.05	190.2	9.7	10.14	28.85	0
4/5/2019 14:45	10.04	200.4	8.97	10.32	28.85	0
4/5/2019 15:00	11.41	198.4	11.53	10.4	28.87	0.01
4/5/2019 15:15	14.4	207.9	7.94	10.36	28.87	0
4/5/2019 15:30	20.72	218.8	14.77	9.81	28.87	0.01
4/5/2019 15:45	18.45	221.4	9.06	8.21	28.87	0.01
4/5/2019 16:00	10.85	198.7	13.7	8.3	28.93	0
4/5/2019 16:15	9.92	184.2	9.84	8.6	28.93	0
4/5/2019 16:30	11.31	190.9	10.27	9.27	28.93	0
4/5/2019 16:45	9.5	199	10.88	9.54	28.93	0
4/5/2019 17:00	8.33	196.2	8.25	9.69	28.96	0
4/5/2019 17:15	6.701	192.4	12.37	9.74	28.96	0
4/5/2019 17:30	6.681	196.4	13.15	9.9	28.96	0
4/5/2019 17:45	10.95	227.8	12.69	10.47	28.96	0
4/5/2019 18:00	9.68	255.4	20.48	10.24	28.99	0
4/5/2019 18:15	15.31	225.5	14.06	9.99	28.99	0
4/5/2019 18:30	13.68	218.7	16.88	9.53	28.99	0
4/5/2019 18:45	11.11	175.3	14.38	8.52	28.99	0
4/5/2019 19:00	8.15	158.9	12.59	7.711	29.01	0
4/5/2019 19:15	8.78	169	12.46	7.289	29.01	0
4/5/2019 19:30	7.912	155.7	9.9	6.894	29.01	0
4/5/2019 19:45	9.02	157.6	9.49	7.158	29.01	0

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4/5/2019 20:00	10.28	177.1	10.95	7.212	29.01	0
4/5/2019 20:15	7.865	170.9	14.35	6.862	29.01	0
4/5/2019 20:30	4.183	133.3	15	6.64	29.01	0
4/5/2019 20:45	5.177	130.4	10.69	6.793	29.01	0
4/5/2019 21:00	5.959	141.7	7.405	7.039	29.02	0
4/5/2019 21:15	6.214	139.7	7.526	7.266	29.02	0
4/5/2019 21:30	5.182	148	8.78	7.448	29.02	0
4/5/2019 21:45	6.877	157.7	9.06	7.448	29.02	0
4/5/2019 22:00	7.788	154.5	6.295	7.39	29.02	0
4/5/2019 22:15	8.56	160.8	6.897	7.28	29.02	0
4/5/2019 22:30	7.483	154.8	7.663	7.243	29.02	0
4/5/2019 22:45	7.541	142.1	10.62	7.28	29.02	0
4/5/2019 23:00	5.336	130.1	8.63	6.952	29.02	0
4/5/2019 23:15	6.354	135	11.09	6.916	29.02	0
4/5/2019 23:30	6.15	130.1	8.78	7.216	29.02	0
4/5/2019 23:45	6.17	139.3	7.83	7.577	29.02	0
4/6/2019 0:00	5.335	137	10.48	7.89	29	0
4/6/2019 0:15	5.203	129.7	8.3	7.777	29	0
4/6/2019 0:30	4.745	143.2	9.69	7.859	29	0
4/6/2019 0:45	4.806	153.8	25.5	7.859	29	0
4/6/2019 1:00	4.92	176.2	22.36	7.562	28.96	0
4/6/2019 1:15	4.393	158.7	16.4	7.234	28.96	0
4/6/2019 1:30	3.612	122.6	10.82	6.884	28.96	0
4/6/2019 1:45	5.918	129.1	11.22	7.024	28.96	0
4/6/2019 2:00	5.274	126.2	9.13	7.13	28.96	0
4/6/2019 2:15	6.897	139.6	9.87	7.212	28.96	0
4/6/2019 2:30	9.4	140.8	11.13	7.008	28.96	0
4/6/2019 2:45	10.21	122.6	11.34	7.282	28.96	0
4/6/2019 3:00	8.87	128.1	10.83	7.464	28.92	0
4/6/2019 3:15	6.852	125.1	10.43	7.572	28.92	0
4/6/2019 3:30	5.277	142.2	13.01	7.241	28.92	0
4/6/2019 3:45	6.695	143.6	13.77	7.193	28.92	0
4/6/2019 4:00	9.49	125.6	12.8	7.679	28.9	0
4/6/2019 4:15	12.14	136.2	10.58	8.3	28.9	0
4/6/2019 4:30	12.81	137	10.61	8.38	28.9	0
4/6/2019 4:45	10.47	144.9	13.51	8.47	28.9	0
4/6/2019 5:00	9.51	139.1	17.07	8.53	28.87	0
4/6/2019 5:15	8.34	125.7	17.03	8.6	28.87	0
4/6/2019 5:30	12.72	137.5	8.85	8.9	28.87	0
4/6/2019 5:45	10.4	137.5	11.12	8.77	28.87	0
4/6/2019 6:00	8.19	139.2	10.9	8.92	28.86	0
4/6/2019 6:15	4.994	185.5	38.11	8.63	28.86	0
4/6/2019 6:30	6.621	199.1	34.95	7.47	28.86	0
4/6/2019 6:45	6.406	137.9	15.14	7.729	28.86	0
4/6/2019 7:00	6.785	118.4	15.09	7.753	28.84	0.01
4/6/2019 7:15	5.119	119.5	39.67	7.544	28.84	0.01
4/6/2019 7:30	6.377	174.1	16.21	7.023	28.84	0

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4/6/2019 7:45	12.15	146	13.83	7.157	28.84	0.01
4/6/2019 8:00	11.73	137.6	9.43	6.945	28.8	0
4/6/2019 8:15	14.38	133.4	10.7	7.464	28.8	0.01
4/6/2019 8:30	16.74	137.7	8.86	7.962	28.8	0
4/6/2019 8:45	13.14	140.4	12.25	8.33	28.8	0
4/6/2019 9:00	9.56	168.3	15.91	8.62	28.84	0
4/6/2019 9:15	12.64	191.1	15.65	8.98	28.84	0
4/6/2019 9:30	14.14	223.3	18.54	8.84	28.84	0
4/6/2019 9:45	17.06	230.4	9.31	7.994	28.84	0.01
4/6/2019 10:00	18.45	222.4	9.85	8.03	28.89	0
4/6/2019 10:15	14.88	198.9	14.54	8.63	28.89	0
4/6/2019 10:30	15.54	188.8	11.35	9.28	28.89	0.01
4/6/2019 10:45	15.98	189.9	9.6	9.9	28.89	0
4/6/2019 11:00	16.71	194.7	11.08	10.34	28.93	0
4/6/2019 11:15	16.87	190	11.91	10.81	28.93	0
4/6/2019 11:30	17.74	195.8	11.44	10.69	28.93	0
4/6/2019 11:45	19.18	206	11.08	10.59	28.93	0
4/6/2019 12:00	19.63	206.3	9.96	10.96	28.97	0
4/6/2019 12:15	16.06	201.7	10.97	11.58	28.97	0
4/6/2019 12:30	17.96	204.1	9.64	11.6	28.97	0
4/6/2019 12:45	13.91	203	12.83	11.69	28.97	0
4/6/2019 13:00	14.68	230.9	15.48	11.27	28.96	0
4/6/2019 13:15	14.41	258.5	20.83	10.06	28.96	0.02
4/6/2019 13:30	11.77	264	15.38	8.59	28.96	0
4/6/2019 13:45	9.41	232.4	10.55	9.34	28.96	0.01
4/6/2019 14:00	4.591	199.9	36.8	9.44	29	0
4/6/2019 14:15	2.873	136.5	25.82	9.69	29	0
4/6/2019 14:30	9.76	180.6	26.18	9.44	29	0.02
4/6/2019 14:45	12.99	192.4	8.36	9.12	29	0.01
4/6/2019 15:00	8.05	171.1	18.5	9.93	29.02	0
4/6/2019 15:15	5.6	155.6	16.64	10.7	29.02	0
4/6/2019 15:30	3.759	183.2	29.87	10.92	29.02	0
4/6/2019 15:45	10.59	168	26.99	9.92	29.02	0.04
4/6/2019 16:00	11.39	179.1	11.31	10.01	29.05	0
4/6/2019 16:15	9.9	155.8	8.2	9.92	29.05	0
4/6/2019 16:30	10.09	162.5	11.1	10.16	29.05	0
4/6/2019 16:45	9.16	173.2	8.4	10.45	29.05	0
4/6/2019 17:00	7.723	164.4	15.84	10.46	29.05	0
4/6/2019 17:15	7.68	171.8	10.25	10.66	29.05	0
4/6/2019 17:30	7.103	149.8	10.74	10.36	29.05	0
4/6/2019 17:45	7.389	156.5	9.3	10.4	29.05	0
4/6/2019 18:00	8.37	191.6	11.97	10.7	29.04	0
4/6/2019 18:15	10.87	175.1	13.61	10.48	29.04	0
4/6/2019 18:30	8.59	178.9	10.55	9.82	29.04	0
4/6/2019 18:45	4.063	118.4	16.28	9.01	29.04	0.01
4/6/2019 19:00	1.04	150.5	27.67	9.15	29.03	0
4/6/2019 19:15	0.247	57.62	18.07	9.38	29.03	0



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4/6/2019 19:30	0.951	28.1	5.912	9.18	29.03	0
4/6/2019 19:45	0.626	27.89	3.132	9.07	29.03	0
4/6/2019 20:00	1.246	36.19	2.945	9.06	29.06	0
4/6/2019 20:15	0.976	45.03	7.495	8.9	29.06	0
4/6/2019 20:30	0.998	96.1	23.2	8.88	29.06	0
4/6/2019 20:45	1.281	127.7	11.68	9.11	29.06	0
4/6/2019 21:00	5.884	200.2	19.15	8.37	29.07	0
4/6/2019 21:15	9.99	163.1	10.42	8.46	29.07	0.01
4/6/2019 21:30	13.14	163.6	9.09	7.466	29.07	0.02
4/6/2019 21:45	9.14	151.4	7.624	6.823	29.07	0.02
4/6/2019 22:00	8.07	145.3	8.39	6.488	29.05	0.01
4/6/2019 22:15	8.42	149.1	9.16	6.292	29.05	0.01
4/6/2019 22:30	8.55	140.8	9.44	6.049	29.05	0.02
4/6/2019 22:45	8.35	133.9	8.91	5.984	29.05	0.02
4/6/2019 23:00	7.596	126.2	10.39	5.957	29.04	0.03
4/6/2019 23:15	4.879	105.3	13.29	5.758	29.04	0.01
4/6/2019 23:30	3.527	59.65	14.24	5.507	29.04	0.02
4/6/2019 23:45	4.322	68.92	9.82	5.599	29.04	0.01
4/7/2019 0:00	5	82.4	12.42	5.783	29	0.02
4/7/2019 0:15	5.12	101.2	12.42	5.915	29	0.02
4/7/2019 0:30	3.931	123.4	12.62	5.962	29	0.02
4/7/2019 0:45	3.66	142.8	9.89	5.843	29	0.01
4/7/2019 1:00	3.684	158.9	10.73	5.741	28.96	0.01
4/7/2019 1:15	3.808	124.1	22.4	5.637	28.96	0.02
4/7/2019 1:30	2.631	54.64	20.76	5.363	28.96	0.03
4/7/2019 1:45	3.426	30.15	11.88	5.129	28.96	0.02
4/7/2019 2:00	3.266	15.49	5.465	5.099	28.95	0.01
4/7/2019 2:15	3.559	34.39	8.05	5.063	28.95	0.02
4/7/2019 2:30	4.259	24.81	5.029	5.07	28.95	0.02
4/7/2019 2:45	4.138	11.86	10.19	5.127	28.95	0.02
4/7/2019 3:00	3.695	323.5	19.09	5.229	28.96	0.01
4/7/2019 3:15	2.607	329.3	12.08	5.247	28.96	0.01
4/7/2019 3:30	3.144	11.48	16.56	5.17	28.96	0
4/7/2019 3:45	3.505	2.037	17.29	5.276	28.96	0.01
4/7/2019 4:00	5.046	19.85	9.5	5.236	28.95	0.02
4/7/2019 4:15	4.192	24.97	9.48	5.318	28.95	0.01
4/7/2019 4:30	2.265	40.24	8.21	5.34	28.95	0
4/7/2019 4:45	2.542	46.82	12.55	5.262	28.95	0.01
4/7/2019 5:00	2.49	303.2	51.29	5.464	28.97	0
4/7/2019 5:15	4.951	264	15.43	5.596	28.97	0
4/7/2019 5:30	0.727	282.8	14.21	5.562	28.97	0
4/7/2019 5:45	1.855	302.4	11.83	5.626	28.97	0
4/7/2019 6:00	0.392	321.5	0.045	5.595	29.01	0.01
4/7/2019 6:15	2.017	84.7	22.91	5.538	29.01	0
4/7/2019 6:30	1.986	138.9	15.29	5.574	29.01	0
4/7/2019 6:45	2.829	207	25.35	5.739	29.01	0
4/7/2019 7:00	3.193	199.2	34.93	5.791	29.06	0

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4/7/2019 7:15	5.829	156.3	6.245	5.928	29.06	0
4/7/2019 7:30	5.234	166.9	11.49	6.112	29.06	0
4/7/2019 7:45	5.641	169.5	10.08	6.416	29.06	0
4/7/2019 8:00	4.754	177.6	13.63	6.549	29.08	0
4/7/2019 8:15	4.995	172.3	17.63	6.634	29.08	0
4/7/2019 8:30	4.459	178.2	21.1	6.662	29.08	0
4/7/2019 8:45	4.933	202.9	8.59	6.545	29.08	0
4/7/2019 9:00	5.899	205.1	5.742	6.519	29.13	0
4/7/2019 9:15	5.11	203.8	8.39	6.56	29.13	0
4/7/2019 9:30	4.424	198.8	10.89	6.729	29.13	0
4/7/2019 9:45	5.094	193.3	10.44	6.842	29.13	0
4/7/2019 10:00	4.049	205.8	12.09	6.863	29.16	0
4/7/2019 10:15	5.606	198.3	15.02	6.996	29.16	0
4/7/2019 10:30	3.869	188.6	19.71	7.529	29.16	0
4/7/2019 10:45	5.218	195	14.32	7.638	29.16	0
4/7/2019 11:00	5.223	164.4	23.49	8.02	29.21	0
4/7/2019 11:15	5.042	129.9	11.61	8.14	29.21	0
4/7/2019 11:30	3.321	164.7	23.62	8.15	29.21	0
4/7/2019 11:45	4.204	192.9	15.79	8.34	29.21	0
4/7/2019 12:00	3.649	209.5	15.12	8.39	29.23	0
4/7/2019 12:15	4.694	196.5	13.13	8.42	29.23	0
4/7/2019 12:30	4.038	196	14.76	8.67	29.23	0
4/7/2019 12:45	4.702	256.6	28.4	8.79	29.23	0
4/7/2019 13:00	6.818	286.9	11.15	8.48	29.24	0
4/7/2019 13:15	4.865	286.3	9.67	8.64	29.24	0
4/7/2019 13:30	6.411	283.7	8.99	8.8	29.24	0
4/7/2019 13:45	6.473	278	9.25	8.82	29.24	0
4/7/2019 14:00	3.926	263.5	21.54	9.26	29.25	0
4/7/2019 14:15	3.257	257.3	17.97	9.85	29.25	0
4/7/2019 14:30	2.395	259.5	40.54	10.76	29.25	0
4/7/2019 14:45	2.776	202.4	27.73	10.22	29.25	0
4/7/2019 15:00	5.225	213.3	16.39	10.06	29.26	0
4/7/2019 15:15	4.088	230.6	21.05	10.15	29.26	0
4/7/2019 15:30	3.137	285.4	42.5	10.41	29.26	0
4/7/2019 15:45	2.477	350.3	32.16	10.69	29.26	0
4/7/2019 16:00	2.281	308.3	30.37	10.66	29.24	0
4/7/2019 16:15	1.156	290.2	28.79	10.67	29.24	0
4/7/2019 16:30	1.154	57.12	31.76	10.81	29.24	0
4/7/2019 16:45	3.453	73.22	16.1	10.49	29.24	0
4/7/2019 17:00	3.891	61.87	12	10.27	29.24	0
4/7/2019 17:15	3.093	71.87	13.45	10.31	29.24	0
4/7/2019 17:30	4.078	100.4	20.19	10.26	29.24	0
4/7/2019 17:45	1.66	114.7	20.33	10.29	29.24	0
4/7/2019 18:00	1.051	92.4	13.33	10.23	29.23	0
4/7/2019 18:15	1.278	73.13	5.731	10.03	29.23	0
4/7/2019 18:30	1.637	45.79	9.73	9.83	29.23	0
4/7/2019 18:45	1.334	22.63	8.54	9.61	29.23	0

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4/7/2019 19:00	2.325	33.82	7.264	9.35	29.24	0
4/7/2019 19:15	2.948	44.02	10.14	9.02	29.24	0
4/7/2019 19:30	4.32	48.99	5.019	8.43	29.24	0
4/7/2019 19:45	4.821	58.27	5.692	8.22	29.24	0
4/7/2019 20:00	4.406	51.04	7.016	8.08	29.21	0
4/7/2019 20:15	4.346	56.94	6.239	7.914	29.21	0
4/7/2019 20:30	4.087	66.21	2.339	8.22	29.21	0
4/7/2019 20:45	5.102	58.32	6.683	8.39	29.21	0
4/7/2019 21:00	3.69	53.41	8.62	8.1	29.22	0
4/7/2019 21:15	3.144	36.86	5.437	7.802	29.22	0
4/7/2019 21:30	2.659	36.59	5.583	7.744	29.22	0
4/7/2019 21:45	2.799	39.32	6.994	7.788	29.22	0
4/7/2019 22:00	3.2	23.63	4.871	7.43	29.2	0
4/7/2019 22:15	0.927	57.49	16.47	7.151	29.2	0
4/7/2019 22:30	3.157	33.38	6.026	7.226	29.2	0
4/7/2019 22:45	3.708	44.41	12.16	7.068	29.2	0
4/7/2019 23:00	4.217	54.15	13.31	6.83	29.19	0
4/7/2019 23:15	4.676	30.07	7.458	6.956	29.19	0
4/7/2019 23:30	3.568	33.6	10.54	6.771	29.19	0
4/7/2019 23:45	3.945	38	8.33	6.716	29.19	0
4/8/2019 0:00	3.69	25.16	10.91	6.586	29.19	0
4/8/2019 0:15	3.886	39.82	9.81	6.801	29.19	0
4/8/2019 0:30	3.345	64.04	9.89	6.582	29.19	0
4/8/2019 0:45	2.379	56.71	14.68	6.757	29.19	0
4/8/2019 1:00	2.2	48.13	6.508	6.974	29.19	0
4/8/2019 1:15	2.406	146	60.58	7.046	29.19	0
4/8/2019 1:30	3.071	151.7	61.34	6.94	29.19	0
4/8/2019 1:45	1.164	88.8	11.98	6.34	29.19	0
4/8/2019 2:00	2.228	110.5	13.35	7.293	29.16	0
4/8/2019 2:15	2.884	74.72	16.52	7.273	29.16	0
4/8/2019 2:30	1.008	48.65	13.8	6.551	29.16	0
4/8/2019 2:45	1.263	137.2	8.78	7.292	29.16	0
4/8/2019 3:00	1.544	110.4	71.51	7.28	29.16	0
4/8/2019 3:15	1.246	63.42	0.208	6.957	29.16	0
4/8/2019 3:30	0.176	63.64	0.039	7.098	29.16	0
4/8/2019 3:45	2.502	73.42	9.26	6.909	29.16	0
4/8/2019 4:00	2.519	50.03	9.13	6.709	29.13	0
4/8/2019 4:15	0.808	69.04	6.354	7.175	29.13	0
4/8/2019 4:30	4.249	349.8	27.12	7.04	29.13	0
4/8/2019 4:45	1.91	6.925	38.22	6.884	29.13	0
4/8/2019 5:00	1.799	335.2	78.08	6.632	29.15	0
4/8/2019 5:15	1.592	337.9	21.96	6.825	29.15	0
4/8/2019 5:30	1.05	215.3	56.35	7.12	29.15	0
4/8/2019 5:45	2.766	65.53	57.07	6.709	29.15	0.01
4/8/2019 6:00	2.72	13.09	12.7	6.892	29.13	0
4/8/2019 6:15	1.423	10.38	42.24	7.188	29.13	0
4/8/2019 6:30	2.471	49.97	7.213	6.448	29.13	0

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4/8/2019 6:45	1.791	28.88	8.18	6.85	29.13	0
4/8/2019 7:00	0.562	167.6	62.25	7.684	29.15	0
4/8/2019 7:15	2.939	196.5	19.15	8.15	29.15	0
4/8/2019 7:30	5.001	207.9	7.838	7.89	29.15	0
4/8/2019 7:45	2.478	113.2	30.7	7.895	29.15	0
4/8/2019 8:00	3.837	182	29.95	7.876	29.14	0
4/8/2019 8:15	5.776	217.4	9.5	8.05	29.14	0
4/8/2019 8:30	4.99	241.2	12.09	8.05	29.14	0
4/8/2019 8:45	4.178	265.9	8.66	8.6	29.14	0.01
4/8/2019 9:00	2.407	261.1	19.61	8.6	29.16	0
4/8/2019 9:15	1.531	187.2	29.92	8.85	29.16	0
4/8/2019 9:30	2.257	164.8	47.45	8.97	29.16	0
4/8/2019 9:45	2.45	91.4	27.73	9.44	29.16	0
4/8/2019 10:00	2.973	118.3	27.57	9.95	29.15	0
4/8/2019 10:15	2.088	99.3	41.1	10.56	29.15	0
4/8/2019 10:30	2.746	170.5	24.31	11.82	29.15	0
4/8/2019 10:45	3.137	204.1	25.9	12.37	29.15	0
4/8/2019 11:00	5.275	187.9	22.89	12.94	29.16	0
4/8/2019 11:15	3.77	214.1	41.05	12.87	29.16	0
4/8/2019 11:30	5.445	200.9	34.56	12.87	29.16	0
4/8/2019 11:45	7.337	219.1	16.12	13.14	29.16	0
4/8/2019 12:00	7.093	209.3	17.7	13.18	29.13	0
4/8/2019 12:15	5.004	224.3	19.03	13.31	29.13	0
4/8/2019 12:30	2.389	179.2	32.36	13.53	29.13	0
4/8/2019 12:45	7.931	141.5	13.93	12.65	29.13	0
4/8/2019 13:00	8.53	136.4	10.67	12.17	29.12	0
4/8/2019 13:15	7.726	149.9	16.35	11.78	29.12	0.01
4/8/2019 13:30	5.369	132.5	13.5	11.83	29.12	0
4/8/2019 13:45	3.811	128	30.15	12.48	29.12	0
4/8/2019 14:00	2.017	95.7	20.85	12.74	29.13	0
4/8/2019 14:15	3.29	85.5	26.05	12.96	29.13	0
4/8/2019 14:30	3.192	31.18	21.84	13.29	29.13	0
4/8/2019 14:45	3.857	9.75	22.92	13.25	29.13	0
4/8/2019 15:00	4.381	355.7	17.35	12.98	29.1	0
4/8/2019 15:15	4.771	22.46	8.52	12.75	29.1	0.01
4/8/2019 15:30	3.071	61.72	33.45	12.36	29.1	0
4/8/2019 15:45	13.19	184.8	13.47	11.17	29.1	0.23
4/8/2019 16:00	8.38	157.2	29.33	9.89	29.1	0.07
4/8/2019 16:15	5.963	128.3	19.46	10.13	29.1	0.01
4/8/2019 16:30	5.577	118.4	21.07	10.35	29.1	0.01
4/8/2019 16:45	7.543	145.8	17.78	10.38	29.1	0.03
4/8/2019 17:00	5.447	118	16.86	10.42	29.11	0
4/8/2019 17:15	3.671	85.5	15.59	10.27	29.11	0.01
4/8/2019 17:30	4.565	165.2	50.84	10.28	29.11	0.04
4/8/2019 17:45	4.163	221	83.8	10.25	29.11	0.03
4/8/2019 18:00	2.481	55.82	15.66	10.26	29.12	0
4/8/2019 18:15	3.224	87.5	37.75	10.21	29.12	0

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4/8/2019 18:30	4.69	149	6.886	10.16	29.12	0
4/8/2019 18:45	3.935	154.2	12.86	10.15	29.12	0.01
4/8/2019 19:00	2.372	155.9	14.56	10.17	29.12	0.01
4/8/2019 19:15	4.096	197.8	34.11	10.25	29.12	0.02
4/8/2019 19:30	7.392	195.5	15.38	10.07	29.12	0.01
4/8/2019 19:45	4.322	154.7	9.96	9.73	29.12	0.01
4/8/2019 20:00	3.245	159.5	13.9	9.71	29.12	0
4/8/2019 20:15	4.211	177.7	8.53	9.73	29.12	0
4/8/2019 20:30	5.143	178.2	8.74	9.5	29.12	0
4/8/2019 20:45	4.251	196.8	9.2	9.74	29.12	0
4/8/2019 21:00	3.649	186.8	15.44	9.62	29.14	0
4/8/2019 21:15	5.31	191	9.34	9.54	29.14	0
4/8/2019 21:30	4.561	207.1	11.01	9.49	29.14	0
4/8/2019 21:45	4.293	222	9.2	9.4	29.14	0
4/8/2019 22:00	4.428	216.7	15.01	9.37	29.14	0
4/8/2019 22:15	4.276	193	8.19	9.28	29.14	0.02
4/8/2019 22:30	5.332	216	17.27	9.1	29.14	0.03
4/8/2019 22:45	6.185	228.9	11.18	9.18	29.14	0
4/8/2019 23:00	4.682	228.7	8.92	9.11	29.14	0
4/8/2019 23:15	5.578	217	15.44	9.03	29.14	0
4/8/2019 23:30	6.275	211.4	11.61	8.79	29.14	0
4/8/2019 23:45	4.445	199.7	9.67	8.59	29.14	0.01
4/9/2019 0:00	4.64	189.2	6.806	8.53	29.16	0
4/9/2019 0:15	3.693	173.3	11.08	8.45	29.16	0
4/9/2019 0:30	2.135	172.9	16.55	8.44	29.16	0
4/9/2019 0:45	4.306	164.6	14.31	8.52	29.16	0
4/9/2019 1:00	5.288	197.5	5.333	8.67	29.17	0
4/9/2019 1:15	2.762	184.3	9.31	8.59	29.17	0
4/9/2019 1:30	1	149	12.38	8.49	29.17	0
4/9/2019 1:45	0.776	137.5	10.22	8.45	29.17	0.01
4/9/2019 2:00	2.203	207.7	17.19	8.51	29.17	0.01
4/9/2019 2:15	6.88	210.6	13.09	8.55	29.17	0.01
4/9/2019 2:30	7.716	233.4	6.681	8.59	29.17	0
4/9/2019 2:45	5.414	236.7	7.768	8.58	29.17	0
4/9/2019 3:00	6.407	234.7	8.19	8.52	29.17	0
4/9/2019 3:15	7.74	223.9	7.856	8.44	29.17	0
4/9/2019 3:30	6.335	212.9	11.16	8.36	29.17	0.01
4/9/2019 3:45	5.998	102.5	67.59	8.16	29.17	0.08
4/9/2019 4:00	8.39	28.67	10.56	7.595	29.18	0.07
4/9/2019 4:15	7.418	313.2	30.27	7.558	29.18	0.03
4/9/2019 4:30	8.98	313.8	17.71	7.355	29.18	0.02
4/9/2019 4:45	10.12	352.1	22.54	7.145	29.18	0.02
4/9/2019 5:00	6.733	11.73	12.59	6.969	29.21	0.01
4/9/2019 5:15	5.756	17.73	15.38	6.88	29.21	0
4/9/2019 5:30	8.57	8.97	14.26	6.707	29.21	0.01
4/9/2019 5:45	6.344	8.05	13.13	6.515	29.21	0.04
4/9/2019 6:00	6.478	348.4	25.14	6.6	29.25	0

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4/9/2019 6:15	8.14	18.08	11.16	6.508	29.25	0.01
4/9/2019 6:30	7.403	26.02	11.2	6.353	29.25	0
4/9/2019 6:45	6.453	21.32	15.78	6.427	29.25	0
4/9/2019 7:00	7.306	22.14	10.59	6.561	29.27	0
4/9/2019 7:15	5.54	14.93	13.7	6.685	29.27	0
4/9/2019 7:30	4.736	5.384	20.5	7.096	29.27	0
4/9/2019 7:45	1.42	13.75	27.44	7.326	29.27	0
4/9/2019 8:00	2.638	267.7	25.74	7.502	29.31	0
4/9/2019 8:15	2.013	261.7	29.38	7.677	29.31	0
4/9/2019 8:30	2.81	225.7	28.29	7.732	29.31	0
4/9/2019 8:45	4.267	270.2	26.09	7.687	29.31	0
4/9/2019 9:00	4.405	271.1	12.17	7.64	29.31	0
4/9/2019 9:15	3.968	273	13.62	8.04	29.31	0
4/9/2019 9:30	5.534	283.3	18.19	8.1	29.31	0
4/9/2019 9:45	6.704	280.6	11.67	8.42	29.31	0
4/9/2019 10:00	6.965	266	11.92	8.25	29.34	0
4/9/2019 10:15	9.32	247.5	11.22	7.99	29.34	0
4/9/2019 10:30	10.89	234.6	7.707	7.857	29.34	0
4/9/2019 10:45	7.062	247.2	9.56	8.06	29.34	0
4/9/2019 11:00	5.709	258.7	10.72	8.96	29.38	0
4/9/2019 11:15	4.817	251.6	20.06	9.56	29.38	0
4/9/2019 11:30	6.378	243.9	23.16	9.59	29.38	0
4/9/2019 11:45	8.33	255.5	8.6	9.54	29.38	0
4/9/2019 12:00	6.187	243	14.67	9.83	29.37	0
4/9/2019 12:15	5.158	229.1	20.97	10.09	29.37	0
4/9/2019 12:30	6.705	210.2	16.95	10.44	29.37	0
4/9/2019 12:45	6.45	237.5	12.89	10.55	29.37	0
4/9/2019 13:00	5.219	216.5	13.68	11.13	29.4	0
4/9/2019 13:15	5.344	206.8	18.6	11.57	29.4	0
4/9/2019 13:30	5.281	219.7	33.44	11.75	29.4	0
4/9/2019 13:45	5.85	230.7	21.94	11.86	29.4	0
4/9/2019 14:00	6.349	217.5	23.9	11.46	29.41	0
4/9/2019 14:15	4.899	209.2	11.52	11.32	29.41	0
4/9/2019 14:30	3.345	195.3	23.8	11.12	29.41	0
4/9/2019 14:45	4.072	145.8	39.11	10.58	29.41	0.01
4/9/2019 15:00	1.646	22.15	54.47	10.43	29.4	0.04
4/9/2019 15:15	4.22	213.8	27.33	10.35	29.4	0.02
4/9/2019 15:30	3.815	176	11.69	10.31	29.4	0
4/9/2019 15:45	1.713	208.9	33.35	10.52	29.4	0
4/9/2019 16:00	2.752	123.3	66.71	10.12	29.43	0
4/9/2019 16:15	3.547	59.46	14.75	9.44	29.43	0
4/9/2019 16:30	3.124	65.16	22.27	9.67	29.43	0
4/9/2019 16:45	2.781	48.86	14.5	9.46	29.43	0
4/9/2019 17:00	3.173	44.64	10.07	9.1	29.44	0
4/9/2019 17:15	0.816	87.8	49.17	9.45	29.44	0
4/9/2019 17:30	1.856	83.9	20.88	9.39	29.44	0
4/9/2019 17:45	2.29	109.7	27.73	9.27	29.44	0

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4/9/2019 18:00	2.349	148	50.92	9.51	29.45	0
4/9/2019 18:15	1.86	139.2	35.3	9.45	29.45	0
4/9/2019 18:30	7.838	229.1	10.79	9.68	29.45	0
4/9/2019 18:45	6.883	224.1	13.81	9.45	29.45	0
4/9/2019 19:00	6.163	209.9	36.96	9.2	29.46	0
4/9/2019 19:15	7.013	198.1	20.5	8.79	29.46	0
4/9/2019 19:30	7.405	216.9	10.35	8.77	29.46	0
4/9/2019 19:45	7.66	210.2	10.32	8.62	29.46	0
4/9/2019 20:00	4.914	221	13.4	8.54	29.5	0
4/9/2019 20:15	6.02	220	18.35	8.52	29.5	0
4/9/2019 20:30	5.232	200.5	14.48	8.39	29.5	0
4/9/2019 20:45	4.622	210.9	19.26	8.34	29.5	0
4/9/2019 21:00	3.347	224.9	16.39	8.32	29.51	0
4/9/2019 21:15	3.273	195.8	40.7	8.12	29.51	0
4/9/2019 21:30	2.964	189	34.06	7.9	29.51	0
4/9/2019 21:45	3.132	156.2	33.54	7.49	29.51	0
4/9/2019 22:00	5.092	181.1	16.82	7.664	29.52	0
4/9/2019 22:15	4.904	186.7	19.8	7.675	29.52	0
4/9/2019 22:30	1.817	125.1	40.25	7.422	29.52	0
4/9/2019 22:45	3.687	163.9	42.71	7.355	29.52	0
4/9/2019 23:00	4.224	177.5	16.02	7.372	29.51	0
4/9/2019 23:15	3.196	149.5	26.15	7.077	29.51	0
4/9/2019 23:30	4.936	150.2	10.82	7.043	29.51	0
4/9/2019 23:45	6.327	187	16.1	7.146	29.51	0
4/10/2019 0:00	4.97	178.3	17.83	7.032	29.54	0
4/10/2019 0:15	4.488	158.2	18.8	6.915	29.54	0
4/10/2019 0:30	4.414	134	10.58	6.672	29.54	0
4/10/2019 0:45	6.228	154.6	9.04	6.735	29.54	0
4/10/2019 1:00	4.638	144.8	13.72	6.668	29.52	0
4/10/2019 1:15	3.096	147.2	13.11	6.631	29.52	0
4/10/2019 1:30	1.481	99.2	22.6	6.469	29.52	0
4/10/2019 1:45	4.535	159.6	19.49	6.55	29.52	0
4/10/2019 2:00	5.982	184.9	12.77	6.728	29.53	0
4/10/2019 2:15	5.782	183.6	11.54	6.711	29.53	0
4/10/2019 2:30	7.228	198.7	9.32	6.697	29.53	0
4/10/2019 2:45	7.373	186.7	13.44	6.502	29.53	0
4/10/2019 3:00	6.75	164	15.86	6.123	29.52	0
4/10/2019 3:15	4.894	137	14.35	5.776	29.52	0.01
4/10/2019 3:30	5.169	113.8	8.3	5.648	29.52	0
4/10/2019 3:45	5.592	143.6	12.89	5.676	29.52	0
4/10/2019 4:00	4.941	163	14.68	5.975	29.55	0
4/10/2019 4:15	5.917	152	10.73	6.005	29.55	0
4/10/2019 4:30	6.893	157	8.15	6.144	29.55	0
4/10/2019 4:45	5.916	160.6	15.54	6.187	29.55	0
4/10/2019 5:00	6.265	159.9	14.57	6.188	29.53	0
4/10/2019 5:15	7.69	167.2	9.83	6.284	29.53	0
4/10/2019 5:30	7.853	167.6	10.99	6.393	29.53	0

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4/10/2019 5:45	6.847	164.5	12.01	6.329	29.53	0
4/10/2019 6:00	7.456	158.6	8.41	6.295	29.55	0
4/10/2019 6:15	8.42	161.6	7.451	6.323	29.55	0
4/10/2019 6:30	8.16	161.6	7.223	6.344	29.55	0
4/10/2019 6:45	7.681	165.4	9.84	6.41	29.55	0
4/10/2019 7:00	9.01	180.6	12.65	6.597	29.53	0
4/10/2019 7:15	9.57	184.8	9.86	6.607	29.53	0
4/10/2019 7:30	10.68	186.5	8.55	6.485	29.53	0
4/10/2019 7:45	9.29	166.6	12.45	6.263	29.53	0
4/10/2019 8:00	9.55	159.9	9.52	6.11	29.52	0
4/10/2019 8:15	9.24	160.8	8.53	5.881	29.52	0.01
4/10/2019 8:30	9.21	156.2	8.56	5.804	29.52	0.01
4/10/2019 8:45	8.8	156.1	8.58	5.897	29.52	0.01
4/10/2019 9:00	8.6	150.6	8.64	5.937	29.53	0.01
4/10/2019 9:15	8.96	159.6	11.36	5.971	29.53	0.01
4/10/2019 9:30	8.82	156.6	8.49	6.002	29.53	0.01
4/10/2019 9:45	9.89	157.2	8.27	6.097	29.53	0
4/10/2019 10:00	8.55	155.5	9.14	6.283	29.48	0.01
4/10/2019 10:15	7.577	152.8	10.48	6.507	29.48	0
4/10/2019 10:30	7.193	154.4	11.93	6.722	29.48	0
4/10/2019 10:45	7.204	152.3	8.88	6.939	29.48	0
4/10/2019 11:00	7.02	164.4	12.66	7.241	29.49	0
4/10/2019 11:15	7.318	171.7	12.47	7.436	29.49	0
4/10/2019 11:30	7.806	175.6	13.86	7.39	29.49	0.01
4/10/2019 11:45	9.48	191.3	8.72	7.375	29.49	0.02
4/10/2019 12:00	9.51	197.7	7.512	7.351	29.45	0.02
4/10/2019 12:15	9.51	187.6	7.823	7.387	29.45	0.01
4/10/2019 12:30	11.24	186.6	8.34	7.567	29.45	0
4/10/2019 12:45	11.02	184.7	8.99	7.562	29.45	0
4/10/2019 13:00	10.55	190.3	10.49	7.575	29.44	0.01
4/10/2019 13:15	12.52	192.7	8.86	7.62	29.44	0
4/10/2019 13:30	11.36	203.4	10.36	7.739	29.44	0
4/10/2019 13:45	9.62	203.2	9.91	7.847	29.44	0
4/10/2019 14:00	11.56	193.7	11.39	7.924	29.42	0
4/10/2019 14:15	11.2	190.4	11.75	8.02	29.42	0
4/10/2019 14:30	10.99	187.3	9.2	8.12	29.42	0
4/10/2019 14:45	10.93	196.1	9.3	8.28	29.42	0
4/10/2019 15:00	11.11	194.1	7.47	8.41	29.38	0
4/10/2019 15:15	10.02	192.3	7.514	8.43	29.38	0
4/10/2019 15:30	10.4	193.4	7.168	8.54	29.38	0
4/10/2019 15:45	9.49	194.6	6.905	8.69	29.38	0
4/10/2019 16:00	9.13	194.1	8.2	8.77	29.37	0
4/10/2019 16:15	8.97	198.1	7.262	8.94	29.37	0
4/10/2019 16:30	9.68	192.2	7.243	8.82	29.37	0
4/10/2019 16:45	9.82	187.6	7.986	8.43	29.37	0.01
4/10/2019 17:00	8.13	193	8.76	8.22	29.37	0.02
4/10/2019 17:15	7.331	200.6	8.26	8.2	29.37	0



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4/10/2019 17:30	7.181	194	9.5	8.22	29.37	0
4/10/2019 17:45	8.47	196.9	10	8.33	29.37	0
4/10/2019 18:00	10.18	194.2	8.27	8.39	29.37	0.01
4/10/2019 18:15	9.07	194.6	9.12	8.36	29.37	0
4/10/2019 18:30	9	191.4	9.17	8.21	29.37	0.01
4/10/2019 18:45	9.53	190.3	8.31	8.11	29.37	0
4/10/2019 19:00	8.36	190.9	9.98	8.15	29.36	0
4/10/2019 19:15	9.5	204.2	8.23	8.23	29.36	0
4/10/2019 19:30	8.15	219.5	8.49	8.5	29.36	0.01
4/10/2019 19:45	7.715	220.4	8.71	8.58	29.36	0
4/10/2019 20:00	9.71	226.7	10.04	8.75	29.34	0
4/10/2019 20:15	8.91	230.3	9.86	8.74	29.34	0
4/10/2019 20:30	9.71	235.3	9.7	8.77	29.34	0
4/10/2019 20:45	8.08	238.5	8.01	8.57	29.34	0
4/10/2019 21:00	9.16	246.1	10.27	8.28	29.34	0
4/10/2019 21:15	9.84	250.5	8.49	8.08	29.34	0
4/10/2019 21:30	7.341	264.7	10.69	7.921	29.34	0.01
4/10/2019 21:45	7.515	270.3	9.72	7.796	29.34	0.01
4/10/2019 22:00	3.09	337.1	54.86	7.711	29.37	0.02
4/10/2019 22:15	4.77	39.5	18.68	7.148	29.37	0.04
4/10/2019 22:30	6.132	39.79	8.78	7.163	29.37	0.08
4/10/2019 22:45	3.098	68.56	17.76	6.976	29.37	0.05
4/10/2019 23:00	1.598	61.79	13.65	6.85	29.35	0.03
4/10/2019 23:15	0.742	62.83	12.06	6.835	29.35	0.02
4/10/2019 23:30	2.431	216.5	14.62	6.944	29.35	0.03
4/10/2019 23:45	3.394	187.7	17.03	6.965	29.35	0.02
4/11/2019 0:00	3.676	147.6	16.86	6.755	29.33	0.01
4/11/2019 0:15	2.495	83.7	10.9	6.631	29.33	0.02
4/11/2019 0:30	3.328	92.7	10.97	6.559	29.33	0.02
4/11/2019 0:45	3.682	140.8	13.68	6.446	29.33	0
4/11/2019 1:00	2.917	168.5	18.9	6.383	29.33	0.02
4/11/2019 1:15	2.71	166.8	8.91	6.311	29.33	0.04
4/11/2019 1:30	3.354	169.7	8.44	6.265	29.33	0.02
4/11/2019 1:45	3.982	99	28.92	6.241	29.33	0.03
4/11/2019 2:00	3.86	122.3	21.48	6.224	29.31	0.01
4/11/2019 2:15	2.298	131.2	7.888	6.218	29.31	0.02
4/11/2019 2:30	5.089	139.1	8.19	6.085	29.31	0.01
4/11/2019 2:45	4.72	154.3	14.82	5.988	29.31	0.02
4/11/2019 3:00	4.098	168.7	16.99	5.889	29.29	0.02
4/11/2019 3:15	4.333	162.1	8.53	5.796	29.29	0.01
4/11/2019 3:30	3.968	152	13.99	5.671	29.29	0.02
4/11/2019 3:45	2.524	125.9	18.83	5.551	29.29	0.01
4/11/2019 4:00	2.052	120.4	14.91	5.526	29.3	0
4/11/2019 4:15	3.382	146	10.5	5.502	29.3	0.01
4/11/2019 4:30	3.847	107.4	24.32	5.561	29.3	0
4/11/2019 4:45	3.785	79.28	14.04	5.509	29.3	0.02
4/11/2019 5:00	4.118	109.5	13.58	5.358	29.27	0.02

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4/11/2019 5:15	2.487	94.9	27.4	5.388	29.27	0.01
4/11/2019 5:30	2.14	86.5	14.48	5.52	29.27	0.01
4/11/2019 5:45	1.579	69.51	7.1	5.454	29.27	0
4/11/2019 6:00	1.689	79.91	10.29	5.404	29.26	0.01
4/11/2019 6:15	1.007	89.1	28.16	5.452	29.26	0.01
4/11/2019 6:30	1.713	142.5	38.87	5.645	29.26	0
4/11/2019 6:45	3.963	232.5	60.42	5.964	29.26	0.01
4/11/2019 7:00	2.504	196	21.47	6.075	29.28	0
4/11/2019 7:15	2.424	159.4	27.42	6.394	29.28	0
4/11/2019 7:30	1.947	133.4	30.55	6.312	29.28	0.01
4/11/2019 7:45	2.183	111.2	13.98	6.155	29.28	0.01
4/11/2019 8:00	2.185	152.1	14.54	6.462	29.24	0.01
4/11/2019 8:15	4.722	152.8	10.39	6.696	29.24	0
4/11/2019 8:30	6.107	189.7	13.8	6.821	29.24	0
4/11/2019 8:45	6.596	203.2	7.671	6.93	29.24	0.01
4/11/2019 9:00	5.944	197.3	7.37	7.015	29.25	0
4/11/2019 9:15	7.398	195.5	6.998	7.091	29.25	0
4/11/2019 9:30	8.03	198.5	10.93	7.239	29.25	0
4/11/2019 9:45	9.8	195.1	7.312	7.509	29.25	0.01
4/11/2019 10:00	7.691	203	10.25	7.767	29.22	0
4/11/2019 10:15	8.22	198.5	10.99	7.946	29.22	0
4/11/2019 10:30	8.91	194.8	11.3	7.924	29.22	0
4/11/2019 10:45	9.81	195.8	8.22	7.916	29.22	0.01
4/11/2019 11:00	10.08	196.8	9.55	8.21	29.22	0.01
4/11/2019 11:15	9.62	195.1	10.47	8.14	29.22	0
4/11/2019 11:30	10.11	192.1	9.67	8.21	29.22	0.01
4/11/2019 11:45	10.15	193.2	8.98	8.26	29.22	0
4/11/2019 12:00	9.82	193.3	9.51	8.52	29.21	0
4/11/2019 12:15	8.96	188.8	11.23	8.7	29.21	0.01
4/11/2019 12:30	7.511	191.7	8.55	8.65	29.21	0
4/11/2019 12:45	9.56	197	10.28	8.7	29.21	0.01
4/11/2019 13:00	7.552	193.4	10.18	8.84	29.2	0
4/11/2019 13:15	5.82	171.5	16.37	8.97	29.2	0.01
4/11/2019 13:30	9	185.6	12.94	8.75	29.2	0
4/11/2019 13:45	8.53	191.2	7.972	8.56	29.2	0.01
4/11/2019 14:00	7.429	188.7	10.58	8.63	29.17	0
4/11/2019 14:15	6.081	171.9	20.67	8.8	29.17	0
4/11/2019 14:30	5.065	143.2	11.94	8.84	29.17	0
4/11/2019 14:45	4.529	122.6	12.06	8.93	29.17	0
4/11/2019 15:00	4.657	129	11	8.91	29.15	0.01
4/11/2019 15:15	4.803	178.5	29.96	9.05	29.15	0.01
4/11/2019 15:30	8.31	202.6	8.46	9.21	29.15	0
4/11/2019 15:45	10.16	191.4	7.812	9.46	29.15	0
4/11/2019 16:00	8.72	192.9	9.98	9.25	29.13	0.01
4/11/2019 16:15	6.945	177.2	14.6	9.29	29.13	0
4/11/2019 16:30	5.451	150.3	7.402	9.23	29.13	0
4/11/2019 16:45	7.368	155.6	21.37	9.14	29.13	0.01

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4/11/2019 17:00	10.15	190.5	7.578	9.13	29.12	0
4/11/2019 17:15	8.9	182.6	12.84	9.02	29.12	0
4/11/2019 17:30	9.04	160.1	7.078	8.84	29.12	0
4/11/2019 17:45	8.22	154.2	9.29	8.83	29.12	0
4/11/2019 18:00	9.17	165.2	6.842	8.82	29.12	0.01
4/11/2019 18:15	10.47	169	7.523	8.81	29.12	0
4/11/2019 18:30	8.14	167.5	10.24	8.71	29.12	0
4/11/2019 18:45	7.897	162.5	6.875	8.7	29.12	0
4/11/2019 19:00	7.952	165.7	10.56	8.75	29.1	0
4/11/2019 19:15	6.433	165.5	8.36	8.72	29.1	0
4/11/2019 19:30	6.127	159.6	6.842	8.7	29.1	0
4/11/2019 19:45	6.091	160.8	7.757	8.71	29.1	0.02
4/11/2019 20:00	6.367	170.1	14.38	8.76	29.11	0.02
4/11/2019 20:15	7.264	192	7.355	8.88	29.11	0
4/11/2019 20:30	6.051	201.5	7.689	8.92	29.11	0.01
4/11/2019 20:45	6.307	208.4	21.4	8.96	29.11	0
4/11/2019 21:00	5.36	249.9	17.3	9.01	29.12	0
4/11/2019 21:15	7.749	244.8	11.55	9.06	29.12	0
4/11/2019 21:30	8.38	221.2	16.33	8.99	29.12	0.01
4/11/2019 21:45	9.58	214	7.493	9	29.12	0
4/11/2019 22:00	7.738	210.3	8.54	8.87	29.13	0
4/11/2019 22:15	8.68	205.9	8.35	8.81	29.13	0
4/11/2019 22:30	9.04	204.1	7.396	8.73	29.13	0
4/11/2019 22:45	9.14	204.9	6.761	8.67	29.13	0
4/11/2019 23:00	9.02	203.4	9.54	8.6	29.13	0
4/11/2019 23:15	7.932	197.6	11.79	8.53	29.13	0
4/11/2019 23:30	5.942	205.2	13.64	8.41	29.13	0.02
4/11/2019 23:45	3.449	226	24.4	8.27	29.13	0.1
4/12/2019 0:00	5.022	192.5	14.18	8.2	29.15	0.06
4/12/2019 0:15	5.549	186.6	12.66	8.09	29.15	0.06
4/12/2019 0:30	5.424	208.8	8.52	8.02	29.15	0.03
4/12/2019 0:45	5.913	224.7	11.7	8	29.15	0.01
4/12/2019 1:00	5.315	233.2	12.35	7.973	29.15	0.01
4/12/2019 1:15	5.285	240.1	9.32	7.949	29.15	0.01
4/12/2019 1:30	4.897	223.4	12.87	7.918	29.15	0.03
4/12/2019 1:45	1.765	214.4	13.07	7.907	29.15	0.05
4/12/2019 2:00	2.119	167.2	75.77	7.854	29.14	0.03
4/12/2019 2:15	1.142	60.41	4.5	7.783	29.14	0.02
4/12/2019 2:30	0.599	46.94	19.16	7.789	29.14	0.02
4/12/2019 2:45	1.077	349.2	8.7	7.762	29.14	0.02
4/12/2019 3:00	4.094	261	16.94	7.809	29.16	0.01
4/12/2019 3:15	5.965	245.2	6.701	7.728	29.16	0.01
4/12/2019 3:30	6.327	258	7.075	7.675	29.16	0.03
4/12/2019 3:45	7.032	249.1	8.15	7.617	29.16	0.01
4/12/2019 4:00	7.357	233.7	6.998	7.554	29.18	0.01
4/12/2019 4:15	6.613	240.2	8.1	7.526	29.18	0
4/12/2019 4:30	6.233	247.5	8.84	7.512	29.18	0.01

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4/12/2019 4:45	7.24	246.3	7.52	7.477	29.18	0.01
4/12/2019 5:00	6.048	249.9	8.71	7.477	29.17	0.01
4/12/2019 5:15	6.914	267.4	10.39	7.513	29.17	0.02
4/12/2019 5:30	7.402	275.2	8.62	7.519	29.17	0
4/12/2019 5:45	6.284	287.2	8.95	7.519	29.17	0
4/12/2019 6:00	6.368	283.3	9.31	7.473	29.2	0.01
4/12/2019 6:15	5.741	270.2	8.06	7.432	29.2	0
4/12/2019 6:30	6.358	255.5	11.64	7.312	29.2	0
4/12/2019 6:45	4.993	266.4	10.43	7.323	29.2	0
4/12/2019 7:00	4.104	306.4	13.38	7.41	29.21	0
4/12/2019 7:15	5.156	315.6	8.89	7.439	29.21	0
4/12/2019 7:30	6.028	303.2	6.074	7.467	29.21	0
4/12/2019 7:45	4.523	299.2	10.2	7.52	29.21	0
4/12/2019 8:00	5.192	307.1	9.36	7.564	29.2	0
4/12/2019 8:15	5.762	318.5	7.559	7.567	29.2	0
4/12/2019 8:30	5.632	347.7	14.49	7.456	29.2	0
4/12/2019 8:45	5.557	328.7	4.986	7.424	29.2	0.01
4/12/2019 9:00	4.881	325.5	7.702	7.63	29.23	0
4/12/2019 9:15	3.888	326.1	10.25	8.08	29.23	0
4/12/2019 9:30	2.8	6.073	38.37	8.32	29.23	0
4/12/2019 9:45	5.708	45.3	8.31	7.625	29.23	0
4/12/2019 10:00	4.132	26.1	11.83	7.87	29.23	0
4/12/2019 10:15	2.496	26.14	23.68	8.04	29.23	0
4/12/2019 10:30	4.133	302.4	21.09	8.58	29.23	0
4/12/2019 10:45	5.875	289.1	8.85	8.74	29.23	0
4/12/2019 11:00	6.59	289.8	8.62	8.84	29.24	0
4/12/2019 11:15	7.063	285.3	9.99	8.76	29.24	0
4/12/2019 11:30	5.4	297.2	26.92	8.94	29.24	0
4/12/2019 11:45	5.769	295.3	10.4	9.14	29.24	0
4/12/2019 12:00	5.794	313.2	15.58	9.4	29.23	0
4/12/2019 12:15	6.273	352.3	19.22	9.48	29.23	0
4/12/2019 12:30	7.217	351.1	19.42	9.96	29.23	0
4/12/2019 12:45	7.489	355.4	24.53	10.14	29.23	0
4/12/2019 13:00	8.22	31.86	10.24	9.9	29.24	0
4/12/2019 13:15	6.277	42.87	16.95	10.32	29.24	0
4/12/2019 13:30	5.099	19.8	13.47	10.4	29.24	0
4/12/2019 13:45	4.709	35.18	13.53	10.63	29.24	0
4/12/2019 14:00	3.447	35.6	13.01	11.17	29.25	0
4/12/2019 14:15	2.231	19.72	33.14	11.72	29.25	0
4/12/2019 14:30	5.005	29.25	25.93	11.26	29.25	0
4/12/2019 14:45	4.722	60.32	20.77	11.21	29.25	0
4/12/2019 15:00	6.472	35.71	12.39	11.34	29.22	0
4/12/2019 15:15	5.151	36.84	13.12	11.48	29.22	0
4/12/2019 15:30	3.382	59.48	17.86	11.63	29.22	0
4/12/2019 15:45	3.886	32.81	16.08	11.82	29.22	0
4/12/2019 16:00	3.801	23.21	13.44	11.59	29.2	0
4/12/2019 16:15	2.54	10.57	22.56	11.81	29.2	0

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4/12/2019 16:30	3.536	28.82	4.837	11.57	29.2	0
4/12/2019 16:45	2.922	27.7	9.83	11.55	29.2	0
4/12/2019 17:00	2.803	15.07	8.17	11.52	29.21	0
4/12/2019 17:15	4.575	32.51	4.618	11.37	29.21	0
4/12/2019 17:30	4.195	31.03	7.535	11.21	29.21	0
4/12/2019 17:45	4.791	30.62	5.975	11.04	29.21	0
4/12/2019 18:00	4.309	18.75	6.748	10.96	29.23	0
4/12/2019 18:15	3.307	28.85	6.868	11	29.23	0
4/12/2019 18:30	2.572	36.7	3.642	10.87	29.23	0
4/12/2019 18:45	2.25	27.93	5.358	10.69	29.23	0
4/12/2019 19:00	1.583	23.81	0.097	10.39	29.19	0
4/12/2019 19:15	3.016	14.23	8.59	10.2	29.19	0
4/12/2019 19:30	2.921	24.49	9.45	9.88	29.19	0
4/12/2019 19:45	2.081	44.23	4.717	9.8	29.19	0
4/12/2019 20:00	0.776	51.21	3.587	9.78	29.22	0
4/12/2019 20:15	3.071	224.7	48.23	10.06	29.22	0
4/12/2019 20:30	4.296	249.4	10.3	9.96	29.22	0
4/12/2019 20:45	1.634	67.96	72.41	9.31	29.22	0
4/12/2019 21:00	2.267	91.2	22.68	8.68	29.2	0
4/12/2019 21:15	3.296	142	18.63	8.77	29.2	0
4/12/2019 21:30	3.311	219.3	19.57	9.03	29.2	0
4/12/2019 21:45	2.738	179.6	22.05	9.04	29.2	0
4/12/2019 22:00	2.642	162.8	9.44	8.81	29.2	0
4/12/2019 22:15	2.92	188.6	14.31	8.83	29.2	0
4/12/2019 22:30	6.744	219.3	18.62	8.9	29.2	0
4/12/2019 22:45	7.403	233.3	15.06	8.55	29.2	0.01
4/12/2019 23:00	5.286	237.1	10.4	8.44	29.19	0
4/12/2019 23:15	4.646	233.6	10.02	8.41	29.19	0
4/12/2019 23:30	7.074	230.8	8.8	8.31	29.19	0
4/12/2019 23:45	5.599	226.8	15.23	8.11	29.19	0
4/13/2019 0:00	5.403	208.8	10.9	7.71	29.18	0
4/13/2019 0:15	6.181	189	8.25	7.647	29.18	0
4/13/2019 0:30	6.263	187.5	6.764	7.586	29.18	0
4/13/2019 0:45	10.32	182.7	10.18	7.484	29.18	0
4/13/2019 1:00	11.43	190.6	10.01	7.372	29.2	0
4/13/2019 1:15	10.35	199.2	9	7.304	29.2	0
4/13/2019 1:30	9.73	196.5	10.63	7.192	29.2	0
4/13/2019 1:45	9.01	170.9	12.27	7.016	29.2	0
4/13/2019 2:00	8.94	182.8	7.68	6.987	29.18	0
4/13/2019 2:15	8.22	181.4	7.136	6.854	29.18	0
4/13/2019 2:30	8.6	196.1	7.886	6.865	29.18	0
4/13/2019 2:45	8.36	191.3	6.927	6.881	29.18	0
4/13/2019 3:00	8.99	189.8	8.07	6.889	29.16	0
4/13/2019 3:15	8.43	194.3	8.65	6.85	29.16	0
4/13/2019 3:30	11.11	202.9	9.06	6.811	29.16	0
4/13/2019 3:45	8.48	207.9	10.59	6.704	29.16	0
4/13/2019 4:00	8.42	210	9.53	6.618	29.18	0

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4/13/2019 4:15	9.18	211.3	11.86	6.565	29.18	0
4/13/2019 4:30	7.267	208.8	14.52	6.553	29.18	0
4/13/2019 4:45	9.76	180.1	12.51	6.414	29.18	0
4/13/2019 5:00	8.15	179.6	13.65	6.341	29.15	0
4/13/2019 5:15	8.83	176	13.79	6.312	29.15	0
4/13/2019 5:30	9.08	174.2	10.08	6.325	29.15	0
4/13/2019 5:45	8.93	159.1	7.436	6.061	29.15	0
4/13/2019 6:00	9.35	179.8	8.1	6.096	29.16	0.01
4/13/2019 6:15	8.07	171.2	10.39	5.901	29.16	0
4/13/2019 6:30	8.3	158.6	6.444	5.708	29.16	0
4/13/2019 6:45	8.53	160.5	8.01	5.737	29.16	0
4/13/2019 7:00	7.941	178.3	8.79	5.956	29.15	0
4/13/2019 7:15	7.825	164.2	10.48	5.839	29.15	0.01
4/13/2019 7:30	8.35	180	10.08	5.883	29.15	0.02
4/13/2019 7:45	7.623	178	10.77	5.773	29.15	0.02
4/13/2019 8:00	7.002	145.6	7.814	5.624	29.11	0.01
4/13/2019 8:15	6.572	157.8	11.46	5.71	29.11	0.01
4/13/2019 8:30	7.05	181.9	8.12	5.89	29.11	0
4/13/2019 8:45	6.684	177.1	13.37	5.924	29.11	0
4/13/2019 9:00	7.757	196.6	9.84	6.008	29.12	0.01
4/13/2019 9:15	8.95	200.8	12.04	6.027	29.12	0.01
4/13/2019 9:30	11.6	212.1	9.88	6.109	29.12	0.01
4/13/2019 9:45	13.04	214.3	10.38	6.018	29.12	0.01
4/13/2019 10:00	13.48	208.2	8.2	5.906	29.13	0.01
4/13/2019 10:15	12.09	205.2	9.3	5.843	29.13	0.01
4/13/2019 10:30	9.67	189	9.75	5.808	29.13	0.02
4/13/2019 10:45	9.16	181.4	10.72	5.811	29.13	0.01
4/13/2019 11:00	9.21	162.6	9.42	5.869	29.1	0.01
4/13/2019 11:15	10.45	161.8	9.16	5.884	29.1	0.02
4/13/2019 11:30	11.19	167.5	12.47	6.093	29.1	0
4/13/2019 11:45	10.62	176.7	9.14	6.337	29.1	0.01
4/13/2019 12:00	9.77	171.8	13.53	6.525	29.1	0
4/13/2019 12:15	10.39	167.7	11.98	6.611	29.1	0
4/13/2019 12:30	8.27	161.5	12.3	6.811	29.1	0
4/13/2019 12:45	9.07	155.6	10.4	7.059	29.1	0
4/13/2019 13:00	7.905	150.3	11.34	7.265	29.04	0
4/13/2019 13:15	5.865	144.7	15.23	7.451	29.04	0
4/13/2019 13:30	5.51	143.8	10.14	7.688	29.04	0
4/13/2019 13:45	6.802	143.8	10.54	7.821	29.04	0
4/13/2019 14:00	6.634	155.4	15.22	8.33	29.05	0
4/13/2019 14:15	8.67	176	18.46	9.01	29.05	0
4/13/2019 14:30	11.41	183.3	11.17	9.09	29.05	0
4/13/2019 14:45	11.43	186.5	10.75	8.85	29.05	0.01
4/13/2019 15:00	12.35	195.7	9.44	8.7	29.05	0
4/13/2019 15:15	10.53	187.2	13.39	8.71	29.05	0
4/13/2019 15:30	10.32	167	14.05	8.74	29.05	0
4/13/2019 15:45	6.946	154.7	14.83	8.39	29.05	0.01

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4/13/2019 16:00	7.044	198.2	22.93	8.3	29.05	0.03
4/13/2019 16:15	10.01	225.2	10.6	8.32	29.05	0.02
4/13/2019 16:30	13.1	219.3	8.88	8.2	29.05	0.02
4/13/2019 16:45	12.03	213.5	7.609	8.1	29.05	0.02
4/13/2019 17:00	16.46	211.6	10.38	8.06	29.03	0.02
4/13/2019 17:15	12.82	189.7	8.94	8.41	29.03	0
4/13/2019 17:30	10.24	185.3	13	8.25	29.03	0
4/13/2019 17:45	12.24	182.2	8.85	7.983	29.03	0.01
4/13/2019 18:00	14.08	176.7	8.71	7.734	29.04	0
4/13/2019 18:15	15.06	171.9	8.43	7.655	29.04	0
4/13/2019 18:30	12.78	174.9	8.58	7.613	29.04	0
4/13/2019 18:45	9.2	185	10.41	7.552	29.04	0
4/13/2019 19:00	11.44	183.7	8.07	7.547	29.06	0
4/13/2019 19:15	14.36	196	6.858	7.416	29.06	0
4/13/2019 19:30	12.28	190.4	7.887	7.13	29.06	0
4/13/2019 19:45	12.12	184	8.25	6.93	29.06	0
4/13/2019 20:00	11.74	173.6	8.65	6.69	29.09	0
4/13/2019 20:15	11.01	178.3	9.19	6.519	29.09	0
4/13/2019 20:30	10.85	187	10.27	6.484	29.09	0
4/13/2019 20:45	10.7	187.1	8.54	6.443	29.09	0
4/13/2019 21:00	10.08	185.2	8.76	6.421	29.09	0
4/13/2019 21:15	10.89	183.4	12.99	6.392	29.09	0
4/13/2019 21:30	13.34	190.1	8.52	6.36	29.09	0
4/13/2019 21:45	12.07	181.6	10.79	6.134	29.09	0
4/13/2019 22:00	11.36	174.4	9.35	6.028	29.08	0
4/13/2019 22:15	9.31	169.6	9.97	5.992	29.08	0
4/13/2019 22:30	8.6	172.1	11.3	5.937	29.08	0
4/13/2019 22:45	9.55	183.8	10.19	5.934	29.08	0
4/13/2019 23:00	9.58	182	11.89	5.892	29.11	0
4/13/2019 23:15	10.16	188.4	10.34	5.837	29.11	0
4/13/2019 23:30	10.39	177.1	9.49	5.749	29.11	0
4/13/2019 23:45	10.19	179.7	8.73	5.627	29.11	0
4/14/2019 0:00	12.63	183.4	10.64	5.509	29.09	0
4/14/2019 0:15	12.48	187	10.85	5.43	29.09	0
4/14/2019 0:30	11.14	179.4	8.98	5.335	29.09	0
4/14/2019 0:45	10.77	176.1	9.94	5.379	29.09	0
4/14/2019 1:00	10.4	175	12.14	5.376	29.11	0
4/14/2019 1:15	10.93	181	9.56	5.364	29.11	0
4/14/2019 1:30	10.32	180.2	11.42	5.283	29.11	0
4/14/2019 1:45	9.91	180.1	11.26	5.267	29.11	0
4/14/2019 2:00	13.78	167.8	8.88	5.272	29.12	0
4/14/2019 2:15	11.37	182.5	17.29	5.225	29.12	0
4/14/2019 2:30	10.89	180.6	11.49	5.132	29.12	0
4/14/2019 2:45	12.92	176.8	9.56	5.162	29.12	0
4/14/2019 3:00	13.82	187.5	9.67	5.14	29.13	0
4/14/2019 3:15	12.51	173.3	9.98	5.104	29.13	0
4/14/2019 3:30	9.1	176.3	13.8	5.079	29.13	0

Meteorological Data

4/14/2019 3:45	9.3	170.2	14.67	5.057	29.13	0
4/14/2019 4:00	7.948	153.2	16.49	4.985	29.11	0
4/14/2019 4:15	9.74	173	11.19	5.022	29.11	0
4/14/2019 4:30	9.47	171.8	11.14	5.013	29.11	0
4/14/2019 4:45	8.74	176.2	13.18	5.039	29.11	0
4/14/2019 5:00	8.22	177.9	10.88	5.05	29.1	0
4/14/2019 5:15	8.36	171.5	15.37	5.052	29.1	0
4/14/2019 5:30	11.34	180.2	10.23	5.109	29.1	0
4/14/2019 5:45	9.57	185	11.43	5.079	29.1	0
4/14/2019 6:00	8.96	196.8	9.83	5.081	29.13	0
4/14/2019 6:15	11.24	198.2	10.45	5.076	29.13	0
4/14/2019 6:30	8.8	197.8	9.67	5.1	29.13	0
4/14/2019 6:45	7.576	200.7	9.77	5.143	29.13	0
4/14/2019 7:00	7.554	200.6	12.28	5.237	29.14	0
4/14/2019 7:15	9.32	208.3	12.89	5.368	29.14	0
4/14/2019 7:30	9.57	201.5	9.8	5.449	29.14	0
4/14/2019 7:45	8.99	195.5	11.54	5.567	29.14	0
4/14/2019 8:00	9.61	201.2	10.23	5.608	29.12	0
4/14/2019 8:15	10.5	219.5	8.37	5.68	29.12	0
4/14/2019 8:30	8.03	201.8	11.58	5.808	29.12	0
4/14/2019 8:45	9.78	210.6	11.95	5.902	29.12	0
4/14/2019 9:00	8.63	204.3	10.21	6.083	29.11	0
4/14/2019 9:15	10.49	195	12.18	6.316	29.11	0
4/14/2019 9:30	10.57	201.5	8.25	6.621	29.11	0
4/14/2019 9:45	9.99	197.1	11.24	6.879	29.11	0
4/14/2019 10:00	12.86	211.1	10.25	7.141	29.11	0
4/14/2019 10:15	10.8	209.3	10.68	7.265	29.11	0
4/14/2019 10:30	9.99	203.8	13.99	7.36	29.11	0
4/14/2019 10:45	12.04	201.8	9.88	7.383	29.11	0
4/14/2019 11:00	11.57	198.3	14.05	7.482	29.11	0
4/14/2019 11:15	13.27	207.7	15.67	7.513	29.11	0
4/14/2019 11:30	12.08	208.5	10.6	7.715	29.11	0
4/14/2019 11:45	11.58	211.4	14.56	7.901	29.11	0
4/14/2019 12:00	12.98	210.5	8.09	7.829	29.09	0
4/14/2019 12:15	12.39	203.3	8.62	7.875	29.09	0
4/14/2019 12:30	12.46	210.9	9.02	8.09	29.09	0
4/14/2019 12:45	12.28	205.2	10.95	8.51	29.09	0
4/14/2019 13:00	11.8	226.1	11.46	8.55	29.08	0
4/14/2019 13:15	12.17	217.8	10.76	8.84	29.08	0
4/14/2019 13:30	9.77	197.7	11.87	8.95	29.08	0
4/14/2019 13:45	9.71	216.7	17.93	9.18	29.08	0
4/14/2019 14:00	15.44	217.6	8.76	8.97	29.08	0
4/14/2019 14:15	16.45	210.9	9.81	8.44	29.08	0
4/14/2019 14:30	15.05	206.6	12.46	8.06	29.08	0
4/14/2019 14:45	14.19	194.8	8.52	7.787	29.08	0
4/14/2019 15:00	12.51	197.9	11.59	7.816	29.09	0
4/14/2019 15:15	13.38	183.4	9.64	7.478	29.09	0



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4/14/2019 15:30	12	186.3	14.6	7.469	29.09	0
4/14/2019 15:45	12.64	178.9	12.54	7.37	29.09	0
4/14/2019 16:00	11.53	187.3	14.11	7.167	29.07	0
4/14/2019 16:15	12.4	207.7	8.22	6.843	29.07	0
4/14/2019 16:30	12.24	205	7.912	6.593	29.07	0
4/14/2019 16:45	11.88	198.5	10.25	6.12	29.07	0
4/14/2019 17:00	11.71	193.8	9.59	5.615	29.09	0
4/14/2019 17:15	9.2	183.9	7.944	5.118	29.09	0.01
4/14/2019 17:30	8.81	184.9	9.47	4.944	29.09	0.01
4/14/2019 17:45	8.35	174.6	12.49	4.874	29.09	0
4/14/2019 18:00	8.21	163.4	15.45	4.746	29.07	0.01
4/14/2019 18:15	7.053	140.3	9.24	4.569	29.07	0
4/14/2019 18:30	8.7	143.5	8.09	4.486	29.07	0
4/14/2019 18:45	8.62	155.7	8.71	4.446	29.07	0
4/14/2019 19:00	8.75	156.4	10.79	4.39	29.06	0
4/14/2019 19:15	7.438	150.5	7.98	4.337	29.06	0
4/14/2019 19:30	6.415	138.6	10.44	4.269	29.06	0
4/14/2019 19:45	5.816	141.4	7.708	4.218	29.06	0.01
4/14/2019 20:00	5.627	141.4	9.72	4.138	29.08	0.01
4/14/2019 20:15	4.974	153.5	13.85	4.129	29.08	0.01
4/14/2019 20:30	6.099	182.6	17.33	4.224	29.08	0
4/14/2019 20:45	6.132	151.1	10.82	4.259	29.08	0
4/14/2019 21:00	7.764	157.6	8.94	4.287	29.08	0
4/14/2019 21:15	8.91	159	10.42	4.231	29.08	0.01
4/14/2019 21:30	7.307	169.6	12.41	4.218	29.08	0.01
4/14/2019 21:45	7.766	177.5	9.51	4.215	29.08	0
4/14/2019 22:00	7.698	179.3	7.091	4.151	29.09	0
4/14/2019 22:15	6.977	173	10.92	4.12	29.09	0
4/14/2019 22:30	5.967	143.4	6.938	4.004	29.09	0
4/14/2019 22:45	6.769	151.5	6.367	3.976	29.09	0
4/14/2019 23:00	6.529	148.8	7.086	3.998	29.1	0
4/14/2019 23:15	6.156	148	6.443	4	29.1	0
4/14/2019 23:30	5.543	153.9	7.316	3.994	29.1	0
4/14/2019 23:45	3.914	133.3	10.5	3.952	29.1	0
4/15/2019 0:00	4.113	135	13.25	3.948	29.1	0
4/15/2019 0:15	4.536	137.7	5.638	3.968	29.1	0
4/15/2019 0:30	4.578	145	8.24	4.022	29.1	0
4/15/2019 0:45	4.638	148.5	7.101	4.04	29.1	0
4/15/2019 1:00	4.292	145.3	7.863	4.033	29.09	0
4/15/2019 1:15	2.66	124.8	14.26	4.038	29.09	0
4/15/2019 1:30	2.876	99.1	8.99	3.908	29.09	0
4/15/2019 1:45	3.958	102.8	8.56	3.717	29.09	0
4/15/2019 2:00	4.645	114.3	8.36	3.698	29.07	0
4/15/2019 2:15	4.368	119.2	8.35	3.898	29.07	0
4/15/2019 2:30	4.087	112.8	8.42	4.028	29.07	0
4/15/2019 2:45	3.561	123.5	9.02	4.091	29.07	0
4/15/2019 3:00	4.374	142.7	6.101	4.204	29.08	0

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4/15/2019 3:15	3.915	150.9	10.84	4.168	29.08	0
4/15/2019 3:30	3.703	114.6	7.432	4.068	29.08	0
4/15/2019 3:45	3.791	116.2	7.564	4.16	29.08	0
4/15/2019 4:00	3.346	110.6	8.17	4.295	29.08	0
4/15/2019 4:15	1.243	150.3	47.45	4.301	29.08	0
4/15/2019 4:30	2.606	155.2	29.69	4.307	29.08	0
4/15/2019 4:45	1.696	192	15.85	4.261	29.08	0
4/15/2019 5:00	1.794	162.4	25.12	4.403	29.07	0
4/15/2019 5:15	1.351	135.2	12.28	4.21	29.07	0
4/15/2019 5:30	0.887	133.9	5.083	3.967	29.07	0
4/15/2019 5:45	2.143	101.7	9	3.824	29.07	0
4/15/2019 6:00	0.198	92.9	21.68	4.008	29.06	0
4/15/2019 6:15	1.238	83.8	16.14	4.366	29.06	0
4/15/2019 6:30	2.786	95.3	8.86	4.995	29.06	0
4/15/2019 6:45	2.905	87.8	9.59	5.127	29.06	0
4/15/2019 7:00	0.993	38.08	23.6	5.019	29.04	0
4/15/2019 7:15	0.834	16.87	2.102	5.285	29.04	0
4/15/2019 7:30	0.674	18.55	2.837	6.004	29.04	0
4/15/2019 7:45	0.426	19.94	4.341	6.95	29.04	0
4/15/2019 8:00	2.173	47.88	27.31	6.912	29.02	0
4/15/2019 8:15	2.378	37.28	21.31	7.015	29.02	0
4/15/2019 8:30	2.753	347.5	28.23	7.165	29.02	0
4/15/2019 8:45	2.753	13.19	50.42	7.603	29.02	0
4/15/2019 9:00	4.029	62.31	20.5	7.583	29	0
4/15/2019 9:15	3.187	48.68	16.88	7.87	29	0
4/15/2019 9:30	3.247	359.5	23.52	8.24	29	0
4/15/2019 9:45	3.568	31.41	28.95	8.49	29	0
4/15/2019 10:00	3.141	32.31	32.81	8.89	28.99	0
4/15/2019 10:15	3.767	8.15	29.01	9.47	28.99	0
4/15/2019 10:30	3.173	108.9	41.98	9.87	28.99	0
4/15/2019 10:45	3.062	75.3	24.02	10.05	28.99	0
4/15/2019 11:00	3.825	14.81	39.23	10.46	28.97	0
4/15/2019 11:15	5.398	307.7	34.7	10.06	28.97	0
4/15/2019 11:30	5.646	337.7	24.53	10.22	28.97	0
4/15/2019 11:45	3.414	309.6	30.76	10.53	28.97	0
4/15/2019 12:00	5.405	307.6	52.26	11.21	28.95	0
4/15/2019 12:15	5.7	356	29.98	10.95	28.95	0
4/15/2019 12:30	6.298	30.78	28.03	11.25	28.95	0
4/15/2019 12:45	6.707	339.1	22.28	11.69	28.95	0
4/15/2019 13:00	5.379	326.6	25.56	11.73	28.92	0
4/15/2019 13:15	6.253	323.6	18.04	11.65	28.92	0
4/15/2019 13:30	5.836	348.4	45.05	12.13	28.92	0
4/15/2019 13:45	6.776	12.65	26.07	12.13	28.92	0
4/15/2019 14:00	3.636	358.8	36.27	12.41	28.89	0
4/15/2019 14:15	7.117	292.8	30.62	12.84	28.89	0
4/15/2019 14:30	7.425	340.7	27.36	12.89	28.89	0
4/15/2019 14:45	6.574	326.9	21.96	12.89	28.89	0

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4/15/2019 15:00	6.941	318.8	18.15	12.95	28.9	0
4/15/2019 15:15	11.58	300.2	9.78	12.71	28.9	0
4/15/2019 15:30	11.26	296	14.11	12.8	28.9	0
4/15/2019 15:45	12.21	306.3	14.84	12.69	28.9	0
4/15/2019 16:00	13.59	298.1	12.61	12.14	28.87	0
4/15/2019 16:15	13.42	309.2	6.687	11.86	28.87	0
4/15/2019 16:30	11.43	311.2	9.31	11.67	28.87	0
4/15/2019 16:45	10.83	303.6	7.475	11.51	28.87	0
4/15/2019 17:00	10.79	304.1	6.574	11.38	28.88	0
4/15/2019 17:15	10.3	302.9	6.192	11.33	28.88	0
4/15/2019 17:30	10.32	309.7	7.926	11.14	28.88	0
4/15/2019 17:45	10.05	318.9	6.868	11.07	28.88	0
4/15/2019 18:00	8.8	308.1	7.212	10.9	28.89	0
4/15/2019 18:15	8.84	298.7	5.636	10.74	28.89	0
4/15/2019 18:30	9.02	303.6	5.64	10.56	28.89	0
4/15/2019 18:45	7.844	307.9	5.756	10.28	28.89	0
4/15/2019 19:00	7.287	308.1	6.228	10.04	28.91	0
4/15/2019 19:15	5.099	305.6	9.71	9.87	28.91	0
4/15/2019 19:30	4.719	282.4	5.782	9.79	28.91	0
4/15/2019 19:45	5.702	251.3	12.11	9.72	28.91	0
4/15/2019 20:00	8.25	276	12.6	9.51	28.92	0
4/15/2019 20:15	8.54	299.8	8.64	9.1	28.92	0
4/15/2019 20:30	4.889	317.2	4.454	8.57	28.92	0
4/15/2019 20:45	3.833	228.7	64.01	8.48	28.92	0
4/15/2019 21:00	4.663	154	11.76	7.819	28.96	0
4/15/2019 21:15	3.835	149.4	6.965	7.48	28.96	0
4/15/2019 21:30	3.557	139.1	5.494	7.305	28.96	0
4/15/2019 21:45	3.196	187.2	19.23	7.356	28.96	0
4/15/2019 22:00	3.676	217.2	8.25	7.47	28.98	0
4/15/2019 22:15	3.054	214.5	6.538	7.52	28.98	0
4/15/2019 22:30	2.482	210	3.679	7.461	28.98	0
4/15/2019 22:45	1.541	183.2	4.643	7.377	28.98	0
4/15/2019 23:00	0.292	62.99	28.44	6.931	28.97	0
4/15/2019 23:15	0.126	65.82	0.069	6.951	28.97	0
4/15/2019 23:30	0.104	65.83	0.023	6.936	28.97	0
4/15/2019 23:45	0	0	0	6.709	28.97	0
4/16/2019 0:00	0.037	53.08	3.542	7.113	29	0
4/16/2019 0:15	1.324	5.878	26.8	6.966	29	0
4/16/2019 0:30	2.437	346.1	4.736	6.272	29	0
4/16/2019 0:45	0.947	303.3	76.86	6.255	29	0
4/16/2019 1:00	2.608	206.8	15.47	6.154	29.01	0
4/16/2019 1:15	2.518	157.9	17.95	5.706	29.01	0
4/16/2019 1:30	2.364	193.4	4.339	6.088	29.01	0
4/16/2019 1:45	3.54	210.6	8.37	6.325	29.01	0
4/16/2019 2:00	3.537	199.5	7.533	5.886	29.02	0
4/16/2019 2:15	2.276	202.1	10.64	6.01	29.02	0
4/16/2019 2:30	1.675	178.7	22.93	6.048	29.02	0

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4/16/2019 2:45	1.493	126.5	19.49	5.691	29.02	0
4/16/2019 3:00	1.291	87.8	2.191	5.599	29.04	0
4/16/2019 3:15	0.814	89	0.924	5.832	29.04	0
4/16/2019 3:30	2.287	150.2	12.13	6.1	29.04	0
4/16/2019 3:45	3.13	168.7	6.633	6.18	29.04	0
4/16/2019 4:00	3.565	174.9	9.58	6.242	29.08	0
4/16/2019 4:15	3.133	181.5	9.92	6.352	29.08	0
4/16/2019 4:30	2.467	152.5	13.56	6.333	29.08	0
4/16/2019 4:45	2.558	150.3	6.537	6.109	29.08	0
4/16/2019 5:00	3.016	148	2.699	6.143	29.08	0
4/16/2019 5:15	2.678	141.2	3.632	6.135	29.08	0
4/16/2019 5:30	3.167	141.2	5.83	6.115	29.08	0.01
4/16/2019 5:45	2.976	136.3	20.54	6.128	29.08	0
4/16/2019 6:00	2.647	141.8	24.64	6.186	29.12	0
4/16/2019 6:15	0.177	28.34	3.083	6.2	29.12	0
4/16/2019 6:30	1.109	35.36	7.081	6.36	29.12	0
4/16/2019 6:45	0.965	38.8	10.47	6.611	29.12	0
4/16/2019 7:00	0.743	50.34	6.072	6.804	29.13	0
4/16/2019 7:15	4.053	136.4	38.54	6.818	29.13	0
4/16/2019 7:30	5.008	147.3	12.72	7.2	29.13	0
4/16/2019 7:45	3.852	113.9	58.74	7.6	29.13	0
4/16/2019 8:00	6.21	157.7	8.75	7.793	29.14	0
4/16/2019 8:15	6.434	160.6	14.86	8.56	29.14	0
4/16/2019 8:30	4.538	155.4	18.37	8.95	29.14	0
4/16/2019 8:45	5.54	156	11	8.86	29.14	0
4/16/2019 9:00	4.103	155	13.84	8.98	29.17	0
4/16/2019 9:15	4.145	213.5	21.77	9.01	29.17	0
4/16/2019 9:30	2.96	202.9	21.31	9.23	29.17	0
4/16/2019 9:45	2.844	202.7	23.35	9.83	29.17	0
4/16/2019 10:00	3.636	224.2	23.37	9.86	29.18	0
4/16/2019 10:15	3.745	218	18.7	10.11	29.18	0
4/16/2019 10:30	3.989	209.7	22.17	10.44	29.18	0
4/16/2019 10:45	5.817	223.2	21.28	10.53	29.18	0
4/16/2019 11:00	5.19	221.5	16.03	10.73	29.19	0
4/16/2019 11:15	6.929	221.5	15.46	10.87	29.19	0
4/16/2019 11:30	5.744	204.5	20.62	10.93	29.19	0
4/16/2019 11:45	6.995	218.6	18.5	11.12	29.19	0
4/16/2019 12:00	8.29	210.5	15.9	11.51	29.17	0
4/16/2019 12:15	9.97	222.8	12.42	11.32	29.17	0
4/16/2019 12:30	9.63	221.8	15.99	11.39	29.17	0
4/16/2019 12:45	9.36	226.4	18.81	11.69	29.17	0
4/16/2019 13:00	7.521	242.9	22.83	11.66	29.19	0
4/16/2019 13:15	9.28	244.3	17.85	11.82	29.19	0
4/16/2019 13:30	6.507	247.1	23.43	11.73	29.19	0
4/16/2019 13:45	9.11	218.2	11.45	11.72	29.19	0
4/16/2019 14:00	7.607	217.2	10.24	11.55	29.21	0
4/16/2019 14:15	6.928	208.1	9.72	11.77	29.21	0

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4/16/2019 14:30	4.558	222.3	20.67	11.88	29.21	0
4/16/2019 14:45	5.691	244.9	18.63	12.12	29.21	0
4/16/2019 15:00	7.126	243.4	19.04	12.06	29.23	0
4/16/2019 15:15	7.504	280.4	11.6	11.71	29.23	0
4/16/2019 15:30	6.434	255.4	11.79	11.4	29.23	0
4/16/2019 15:45	4.427	251.1	12.59	11.45	29.23	0
4/16/2019 16:00	4.699	249	12.9	11.51	29.22	0
4/16/2019 16:15	5.189	262	15.49	11.43	29.22	0
4/16/2019 16:30	4.86	271.7	15.3	11.4	29.22	0
4/16/2019 16:45	7.288	270.7	11.11	11.05	29.22	0
4/16/2019 17:00	7.581	273.9	8.47	10.48	29.25	0
4/16/2019 17:15	3.943	283.2	6.057	10.07	29.25	0.01
4/16/2019 17:30	2.094	284.5	10.01	9.94	29.25	0
4/16/2019 17:45	3.088	262.5	21.29	9.69	29.25	0.02
4/16/2019 18:00	4.517	239.7	16.16	9.5	29.27	0.01
4/16/2019 18:15	5.229	241.4	7.46	9.26	29.27	0.01
4/16/2019 18:30	2.529	207.9	15.92	9.13	29.27	0
4/16/2019 18:45	2.287	137.1	24.8	9.05	29.27	0.02
4/16/2019 19:00	3.565	151.3	14.53	8.89	29.28	0.01
4/16/2019 19:15	3.333	149.8	14.44	8.83	29.28	0.02
4/16/2019 19:30	5.8	141.3	6.424	8.83	29.28	0.01
4/16/2019 19:45	8.4	155.7	9.21	8.94	29.28	0.03
4/16/2019 20:00	9.42	183.5	18.42	9.06	29.29	0.06
4/16/2019 20:15	7.167	268.4	22	9.04	29.29	0.04
4/16/2019 20:30	10.46	236.5	11.78	9.09	29.29	0
4/16/2019 20:45	9.11	228	7.504	9	29.29	0.01
4/16/2019 21:00	9.42	216.8	8.8	8.96	29.3	0
4/16/2019 21:15	8.16	202.3	7.368	8.85	29.3	0
4/16/2019 21:30	8.03	199.4	9.48	8.77	29.3	0
4/16/2019 21:45	9.7	195.8	7.856	8.8	29.3	0
4/16/2019 22:00	9.84	205.8	8.56	8.84	29.31	0
4/16/2019 22:15	11.75	208.4	7.906	8.78	29.31	0.01
4/16/2019 22:30	13.96	211.7	7.759	8.63	29.31	0
4/16/2019 22:45	12.88	215.6	8.09	8.54	29.31	0
4/16/2019 23:00	8.57	207.2	8.72	8.54	29.32	0
4/16/2019 23:15	7.908	197	9.45	8.5	29.32	0
4/16/2019 23:30	7.655	192.2	11.55	8.37	29.32	0
4/16/2019 23:45	9.15	169.8	17.9	8.32	29.32	0
4/17/2019 0:00	7.019	160.2	13.56	8.15	29.33	0
4/17/2019 0:15	5.551	181.4	10.93	8.2	29.33	0
4/17/2019 0:30	5.051	202.8	12.6	8.34	29.33	0
4/17/2019 0:45	7.327	200.7	10.84	8.41	29.33	0
4/17/2019 1:00	6.996	199.4	8.66	8.48	29.37	0
4/17/2019 1:15	7.661	203.9	7.866	8.5	29.37	0
4/17/2019 1:30	8.18	196.6	10	8.36	29.37	0
4/17/2019 1:45	9.24	184.2	8.71	8.18	29.37	0
4/17/2019 2:00	8.68	193.1	8.04	8.09	29.38	0

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4/17/2019 2:15	8.88	190.5	7.707	8.12	29.38	0
4/17/2019 2:30	7.627	187.8	7.48	8.1	29.38	0
4/17/2019 2:45	6.526	186.7	7.079	8.11	29.38	0
4/17/2019 3:00	7.095	183.3	8.03	7.965	29.38	0.01
4/17/2019 3:15	7.124	180.2	7.302	7.839	29.38	0.01
4/17/2019 3:30	6.901	182.4	6.948	7.764	29.38	0.01
4/17/2019 3:45	8.29	191.7	12.9	7.771	29.38	0.01
4/17/2019 4:00	11.17	197.1	10.8	7.713	29.37	0.01
4/17/2019 4:15	9.84	196.4	7.437	7.688	29.37	0
4/17/2019 4:30	8.31	191.8	9.17	7.667	29.37	0.01
4/17/2019 4:45	8.24	180.5	9.27	7.673	29.37	0
4/17/2019 5:00	7.721	179.6	7.957	7.809	29.39	0
4/17/2019 5:15	7.92	181.4	7.587	7.902	29.39	0
4/17/2019 5:30	6.845	176.1	8.07	7.851	29.39	0
4/17/2019 5:45	6.067	168	12.25	7.778	29.39	0
4/17/2019 6:00	6.423	174.7	10.05	7.993	29.42	0
4/17/2019 6:15	5.137	153.4	12.12	7.876	29.42	0
4/17/2019 6:30	5.123	139.2	9.46	7.805	29.42	0
4/17/2019 6:45	6.25	147.9	10.22	7.833	29.42	0
4/17/2019 7:00	7.372	152.6	8.41	7.883	29.43	0
4/17/2019 7:15	5.793	147.7	10.33	7.871	29.43	0
4/17/2019 7:30	5.199	139.4	8.23	7.908	29.43	0
4/17/2019 7:45	4.63	138.2	10.19	8.09	29.43	0
4/17/2019 8:00	5.663	145.5	10.11	8.31	29.44	0
4/17/2019 8:15	5.595	148.4	12.64	8.54	29.44	0
4/17/2019 8:30	5.555	135.5	12.51	8.7	29.44	0
4/17/2019 8:45	4.351	118.4	16.86	8.74	29.44	0
4/17/2019 9:00	5.46	127.5	10.29	8.72	29.45	0
4/17/2019 9:15	4.9	131.7	9.11	9.06	29.45	0
4/17/2019 9:30	4.822	128.2	9.68	9.29	29.45	0
4/17/2019 9:45	4.869	115.2	8.33	9.3	29.45	0
4/17/2019 10:00	3.561	122.3	17.7	9.67	29.46	0
4/17/2019 10:15	4.016	121.7	13.4	9.98	29.46	0
4/17/2019 10:30	4.123	137.8	25.7	10.57	29.46	0
4/17/2019 10:45	6.792	180.8	17	11.04	29.46	0
4/17/2019 11:00	9.52	196.9	9.61	11.17	29.5	0
4/17/2019 11:15	8.91	198.7	9.96	11.16	29.5	0
4/17/2019 11:30	10.69	208.6	9.74	11.17	29.5	0
4/17/2019 11:45	9.75	203.9	10.11	11.25	29.5	0
4/17/2019 12:00	9.2	205.1	9.23	11.6	29.49	0
4/17/2019 12:15	7.864	189.9	16.91	12.06	29.49	0
4/17/2019 12:30	8.11	177.6	23.19	12.62	29.49	0
4/17/2019 12:45	7.732	186.7	15.94	12.55	29.49	0
4/17/2019 13:00	8.7	194.8	15.18	12.91	29.48	0
4/17/2019 13:15	7.461	216.5	15.78	13.27	29.48	0
4/17/2019 13:30	7.704	235	16.63	13.7	29.48	0
4/17/2019 13:45	9.72	218.5	14.87	14.05	29.48	0

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4/17/2019 14:00	9.61	211.9	19.31	14.24	29.47	0
4/17/2019 14:15	8.63	221.6	13.09	14.36	29.47	0
4/17/2019 14:30	10.43	233.2	12.49	14.6	29.47	0
4/17/2019 14:45	8.92	239.6	12.46	14.51	29.47	0
4/17/2019 15:00	9.13	226	20.5	15.08	29.48	0
4/17/2019 15:15	12.17	231.2	12.83	15.17	29.48	0
4/17/2019 15:30	9.92	233.6	22.67	15.09	29.48	0
4/17/2019 15:45	8.15	258.7	15.23	15.13	29.48	0
4/17/2019 16:00	7.047	273.1	22.61	15.24	29.47	0
4/17/2019 16:15	8.7	251.9	14.12	15.9	29.47	0
4/17/2019 16:30	8.58	252.1	17.1	15.75	29.47	0
4/17/2019 16:45	10.05	244	11.14	14.98	29.47	0
4/17/2019 17:00	8.66	224.3	10.54	14.85	29.48	0
4/17/2019 17:15	6.83	210.5	9.15	15.06	29.48	0
4/17/2019 17:30	8.35	216.3	10.9	14.96	29.48	0
4/17/2019 17:45	7.018	213.5	7.814	14.73	29.48	0
4/17/2019 18:00	5.537	215.1	9.02	14.62	29.46	0
4/17/2019 18:15	7.807	233.8	10.53	14.84	29.46	0
4/17/2019 18:30	5.765	246.5	22.5	14.6	29.46	0
4/17/2019 18:45	3.455	266.5	14.17	14.2	29.46	0
4/17/2019 19:00	3.757	251.3	5.804	14.13	29.48	0
4/17/2019 19:15	4.42	259.7	8.61	13.99	29.48	0
4/17/2019 19:30	2.55	272.7	12.88	13.75	29.48	0
4/17/2019 19:45	2.866	266.1	11.3	13.61	29.48	0
4/17/2019 20:00	1.491	255.2	3.082	13.56	29.48	0
4/17/2019 20:15	1.457	260.8	7.85	13.45	29.48	0
4/17/2019 20:30	2.984	245.9	4.782	13.27	29.48	0
4/17/2019 20:45	3.29	238.6	7.168	13.36	29.48	0
4/17/2019 21:00	0.477	174.5	24.37	13.02	29.5	0
4/17/2019 21:15	3.757	243.6	5.297	12.9	29.5	0
4/17/2019 21:30	3.891	231.1	3.896	12.88	29.5	0
4/17/2019 21:45	3.828	216.5	17.83	12.56	29.5	0
4/17/2019 22:00	2.07	148.4	35.1	12.07	29.48	0
4/17/2019 22:15	2.219	161.9	29.69	11.53	29.48	0
4/17/2019 22:30	3.447	193.1	17.17	11.85	29.48	0
4/17/2019 22:45	2.969	159.3	12.59	11.63	29.48	0
4/17/2019 23:00	2.608	104.5	16.3	10.84	29.5	0
4/17/2019 23:15	2.19	121.9	12.2	10.71	29.5	0
4/17/2019 23:30	3.853	169	11.48	11.11	29.5	0
4/17/2019 23:45	4.143	161.3	17.61	11.1	29.5	0
4/18/2019 0:00	4.527	162.2	12.87	11.04	29.48	0
4/18/2019 0:15	5.589	169.8	10.19	10.92	29.48	0
4/18/2019 0:30	5.356	143.5	9.01	10.97	29.48	0
4/18/2019 0:45	4.158	145.1	17.03	10.98	29.48	0
4/18/2019 1:00	4.485	150.6	9.6	10.86	29.47	0
4/18/2019 1:15	5.365	152.6	9.45	10.85	29.47	0
4/18/2019 1:30	5.306	156.5	8.82	10.84	29.47	0

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4/18/2019 1:45	6.359	158.5	8.96	10.79	29.47	0
4/18/2019 2:00	6.738	165.9	9.68	10.76	29.43	0
4/18/2019 2:15	4.192	151.2	10.43	10.68	29.43	0
4/18/2019 2:30	0.431	102.3	21.57	10.47	29.43	0
4/18/2019 2:45	3.259	173.1	12.12	10.8	29.43	0
4/18/2019 3:00	3.084	161.8	9.13	11.01	29.42	0
4/18/2019 3:15	3.347	160.9	10.02	11.07	29.42	0
4/18/2019 3:30	1.777	118.6	20.69	10.68	29.42	0
4/18/2019 3:45	1.887	153.3	18.22	10.81	29.42	0
4/18/2019 4:00	2.469	149	6.973	11.04	29.43	0
4/18/2019 4:15	1.531	144.5	5.323	10.97	29.43	0
4/18/2019 4:30	2.396	126.5	17.56	10.83	29.43	0
4/18/2019 4:45	4.213	151.1	11.47	11.03	29.43	0
4/18/2019 5:00	4.763	154.4	15.65	11.08	29.41	0
4/18/2019 5:15	3.379	113.6	12.26	10.91	29.41	0
4/18/2019 5:30	3.776	137.4	6.987	10.84	29.41	0
4/18/2019 5:45	3.542	164.3	21.99	11.16	29.41	0
4/18/2019 6:00	4.638	208.1	16.03	11.2	29.42	0
4/18/2019 6:15	2.181	239.3	72.37	10.93	29.42	0
4/18/2019 6:30	1.253	303.4	16.59	10.48	29.42	0
4/18/2019 6:45	0.697	23.05	16.62	10.46	29.42	0.01
4/18/2019 7:00	0.21	42.9	0.815	10.16	29.44	0.01
4/18/2019 7:15	0.269	115.1	6.741	9.93	29.44	0.01
4/18/2019 7:30	2.06	113.9	17.21	10.12	29.44	0
4/18/2019 7:45	2.858	158.7	9.82	10.37	29.44	0
4/18/2019 8:00	2.933	129.3	12.07	10.46	29.43	0
4/18/2019 8:15	3.735	125.2	14.23	10.47	29.43	0
4/18/2019 8:30	5.408	123.3	11.28	10.93	29.43	0
4/18/2019 8:45	4.684	154.3	24.25	11.32	29.43	0
4/18/2019 9:00	6.931	179	28.48	11.52	29.41	0
4/18/2019 9:15	6.774	165.6	25.31	11.68	29.41	0
4/18/2019 9:30	4.827	163.1	13.06	12.15	29.41	0
4/18/2019 9:45	5.174	171	15.01	12.37	29.41	0
4/18/2019 10:00	5.426	135.1	17.82	12.98	29.39	0
4/18/2019 10:15	4.746	148.4	29.7	14.04	29.39	0
4/18/2019 10:30	5.944	165.4	12.45	14.64	29.39	0
4/18/2019 10:45	4.867	151.1	16.22	14.85	29.39	0
4/18/2019 11:00	4.833	203.8	14.36	14.89	29.41	0
4/18/2019 11:15	5.469	209.6	9.77	14.89	29.41	0
4/18/2019 11:30	4.224	188.8	32.07	15.21	29.41	0
4/18/2019 11:45	7.469	187.7	20.43	15.29	29.41	0
4/18/2019 12:00	7.215	186.4	10.9	15.06	29.38	0
4/18/2019 12:15	4.975	188.1	27.92	15.24	29.38	0
4/18/2019 12:30	6.492	176.5	16.03	15.13	29.38	0
4/18/2019 12:45	6.475	191.8	12.83	15.08	29.38	0
4/18/2019 13:00	3.841	173	19.4	15.26	29.37	0
4/18/2019 13:15	3.16	149	29.25	15.66	29.37	0



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4/18/2019 13:30	5.506	163.2	28.54	15.79	29.37	0
4/18/2019 13:45	4.236	169.6	18.14	15.79	29.37	0
4/18/2019 14:00	3.376	149.3	27.24	16.13	29.35	0
4/18/2019 14:15	3.807	179.5	21.63	16.27	29.35	0
4/18/2019 14:30	4.076	179.1	24.1	16.41	29.35	0
4/18/2019 14:45	3.505	185.6	42.72	16.55	29.35	0
4/18/2019 15:00	4.315	182.6	13.25	16.55	29.31	0
4/18/2019 15:15	3.782	175.6	24.63	16.76	29.31	0
4/18/2019 15:30	3.906	152.1	27.21	16.82	29.31	0
4/18/2019 15:45	4.2	160.6	10.6	16.86	29.31	0
4/18/2019 16:00	3.695	188.6	19.85	16.92	29.28	0
4/18/2019 16:15	3.297	186.7	19.9	17.06	29.28	0
4/18/2019 16:30	3.543	194.2	16.75	17.24	29.28	0
4/18/2019 16:45	3.697	204.4	11.75	17.03	29.28	0
4/18/2019 17:00	4.361	230.5	8.47	16.94	29.26	0
4/18/2019 17:15	4.62	231	6.14	16.77	29.26	0
4/18/2019 17:30	4.661	234.2	5.079	16.52	29.26	0
4/18/2019 17:45	4.032	245.7	6.557	16.13	29.26	0
4/18/2019 18:00	4.58	261.1	9.25	15.79	29.25	0
4/18/2019 18:15	7.405	272.5	10.2	15.5	29.25	0
4/18/2019 18:30	8.58	278.6	7.986	15.03	29.25	0
4/18/2019 18:45	9.05	265.5	11.71	14.59	29.25	0
4/18/2019 19:00	9.47	255.8	7.717	14.11	29.27	0.01
4/18/2019 19:15	9.52	236	9.72	13.89	29.27	0
4/18/2019 19:30	5.079	202.9	16.18	13.38	29.27	0.02
4/18/2019 19:45	5.891	219.4	11.3	13.1	29.27	0
4/18/2019 20:00	5.486	234.2	6.921	13.02	29.28	0
4/18/2019 20:15	4.36	203.5	19.5	12.89	29.28	0
4/18/2019 20:30	4.81	175.3	14.22	12.8	29.28	0
4/18/2019 20:45	5.859	144.4	17.18	12.57	29.28	0
4/18/2019 21:00	6.467	155.5	9.96	12.47	29.27	0
4/18/2019 21:15	6.485	148.1	6.735	12.36	29.27	0
4/18/2019 21:30	5.971	145.5	6.803	12.41	29.27	0
4/18/2019 21:45	4.785	135.5	10.18	12.45	29.27	0
4/18/2019 22:00	6.785	163	14.72	12.67	29.26	0
4/18/2019 22:15	5.868	144.5	9.27	12.64	29.26	0
4/18/2019 22:30	5.391	178.2	13.74	12.82	29.26	0
4/18/2019 22:45	4.715	162.4	10.83	12.73	29.26	0
4/18/2019 23:00	2.659	155.4	9.19	12.66	29.26	0
4/18/2019 23:15	3.566	162.3	11.88	12.63	29.26	0
4/18/2019 23:30	5.13	178.9	11.99	12.53	29.26	0
4/18/2019 23:45	4.934	142.4	9.2	12.43	29.26	0
4/19/2019 0:00	4.448	133.7	6.181	12.37	29.24	0
4/19/2019 0:15	3.177	138.3	14.9	12.53	29.24	0
4/19/2019 0:30	4.384	166	11.74	12.56	29.24	0
4/19/2019 0:45	5.73	140.6	6.566	12.56	29.24	0
4/19/2019 1:00	5.518	133.7	7.112	12.69	29.2	0

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4/19/2019 1:15	6.039	134.3	7.688	12.72	29.2	0
4/19/2019 1:30	6.387	146.6	6.651	12.79	29.2	0
4/19/2019 1:45	6.23	159.3	7.426	12.79	29.2	0
4/19/2019 2:00	6.14	176.7	10.43	12.76	29.18	0
4/19/2019 2:15	7.064	170.6	9.47	12.64	29.18	0
4/19/2019 2:30	7.21	157.7	8.17	12.5	29.18	0
4/19/2019 2:45	7.581	161.7	11.61	12.53	29.18	0
4/19/2019 3:00	6.731	192.6	9.17	12.52	29.18	0
4/19/2019 3:15	6.071	195.2	7.143	12.34	29.18	0
4/19/2019 3:30	6.44	210.7	7.008	12.31	29.18	0
4/19/2019 3:45	7.633	214.6	6.04	12.23	29.18	0
4/19/2019 4:00	7.394	206.3	8.23	12.13	29.19	0
4/19/2019 4:15	6.139	199.1	10.44	12.01	29.19	0
4/19/2019 4:30	6.234	239.7	11.9	11.84	29.19	0
4/19/2019 4:45	10.22	233	9.28	11.62	29.19	0.01
4/19/2019 5:00	8.43	227	10.67	11.5	29.18	0.03
4/19/2019 5:15	7.011	214.5	10.24	11.37	29.18	0.01
4/19/2019 5:30	5.554	192.8	18.65	11.23	29.18	0.02
4/19/2019 5:45	6.759	120.7	20.44	10.96	29.18	0.02
4/19/2019 6:00	6.505	113.3	12.24	10.9	29.2	0.01
4/19/2019 6:15	6.534	124.8	14.79	10.93	29.2	0
4/19/2019 6:30	6.121	133.4	10.8	10.92	29.2	0
4/19/2019 6:45	7.245	130.5	8.92	10.98	29.2	0.01
4/19/2019 7:00	6.651	130.4	10.57	11	29.17	0
4/19/2019 7:15	6.182	128.6	11.94	11.12	29.17	0.01
4/19/2019 7:30	6.679	129.1	7.996	11.18	29.17	0
4/19/2019 7:45	7.155	148.3	9.5	11.29	29.17	0
4/19/2019 8:00	5.77	168.1	13.69	11.5	29.19	0
4/19/2019 8:15	6.36	149	8.56	11.42	29.19	0
4/19/2019 8:30	6.239	156.4	6.524	11.39	29.19	0
4/19/2019 8:45	5.778	148.9	6.543	11.41	29.19	0.01
4/19/2019 9:00	6.392	134.6	7.474	11.43	29.17	0
4/19/2019 9:15	5.578	154.8	15.5	11.45	29.17	0
4/19/2019 9:30	5.253	180.4	16.38	11.57	29.17	0.01
4/19/2019 9:45	5.443	171	13.98	11.72	29.17	0
4/19/2019 10:00	6.406	175.4	10.94	11.73	29.19	0.01
4/19/2019 10:15	5.933	173.9	14.3	11.87	29.19	0
4/19/2019 10:30	6.487	176.3	12.25	11.84	29.19	0.01
4/19/2019 10:45	7.212	188.7	10.64	11.86	29.19	0
4/19/2019 11:00	6.844	213.5	9.66	12.06	29.17	0.01
4/19/2019 11:15	7.049	212.9	10.69	12.03	29.17	0
4/19/2019 11:30	6.737	217.2	11.86	12.01	29.17	0.01
4/19/2019 11:45	7.31	261.4	16	11.67	29.17	0.01
4/19/2019 12:00	7.895	270.9	9.93	11.52	29.18	0.01
4/19/2019 12:15	5.688	278.9	6.732	11.56	29.18	0
4/19/2019 12:30	4.444	273.1	9.36	11.6	29.18	0.01
4/19/2019 12:45	4.098	268.7	10.65	11.69	29.18	0

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4/19/2019 13:00	3.513	281.1	14.67	11.69	29.17	0.01
4/19/2019 13:15	2.428	294.4	11.25	11.84	29.17	0.01
4/19/2019 13:30	2.142	286.7	20.47	11.85	29.17	0.01
4/19/2019 13:45	1.972	297.1	10.64	11.85	29.17	0
4/19/2019 14:00	1.893	303.6	9.57	11.96	29.15	0.01
4/19/2019 14:15	5.23	13.16	28.61	11.62	29.15	0
4/19/2019 14:30	10.76	25.48	9.92	10.55	29.15	0.02
4/19/2019 14:45	8.99	16.36	12.5	10.52	29.15	0.01
4/19/2019 15:00	10.36	13.64	12.26	10.31	29.17	0
4/19/2019 15:15	10.99	21.12	12.2	10.11	29.17	0.01
4/19/2019 15:30	11.89	24.5	13.59	10.01	29.17	0
4/19/2019 15:45	12.7	21.73	11.35	9.96	29.17	0
4/19/2019 16:00	12.28	17.39	17.11	9.95	29.14	0
4/19/2019 16:15	11.31	22.31	18.12	10.01	29.14	0
4/19/2019 16:30	11.59	25.93	12.29	10.01	29.14	0
4/19/2019 16:45	11.41	32.09	13.34	9.93	29.14	0.01
4/19/2019 17:00	10.33	38.5	10.92	9.81	29.13	0
4/19/2019 17:15	9.24	39.22	15.61	9.72	29.13	0
4/19/2019 17:30	8.09	26.08	15.43	9.67	29.13	0.01
4/19/2019 17:45	6.129	33.42	16.44	9.63	29.13	0
4/19/2019 18:00	3.792	351.7	24.41	9.67	29.13	0
4/19/2019 18:15	3.189	358.5	19.69	9.72	29.13	0.01
4/19/2019 18:30	1.361	7.382	51.93	9.71	29.13	0
4/19/2019 18:45	1.769	25.05	27.28	9.81	29.13	0
4/19/2019 19:00	2.367	344.5	18.48	9.96	29.12	0
4/19/2019 19:15	4.127	7.888	19.18	10.09	29.12	0
4/19/2019 19:30	3.419	37.63	11.69	10.05	29.12	0
4/19/2019 19:45	1.354	22.88	19.89	9.92	29.12	0
4/19/2019 20:00	2.982	317.5	24.5	10.13	29.13	0
4/19/2019 20:15	2.107	5.324	25.15	10.39	29.13	0
4/19/2019 20:30	2.902	17.74	21.65	9.72	29.13	0
4/19/2019 20:45	3.565	0.681	24.4	9.97	29.13	0
4/19/2019 21:00	2.669	13.47	14.73	9.58	29.14	0
4/19/2019 21:15	2.424	20.78	14.96	9.15	29.14	0
4/19/2019 21:30	2.721	2.586	17.35	8.93	29.14	0
4/19/2019 21:45	5.923	2.554	13.36	9.51	29.14	0
4/19/2019 22:00	4.192	355.4	14.49	9.46	29.15	0
4/19/2019 22:15	3.057	344.3	18.7	9.67	29.15	0
4/19/2019 22:30	3.85	18.6	17.44	9.43	29.15	0
4/19/2019 22:45	4.879	17.29	7.433	9.41	29.15	0
4/19/2019 23:00	3.191	326.4	22.16	9.4	29.16	0
4/19/2019 23:15	4.248	314.8	7.393	9.28	29.16	0
4/19/2019 23:30	4.096	330.4	7.803	9.11	29.16	0
4/19/2019 23:45	2.842	19.61	16.37	8.86	29.16	0
4/20/2019 0:00	3.59	336.8	15.19	8.96	29.16	0
4/20/2019 0:15	5.217	5.728	16.29	8.99	29.16	0
4/20/2019 0:30	5.594	9.89	9.33	9.07	29.16	0

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4/20/2019 0:45	5.892	10.37	12.34	9.11	29.16	0
4/20/2019 1:00	7.216	17.67	14.11	8.95	29.16	0
4/20/2019 1:15	7.458	3.725	17.51	9.02	29.16	0
4/20/2019 1:30	6.301	350.4	11.27	9.12	29.16	0
4/20/2019 1:45	5.741	345.8	20.38	9.08	29.16	0
4/20/2019 2:00	2.953	358	16.37	8.81	29.16	0
4/20/2019 2:15	3.183	316.2	16.66	8.75	29.16	0
4/20/2019 2:30	2.169	316.2	18.39	8.68	29.16	0
4/20/2019 2:45	2.673	344.7	12.3	8.57	29.16	0
4/20/2019 3:00	1.374	0.223	29.99	8.53	29.16	0
4/20/2019 3:15	3.357	21.02	10.33	8.49	29.16	0
4/20/2019 3:30	4.847	11.64	12.61	8.43	29.16	0
4/20/2019 3:45	6.909	344.6	21.04	8.65	29.16	0
4/20/2019 4:00	7.052	347.2	19.6	8.53	29.15	0
4/20/2019 4:15	5.835	5.563	23.91	8.36	29.15	0
4/20/2019 4:30	2.774	279.1	22.9	8.35	29.15	0
4/20/2019 4:45	3.46	320.4	27.96	8.18	29.15	0
4/20/2019 5:00	3.075	309.8	30.26	8.03	29.16	0
4/20/2019 5:15	3.032	303.1	37.82	7.752	29.16	0
4/20/2019 5:30	2.735	334.8	52.87	7.56	29.16	0
4/20/2019 5:45	4.493	341.5	20.62	7.284	29.16	0
4/20/2019 6:00	3.179	1.858	24.58	7.122	29.19	0
4/20/2019 6:15	1.962	350.7	37.92	7.638	29.19	0
4/20/2019 6:30	3.342	11.68	49.77	7.868	29.19	0
4/20/2019 6:45	5.48	358.8	25	7.825	29.19	0
4/20/2019 7:00	6.743	16.19	19.04	7.489	29.2	0
4/20/2019 7:15	9.25	26.77	10.57	7.28	29.2	0
4/20/2019 7:30	9.91	30.86	11.56	7.166	29.2	0
4/20/2019 7:45	5.607	22.08	24.81	7.259	29.2	0
4/20/2019 8:00	7.479	1.74	23.59	7.352	29.19	0
4/20/2019 8:15	9.33	9.88	19.82	7.381	29.19	0
4/20/2019 8:30	10.08	19.03	8.54	7.42	29.19	0
4/20/2019 8:45	10.14	10.02	13.72	7.884	29.19	0
4/20/2019 9:00	10.74	6.929	14.76	8.02	29.2	0
4/20/2019 9:15	9.74	7.353	12.98	8.17	29.2	0
4/20/2019 9:30	8.85	13.05	12.36	7.911	29.2	0
4/20/2019 9:45	8.22	20.71	10.94	7.632	29.2	0
4/20/2019 10:00	7.442	20.78	6.558	7.638	29.21	0
4/20/2019 10:15	6.722	18.13	13.04	7.823	29.21	0
4/20/2019 10:30	6.246	22.19	13.42	7.994	29.21	0
4/20/2019 10:45	6.092	6.901	16.58	8.54	29.21	0
4/20/2019 11:00	7.257	337.5	13.78	8.9	29.22	0
4/20/2019 11:15	7.534	334.6	15.45	8.87	29.22	0
4/20/2019 11:30	8.5	342.5	20.37	8.61	29.22	0
4/20/2019 11:45	5.415	5.317	15.73	8.67	29.22	0
4/20/2019 12:00	5.161	359.8	19.25	8.95	29.23	0
4/20/2019 12:15	4.988	33.02	24.11	8.95	29.23	0

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4/20/2019 12:30	3.016	40.36	14.78	9.29	29.23	0
4/20/2019 12:45	5.304	354.8	28.25	9.47	29.23	0
4/20/2019 13:00	4.898	328.1	22.64	9.36	29.25	0
4/20/2019 13:15	2.726	302.8	13.39	9.84	29.25	0
4/20/2019 13:30	2.855	318.4	44.29	10.12	29.25	0
4/20/2019 13:45	4.427	302.2	20.31	9.88	29.25	0
4/20/2019 14:00	5.402	288.7	17.4	10.48	29.23	0
4/20/2019 14:15	4.588	284.4	22.73	11.32	29.23	0
4/20/2019 14:30	5.418	312.9	13.58	11.39	29.23	0
4/20/2019 14:45	3.618	25.78	48.81	11.27	29.23	0
4/20/2019 15:00	2.46	290.7	39.4	12.4	29.23	0
4/20/2019 15:15	2.078	245.5	67.78	12.05	29.23	0
4/20/2019 15:30	2.683	318.1	59.23	13.17	29.23	0
4/20/2019 15:45	4.908	42.12	20.37	12.67	29.23	0
4/20/2019 16:00	5.509	51.62	13.48	12.32	29.23	0
4/20/2019 16:15	5.65	37.28	10.25	12.22	29.23	0
4/20/2019 16:30	3.863	28.59	15.89	12.53	29.23	0
4/20/2019 16:45	4.798	36.6	11.47	12.53	29.23	0
4/20/2019 17:00	4.96	48.34	16.11	12.52	29.25	0
4/20/2019 17:15	4.642	37.12	11.24	12.56	29.25	0
4/20/2019 17:30	3.142	45.39	21.68	12.63	29.25	0
4/20/2019 17:45	2.683	46.03	13.19	12.39	29.25	0
4/20/2019 18:00	2.568	40.41	17.44	12.48	29.26	0
4/20/2019 18:15	1.686	36.92	6.819	12.52	29.26	0
4/20/2019 18:30	1.428	38.93	2.779	12.5	29.26	0
4/20/2019 18:45	2.625	39.56	3.063	12	29.26	0
4/20/2019 19:00	2.083	40.2	2.849	11.69	29.28	0
4/20/2019 19:15	2.157	25.91	5.744	11.42	29.28	0
4/20/2019 19:30	2.979	17.79	10.86	10.97	29.28	0
4/20/2019 19:45	3.757	30.35	5.869	10.37	29.28	0
4/20/2019 20:00	2.14	25.63	5.574	10.49	29.27	0
4/20/2019 20:15	2.315	33.92	7.416	9.98	29.27	0
4/20/2019 20:30	2.23	48.25	2.514	9.82	29.27	0
4/20/2019 20:45	1.26	60.57	9.99	9.78	29.27	0
4/20/2019 21:00	1.408	79.33	4.505	9.41	29.31	0
4/20/2019 21:15	2.579	102.8	4.307	8.87	29.31	0
4/20/2019 21:30	2.259	100.7	10.14	8.62	29.31	0
4/20/2019 21:45	3.279	156.3	5.393	9.08	29.31	0
4/20/2019 22:00	2.841	129.2	12.06	8.67	29.33	0
4/20/2019 22:15	2.902	110.3	6.438	8.33	29.33	0
4/20/2019 22:30	3.152	122.4	4.936	8.15	29.33	0
4/20/2019 22:45	3.951	139.1	3.555	8.66	29.33	0
4/20/2019 23:00	3.576	136.2	4.629	9.03	29.32	0
4/20/2019 23:15	3.375	139.4	4.655	8.92	29.32	0
4/20/2019 23:30	3.26	132.6	4.259	8.94	29.32	0
4/20/2019 23:45	2.356	126.7	0.862	8.97	29.32	0
4/21/2019 0:00	2.027	149.4	13.69	8.92	29.35	0

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4/21/2019 0:15	6.086	200.8	21.07	8.15	29.35	0
4/21/2019 0:30	7.25	207.7	6.858	7.731	29.35	0
4/21/2019 0:45	5.474	172.9	21.21	7.871	29.35	0
4/21/2019 1:00	4.992	106.4	9.99	7.071	29.36	0
4/21/2019 1:15	3.162	121.9	11.51	6.923	29.36	0
4/21/2019 1:30	3.91	154.9	14.72	7.302	29.36	0
4/21/2019 1:45	4.491	140.9	11.45	7.41	29.36	0
4/21/2019 2:00	3.589	121.6	4.583	7.429	29.39	0
4/21/2019 2:15	4.958	128.3	6.67	7.578	29.39	0
4/21/2019 2:30	4.792	145.3	9.85	7.892	29.39	0
4/21/2019 2:45	3.765	162	11.67	7.733	29.39	0
4/21/2019 3:00	3.924	136.2	4.763	7.65	29.4	0
4/21/2019 3:15	3.417	144.8	17.14	7.609	29.4	0
4/21/2019 3:30	4.307	126.4	5.317	8.02	29.4	0
4/21/2019 3:45	3.882	126.5	2.619	8.1	29.4	0
4/21/2019 4:00	3.509	144.2	14.11	7.962	29.41	0
4/21/2019 4:15	3.862	161.4	14.16	7.519	29.41	0
4/21/2019 4:30	4.482	190.7	9.94	7.559	29.41	0
4/21/2019 4:45	4.629	199.1	7.607	7.481	29.41	0
4/21/2019 5:00	4.457	186.8	8.2	7.154	29.42	0
4/21/2019 5:15	4.967	190.7	11.26	7.004	29.42	0
4/21/2019 5:30	3.944	195.3	11.62	6.749	29.42	0
4/21/2019 5:45	3.334	168.9	21.42	6.499	29.42	0
4/21/2019 6:00	2.123	147.3	20.96	6.505	29.46	0
4/21/2019 6:15	1.963	121.5	7.926	6.428	29.46	0
4/21/2019 6:30	2.179	153.3	18.63	6.349	29.46	0
4/21/2019 6:45	5.221	129.4	8	6.813	29.46	0
4/21/2019 7:00	5.386	139.4	9.39	7.134	29.44	0
4/21/2019 7:15	5.012	166	16.16	7.312	29.44	0
4/21/2019 7:30	5.338	201.8	7.962	7.269	29.44	0
4/21/2019 7:45	4.043	203.6	11.51	7.191	29.44	0
4/21/2019 8:00	3.889	172	11.7	7.411	29.49	0
4/21/2019 8:15	3.969	147.3	10.9	7.721	29.49	0
4/21/2019 8:30	4.617	158.2	14.63	8.22	29.49	0
4/21/2019 8:45	5.551	162.8	20.7	8.47	29.49	0
4/21/2019 9:00	5.214	180.4	18.66	8.71	29.5	0
4/21/2019 9:15	6.108	153.2	21	9.07	29.5	0
4/21/2019 9:30	6.864	147.5	11.81	9.16	29.5	0
4/21/2019 9:45	6.003	146.1	16.67	9.4	29.5	0
4/21/2019 10:00	6.364	141.1	15.43	9.49	29.5	0
4/21/2019 10:15	5.509	154.4	13.14	9.53	29.5	0
4/21/2019 10:30	3.678	128.8	34.7	9.88	29.5	0
4/21/2019 10:45	6.359	161.4	15.67	9.92	29.5	0
4/21/2019 11:00	4.867	173	20.6	10.25	29.47	0
4/21/2019 11:15	3.783	161.4	41.39	10.6	29.47	0
4/21/2019 11:30	4.966	204.2	27.87	10.59	29.47	0
4/21/2019 11:45	4.346	191.1	49.06	11	29.47	0

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4/21/2019 12:00	1.159	63.08	51.81	11.3	29.49	0
4/21/2019 12:15	4.36	293	54.11	11.63	29.49	0
4/21/2019 12:30	2.468	342.2	60.79	11.86	29.49	0
4/21/2019 12:45	2.457	330.6	40.03	12.08	29.49	0
4/21/2019 13:00	5.948	259.1	19.21	12.66	29.47	0
4/21/2019 13:15	5.391	257.7	45.32	12.69	29.47	0
4/21/2019 13:30	5.388	293.2	17.52	12.83	29.47	0
4/21/2019 13:45	3.181	304.3	30.05	13.21	29.47	0
4/21/2019 14:00	4.052	224.5	49.36	13.6	29.48	0
4/21/2019 14:15	6.796	201.6	19.17	13.69	29.48	0
4/21/2019 14:30	5.715	189.7	18.33	13.86	29.48	0
4/21/2019 14:45	6.966	198.1	24.67	13.9	29.48	0
4/21/2019 15:00	4.958	227.3	23.46	14.12	29.47	0
4/21/2019 15:15	4.393	264.1	55.41	14.23	29.47	0
4/21/2019 15:30	5.402	215	51.53	14.24	29.47	0
4/21/2019 15:45	5.933	248.6	25.81	14.58	29.47	0
4/21/2019 16:00	5.328	249.4	30.8	14.15	29.46	0
4/21/2019 16:15	6.774	213.8	17.78	13.99	29.46	0
4/21/2019 16:30	6.895	251.1	15.89	14.05	29.46	0
4/21/2019 16:45	5.907	245.2	13.7	14.02	29.46	0
4/21/2019 17:00	6.536	265.3	25.53	14.2	29.46	0
4/21/2019 17:15	6.105	282.1	11.04	13.8	29.46	0
4/21/2019 17:30	5.951	249	14.5	13.94	29.46	0
4/21/2019 17:45	5.439	243.8	14.43	13.91	29.46	0
4/21/2019 18:00	5.687	263.5	9.01	13.6	29.45	0
4/21/2019 18:15	4.717	247.8	9.71	13.43	29.45	0
4/21/2019 18:30	4.671	257.1	6.974	13.15	29.45	0
4/21/2019 18:45	4.1	271.1	5.641	12.88	29.45	0
4/21/2019 19:00	3.756	270.9	2.526	12.56	29.45	0
4/21/2019 19:15	4.198	271.1	3.377	12.39	29.45	0
4/21/2019 19:30	3.916	270.7	3.897	12.24	29.45	0
4/21/2019 19:45	3.991	281.5	3.847	12.08	29.45	0
4/21/2019 20:00	1.513	304.7	15.23	11.76	29.48	0
4/21/2019 20:15	2.697	266.4	28.27	11.59	29.48	0
4/21/2019 20:30	2.899	236.8	12	11.46	29.48	0
4/21/2019 20:45	3.572	241.8	10.16	11.18	29.48	0
4/21/2019 21:00	2.061	213.4	24.59	10.96	29.48	0
4/21/2019 21:15	0.945	137.6	11.99	10.53	29.48	0
4/21/2019 21:30	0.555	180.6	26.52	10.66	29.48	0
4/21/2019 21:45	3.587	247.5	12.61	10.57	29.48	0
4/21/2019 22:00	2.697	215.5	7.475	10.04	29.48	0
4/21/2019 22:15	4.989	212.7	6.905	9.59	29.48	0
4/21/2019 22:30	5.804	210.2	6.957	9.08	29.48	0
4/21/2019 22:45	5.653	215.9	4.675	8.99	29.48	0
4/21/2019 23:00	5.065	219.7	5.297	8.69	29.49	0
4/21/2019 23:15	4.883	205.2	11.68	8.48	29.49	0
4/21/2019 23:30	4.28	176.4	6.438	8.14	29.49	0

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4/21/2019 23:45	4.461	182.5	3.886	8.17	29.49	0
4/22/2019 0:00	3.554	161.9	9.21	7.852	29.48	0
4/22/2019 0:15	3.49	151.1	15.39	7.691	29.48	0
4/22/2019 0:30	3.751	127.7	4.967	7.523	29.48	0
4/22/2019 0:45	3.213	133.5	5.186	7.621	29.48	0
4/22/2019 1:00	3.668	130.1	4.704	7.388	29.49	0
4/22/2019 1:15	4.846	127.3	4.63	7.41	29.49	0
4/22/2019 1:30	5.198	135	6.167	7.52	29.49	0
4/22/2019 1:45	5.005	141.4	3.477	7.349	29.49	0
4/22/2019 2:00	5.276	133.1	4.074	7.395	29.44	0
4/22/2019 2:15	5.39	145	6.737	7.442	29.44	0
4/22/2019 2:30	5.803	141.3	7.199	7.166	29.44	0
4/22/2019 2:45	5.549	142.6	5.536	7.032	29.44	0
4/22/2019 3:00	5.355	155.6	4.465	7.052	29.44	0
4/22/2019 3:15	4.471	151.4	8.58	6.942	29.44	0
4/22/2019 3:30	4.324	146.9	6.731	6.936	29.44	0
4/22/2019 3:45	4.697	137.1	6.268	6.341	29.44	0
4/22/2019 4:00	5.394	127.5	5.442	6.466	29.43	0
4/22/2019 4:15	4.762	134.7	5.853	6.942	29.43	0
4/22/2019 4:30	5.187	174.2	18.96	7.143	29.43	0
4/22/2019 4:45	6.418	201.1	8.22	6.33	29.43	0
4/22/2019 5:00	6.835	200	12.05	6.366	29.44	0
4/22/2019 5:15	6.15	202.2	11.39	6.392	29.44	0
4/22/2019 5:30	4.487	172.9	11.69	6.679	29.44	0
4/22/2019 5:45	4.373	188.7	9.15	6.771	29.44	0
4/22/2019 6:00	6.155	195.3	6.618	6.67	29.46	0
4/22/2019 6:15	6.757	191.1	9.76	6.55	29.46	0
4/22/2019 6:30	7.123	208.4	6.028	6.215	29.46	0
4/22/2019 6:45	7.45	195.4	7.5	6.507	29.46	0
4/22/2019 7:00	5.817	176.2	7.776	7.103	29.44	0
4/22/2019 7:15	4.355	200.2	10.13	7.36	29.44	0
4/22/2019 7:30	5.405	227.7	35.57	7.361	29.44	0
4/22/2019 7:45	6.845	199.9	10.71	7.686	29.44	0
4/22/2019 8:00	6.267	182.6	12.46	8.4	29.44	0
4/22/2019 8:15	5.368	179	19.86	9.19	29.44	0
4/22/2019 8:30	5.922	167.1	14.45	10.25	29.44	0
4/22/2019 8:45	4.118	196.6	19.28	10.58	29.44	0
4/22/2019 9:00	4.625	183.6	27.46	11.42	29.4	0
4/22/2019 9:15	5.871	172.8	19.74	12.97	29.4	0
4/22/2019 9:30	6.602	177.5	17.95	13.72	29.4	0
4/22/2019 9:45	8.72	184.7	16.97	14.12	29.4	0
4/22/2019 10:00	8.86	191.7	16.03	14.19	29.41	0
4/22/2019 10:15	8.17	199	12.69	14.35	29.41	0
4/22/2019 10:30	9.99	209.3	18.16	14.58	29.41	0
4/22/2019 10:45	6.057	184.9	11.72	14.56	29.41	0
4/22/2019 11:00	7.3	217.8	19.91	14.55	29.43	0
4/22/2019 11:15	5.351	230	14.15	14.39	29.43	0.01



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4/22/2019 11:30	2.619	254.9	15.4	14.15	29.43	0
4/22/2019 11:45	3.111	262.2	17.51	14.1	29.43	0
4/22/2019 12:00	2.376	227.9	30.8	13.99	29.44	0
4/22/2019 12:15	1.806	255.5	83.3	13.72	29.44	0.01
4/22/2019 12:30	2.216	13.63	29.14	13.62	29.44	0
4/22/2019 12:45	3.911	304.2	39.74	13.7	29.44	0
4/22/2019 13:00	6.77	277	11.53	13.48	29.44	0
4/22/2019 13:15	8.2	267	12.26	13.16	29.44	0
4/22/2019 13:30	9.65	268.2	10.27	12.86	29.44	0
4/22/2019 13:45	13.44	278.2	11.39	11.42	29.44	0
4/22/2019 14:00	8.93	273.3	9.74	10.67	29.46	0
4/22/2019 14:15	5.804	258.4	16.66	10.61	29.46	0.01
4/22/2019 14:30	5.477	231.6	9.84	10.3	29.46	0
4/22/2019 14:45	5.767	228.4	14.92	9.94	29.46	0.01
4/22/2019 15:00	6.864	213.8	12.59	9.44	29.46	0.01
4/22/2019 15:15	7.721	208.5	8.68	9.11	29.46	0.01
4/22/2019 15:30	4.137	200.1	10.32	8.93	29.46	0.01
4/22/2019 15:45	3.199	162.4	13.93	8.94	29.46	0
4/22/2019 16:00	4.195	138.9	14.64	9.01	29.44	0.02
4/22/2019 16:15	5.338	134.1	14.05	9.12	29.44	0.02
4/22/2019 16:30	5.318	130.8	8.82	9.16	29.44	0.02
4/22/2019 16:45	6.436	133.1	7.574	9.14	29.44	0.03
4/22/2019 17:00	7.013	137.8	7.218	9.17	29.43	0.02
4/22/2019 17:15	6.997	132.5	10.27	9.28	29.43	0.01
4/22/2019 17:30	8.3	131.5	9.83	9.41	29.43	0.01
4/22/2019 17:45	6.239	137.7	10.72	9.52	29.43	0.01
4/22/2019 18:00	6.178	136.1	8.59	9.61	29.41	0.01
4/22/2019 18:15	6.082	139.9	7.937	9.7	29.41	0
4/22/2019 18:30	6.861	144.8	7.867	9.8	29.41	0
4/22/2019 18:45	5.713	147.8	7.714	9.86	29.41	0
4/22/2019 19:00	5.27	144.1	9.16	10	29.39	0
4/22/2019 19:15	7.071	153.6	10.04	10.12	29.39	0
4/22/2019 19:30	7.779	177.4	14.7	10.25	29.39	0
4/22/2019 19:45	6.255	170.2	12.62	10.2	29.39	0
4/22/2019 20:00	4.132	149.2	13.68	10.11	29.39	0
4/22/2019 20:15	5.023	155.6	10.33	10.04	29.39	0
4/22/2019 20:30	6.774	169.3	11.08	10.03	29.39	0
4/22/2019 20:45	7.991	183.7	8.85	10.19	29.39	0
4/22/2019 21:00	5.254	176	16.09	10.08	29.39	0
4/22/2019 21:15	5.852	185.9	8.86	10.14	29.39	0
4/22/2019 21:30	5.961	191	8.49	10.19	29.39	0
4/22/2019 21:45	5.884	199.7	10.04	10.18	29.39	0
4/22/2019 22:00	3.944	200.9	14.16	10.13	29.39	0
4/22/2019 22:15	3.409	171.3	20.6	10.04	29.39	0
4/22/2019 22:30	4.458	170.2	17.98	10.1	29.39	0
4/22/2019 22:45	4.836	171.1	16.47	9.97	29.39	0
4/22/2019 23:00	6.305	160.3	9.58	9.96	29.37	0

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4/22/2019 23:15	5.606	155.8	16.85	10.13	29.37	0
4/22/2019 23:30	3.965	156.7	18.7	10.16	29.37	0
4/22/2019 23:45	6.4	190.1	13.07	10.29	29.37	0
4/23/2019 0:00	6.105	187.3	10.94	10.25	29.36	0
4/23/2019 0:15	3.622	204.7	25.32	10.37	29.36	0
4/23/2019 0:30	4.682	219.4	19.1	10.49	29.36	0
4/23/2019 0:45	4.408	234.1	13.84	10.36	29.36	0
4/23/2019 1:00	5.141	189.1	33.39	10.33	29.36	0
4/23/2019 1:15	3.138	181.9	20.05	10.11	29.36	0
4/23/2019 1:30	3.934	216.3	9.64	10.13	29.36	0
4/23/2019 1:45	3.479	201	8.72	10.08	29.36	0
4/23/2019 2:00	4.016	210.3	7.058	10.06	29.38	0.01
4/23/2019 2:15	3.437	203.5	12.45	10.01	29.38	0.01
4/23/2019 2:30	3.665	195.3	11.53	9.99	29.38	0
4/23/2019 2:45	5.51	209.9	16.88	9.95	29.38	0
4/23/2019 3:00	4.915	205.8	12.22	9.94	29.36	0
4/23/2019 3:15	5.404	202.8	17.61	9.92	29.36	0
4/23/2019 3:30	4.179	205.1	14.48	9.86	29.36	0
4/23/2019 3:45	3.497	190	16.45	9.81	29.36	0
4/23/2019 4:00	3.509	190.5	16.78	9.79	29.36	0
4/23/2019 4:15	3.977	184.8	16.06	9.8	29.36	0.01
4/23/2019 4:30	4.927	190.1	11.1	9.81	29.36	0
4/23/2019 4:45	5.184	191.8	10.04	9.82	29.36	0
4/23/2019 5:00	5.639	193.3	11.85	9.87	29.34	0
4/23/2019 5:15	5.417	193.9	11.07	9.92	29.34	0
4/23/2019 5:30	5.278	197.8	10.88	10.02	29.34	0
4/23/2019 5:45	5.935	189.5	11.96	10.08	29.34	0
4/23/2019 6:00	7.649	190.9	10.37	10.14	29.33	0
4/23/2019 6:15	7.305	186.4	9.7	10.18	29.33	0
4/23/2019 6:30	7.69	185.1	7.767	10.19	29.33	0
4/23/2019 6:45	9.39	187.3	7.217	10.24	29.33	0
4/23/2019 7:00	8.39	204.5	10.48	10.41	29.36	0
4/23/2019 7:15	8.86	214.7	9.45	10.57	29.36	0
4/23/2019 7:30	9.86	202.4	10.85	10.75	29.36	0
4/23/2019 7:45	9.84	215.8	8.28	10.82	29.36	0
4/23/2019 8:00	10.34	216.8	11.77	10.93	29.36	0
4/23/2019 8:15	9.61	219.4	7.764	11.07	29.36	0
4/23/2019 8:30	8.64	214	9.16	11.18	29.36	0
4/23/2019 8:45	9.01	218.7	10.26	11.39	29.36	0
4/23/2019 9:00	5.812	230.7	9.44	11.37	29.35	0
4/23/2019 9:15	5.208	225.7	9.09	11.19	29.35	0
4/23/2019 9:30	8.37	212.1	10.29	11.7	29.35	0
4/23/2019 9:45	8.79	208	8.75	11.94	29.35	0
4/23/2019 10:00	10.38	219.4	10.33	11.67	29.37	0.01
4/23/2019 10:15	8.01	228.9	11.49	11.14	29.37	0
4/23/2019 10:30	4.732	215.4	12.59	11.29	29.37	0
4/23/2019 10:45	4.526	209	13.05	11.36	29.37	0

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4/23/2019 11:00	2.914	223.2	18.3	11.54	29.37	0
4/23/2019 11:15	2.335	265.4	27.01	11.78	29.37	0
4/23/2019 11:30	3.892	260.9	25.17	11.69	29.37	0
4/23/2019 11:45	2.328	237.3	36.81	11.97	29.37	0
4/23/2019 12:00	3.162	211.9	18.36	11.94	29.35	0
4/23/2019 12:15	5.942	217.8	17.4	12.37	29.35	0
4/23/2019 12:30	8.93	226.4	16.83	12.66	29.35	0
4/23/2019 12:45	6.818	230	14.16	12.88	29.35	0
4/23/2019 13:00	5.727	219.5	14.73	12.91	29.37	0
4/23/2019 13:15	5.344	228.2	22.8	13	29.37	0
4/23/2019 13:30	8.41	224.1	17.19	13.22	29.37	0
4/23/2019 13:45	8.75	230.3	18.74	13.49	29.37	0
4/23/2019 14:00	11.63	237.6	12.93	13.63	29.36	0
4/23/2019 14:15	11.65	244.4	16.64	13.65	29.36	0
4/23/2019 14:30	11.8	249.8	10.58	13.47	29.36	0
4/23/2019 14:45	10.88	251.7	9.28	13.42	29.36	0
4/23/2019 15:00	11.46	242.5	9.14	13.46	29.35	0
4/23/2019 15:15	10.93	242.9	12.05	13.65	29.35	0
4/23/2019 15:30	9.89	257.3	13.83	13.71	29.35	0
4/23/2019 15:45	10.85	242.4	9.77	13.85	29.35	0
4/23/2019 16:00	12.2	242.5	8.17	13.91	29.36	0
4/23/2019 16:15	11.4	242.5	9.37	13.54	29.36	0
4/23/2019 16:30	12.65	247	9.55	13.78	29.36	0
4/23/2019 16:45	7.689	270.7	23.61	13.55	29.36	0
4/23/2019 17:00	6.643	279.6	14.31	13.27	29.37	0
4/23/2019 17:15	8.41	266	9.91	13.1	29.37	0
4/23/2019 17:30	3.813	268.9	39.03	12.96	29.37	0
4/23/2019 17:45	3.086	13.67	61.76	12.08	29.37	0
4/23/2019 18:00	5.669	36.74	9.83	11.27	29.36	0
4/23/2019 18:15	7.078	26.97	10.98	10.69	29.36	0
4/23/2019 18:30	7.549	28.22	9.71	10.31	29.36	0
4/23/2019 18:45	9.46	29.94	10.94	10.04	29.36	0
4/23/2019 19:00	10.72	22.08	10.94	9.78	29.36	0
4/23/2019 19:15	11.96	13.49	11.46	9.61	29.36	0
4/23/2019 19:30	12.4	14.51	14.85	9.35	29.36	0
4/23/2019 19:45	11.09	21.36	11.6	8.97	29.36	0
4/23/2019 20:00	11.86	17.13	10.5	8.84	29.38	0
4/23/2019 20:15	10.37	12.25	11.53	8.7	29.38	0
4/23/2019 20:30	11.1	10.12	13.03	8.62	29.38	0
4/23/2019 20:45	10.05	6.973	16.73	8.61	29.38	0
4/23/2019 21:00	10.95	15.54	11.92	8.52	29.4	0
4/23/2019 21:15	8.92	12.61	15.56	8.55	29.4	0
4/23/2019 21:30	8.96	13.99	11.49	8.52	29.4	0
4/23/2019 21:45	7.598	7.75	15.97	8.49	29.4	0
4/23/2019 22:00	7.53	9.01	15.06	8.47	29.41	0
4/23/2019 22:15	7.954	10.02	15.78	8.44	29.41	0
4/23/2019 22:30	10.65	9.94	14.73	8.38	29.41	0

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4/23/2019 22:45	7.768	351.4	18.65	8.35	29.41	0
4/23/2019 23:00	6.72	19.03	20.03	8.21	29.4	0
4/23/2019 23:15	7.908	12.7	20.96	8.03	29.4	0
4/23/2019 23:30	6.04	25.85	18.5	7.878	29.4	0
4/23/2019 23:45	7.253	27.15	16.32	7.788	29.4	0
4/24/2019 0:00	9.43	23.92	12.45	7.711	29.41	0
4/24/2019 0:15	7.49	16.47	16.01	7.61	29.41	0
4/24/2019 0:30	7.746	27.83	15.9	7.479	29.41	0
4/24/2019 0:45	6.756	29.72	17.91	7.304	29.41	0
4/24/2019 1:00	6.821	42.57	19.69	7.141	29.45	0
4/24/2019 1:15	5.944	26.79	14.95	7.017	29.45	0
4/24/2019 1:30	4.555	17.12	21.18	6.964	29.45	0
4/24/2019 1:45	3.158	58.35	31.87	7.016	29.45	0
4/24/2019 2:00	2.128	49	38.15	7.089	29.44	0
4/24/2019 2:15	5.152	32.2	27.45	7.144	29.44	0
4/24/2019 2:30	5.299	56.77	22.87	7.085	29.44	0
4/24/2019 2:45	9.09	50	13.78	7.093	29.44	0
4/24/2019 3:00	6.428	37.48	16.67	7.022	29.45	0
4/24/2019 3:15	6.007	21.89	24.95	7.094	29.45	0
4/24/2019 3:30	3.281	21.38	21.09	7.081	29.45	0
4/24/2019 3:45	6.055	29.6	20.98	7.067	29.45	0
4/24/2019 4:00	5.94	11.84	18.34	7.069	29.48	0
4/24/2019 4:15	4.487	32.74	21.66	7.106	29.48	0
4/24/2019 4:30	4.659	8.93	25.16	7.059	29.48	0
4/24/2019 4:45	4.877	34.65	14.77	6.959	29.48	0
4/24/2019 5:00	4.545	23.2	11.91	6.777	29.46	0
4/24/2019 5:15	4.821	46.6	29.02	6.901	29.46	0
4/24/2019 5:30	3.614	357.5	12.17	6.949	29.46	0
4/24/2019 5:45	3.688	32.59	21.31	6.921	29.46	0
4/24/2019 6:00	3.179	46.08	23.33	7.167	29.5	0
4/24/2019 6:15	2.637	18.73	20.47	7.068	29.5	0
4/24/2019 6:30	2.956	27.72	14.4	7.071	29.5	0
4/24/2019 6:45	0.867	51.69	42.74	7.225	29.5	0
4/24/2019 7:00	2.391	36.94	12.7	7.296	29.5	0
4/24/2019 7:15	5.053	23.81	15.76	7.376	29.5	0
4/24/2019 7:30	5.453	25.23	18.45	7.465	29.5	0
4/24/2019 7:45	5.988	26.65	15.72	7.463	29.5	0
4/24/2019 8:00	6.6	8.37	16.07	7.572	29.52	0
4/24/2019 8:15	5.018	9.85	16.48	7.638	29.52	0
4/24/2019 8:30	5.235	18.19	15.21	7.605	29.52	0
4/24/2019 8:45	4.428	36.06	10.35	7.799	29.52	0
4/24/2019 9:00	5.522	39.88	14.99	8.07	29.53	0
4/24/2019 9:15	4.625	48.17	23.98	8.48	29.53	0
4/24/2019 9:30	7.129	33.03	15.92	8.91	29.53	0
4/24/2019 9:45	5.364	28.61	19.14	8.93	29.53	0
4/24/2019 10:00	5.409	31.22	17.14	9.49	29.52	0
4/24/2019 10:15	6.062	26.63	21	9.93	29.52	0

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4/24/2019 10:30	8.54	37.41	15.53	9.91	29.52	0
4/24/2019 10:45	6.338	30.56	16.46	10.35	29.52	0
4/24/2019 11:00	7.498	50.42	16.06	10.35	29.53	0
4/24/2019 11:15	8.29	35.1	25.53	11.25	29.53	0
4/24/2019 11:30	8.84	25.5	18.54	11.57	29.53	0
4/24/2019 11:45	6.902	30.34	31.87	11.84	29.53	0
4/24/2019 12:00	6.655	327.8	26.71	11.96	29.52	0
4/24/2019 12:15	6.209	21.71	26.41	12.48	29.52	0
4/24/2019 12:30	8.07	20.04	27.96	12.32	29.52	0
4/24/2019 12:45	7.903	27.85	25.75	12.44	29.52	0
4/24/2019 13:00	10.09	11.5	32.23	13.27	29.49	0
4/24/2019 13:15	8.28	28.94	21.67	12.99	29.49	0
4/24/2019 13:30	6.959	16.29	19.8	12.89	29.49	0
4/24/2019 13:45	6.295	15.24	29.43	13.58	29.49	0
4/24/2019 14:00	5.513	342.2	41.38	14.28	29.5	0
4/24/2019 14:15	6.963	11.15	37.24	14.05	29.5	0
4/24/2019 14:30	8.72	342.5	46.01	14.7	29.5	0
4/24/2019 14:45	7.426	10.24	47.27	14.44	29.5	0
4/24/2019 15:00	9.95	336.3	18.24	14.73	29.48	0
4/24/2019 15:15	10.06	317.7	13.53	14.69	29.48	0
4/24/2019 15:30	9.63	323.6	19.61	14.71	29.48	0
4/24/2019 15:45	9.78	324.5	16.13	14.84	29.48	0
4/24/2019 16:00	6.716	7.041	29.91	14.8	29.47	0
4/24/2019 16:15	8.96	332.5	18.43	14.84	29.47	0
4/24/2019 16:30	7.873	319.6	13.69	14.75	29.47	0
4/24/2019 16:45	9.99	308	11.82	14.55	29.47	0
4/24/2019 17:00	11.27	309.5	10.78	14.36	29.46	0
4/24/2019 17:15	10.06	312.4	9.97	14.31	29.46	0
4/24/2019 17:30	11.64	304.5	10.06	14.03	29.46	0
4/24/2019 17:45	10.71	305.6	13.69	13.76	29.46	0
4/24/2019 18:00	9.07	338.2	14.32	13.58	29.45	0
4/24/2019 18:15	9.6	343.9	14.13	13.19	29.45	0
4/24/2019 18:30	9.95	343.3	12.04	12.76	29.45	0
4/24/2019 18:45	8.7	351.3	16.24	12.18	29.45	0
4/24/2019 19:00	7.624	353.7	14.87	11.52	29.46	0
4/24/2019 19:15	8.24	346.9	13.99	11.09	29.46	0
4/24/2019 19:30	7.459	336.4	8.55	10.68	29.46	0
4/24/2019 19:45	7.469	326.6	5.559	10.43	29.46	0
4/24/2019 20:00	5.342	329.8	14.46	10.32	29.46	0
4/24/2019 20:15	3.392	356	28.25	10.36	29.46	0
4/24/2019 20:30	3.175	14.73	18.04	10.03	29.46	0
4/24/2019 20:45	4.979	359.5	17.97	9.9	29.46	0
4/24/2019 21:00	5.805	3.548	19.11	9.74	29.46	0
4/24/2019 21:15	7.035	15.6	22.09	9.63	29.46	0
4/24/2019 21:30	6.046	28.71	14.77	9.23	29.46	0
4/24/2019 21:45	7.259	18.94	15.67	9.39	29.46	0
4/24/2019 22:00	4.977	37	15.09	9.09	29.46	0

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4/24/2019 22:15	7.369	24.04	16.58	8.94	29.46	0
4/24/2019 22:30	7.371	18.53	14.83	8.85	29.46	0
4/24/2019 22:45	6.651	21.22	12.13	8.84	29.46	0
4/24/2019 23:00	4.805	37.77	20.27	8.34	29.42	0
4/24/2019 23:15	5.961	38.39	14.22	7.715	29.42	0
4/24/2019 23:30	7.653	27.52	7.467	7.666	29.42	0
4/24/2019 23:45	8.47	27.82	5.301	7.164	29.42	0
4/25/2019 0:00	8.37	27.17	4.144	6.757	29.43	0
4/25/2019 0:15	6.949	23.89	8.77	6.877	29.43	0
4/25/2019 0:30	3.941	18.34	11.8	6.808	29.43	0
4/25/2019 0:45	4.977	22.34	11.72	6.381	29.43	0
4/25/2019 1:00	4.646	36.9	9.37	5.953	29.41	0
4/25/2019 1:15	3.562	36.77	8.12	6.08	29.41	0
4/25/2019 1:30	3.087	36.84	10.27	5.893	29.41	0
4/25/2019 1:45	3.3	35.47	6.917	5.657	29.41	0
4/25/2019 2:00	4.388	41.53	10.99	5.178	29.4	0
4/25/2019 2:15	4.713	48.93	9.22	4.998	29.4	0
4/25/2019 2:30	4.37	61.17	15.1	5.116	29.4	0
4/25/2019 2:45	4.479	44.66	17.39	5.227	29.4	0
4/25/2019 3:00	4.151	42.31	13.43	5.176	29.39	0
4/25/2019 3:15	4.285	45.31	18.03	5.013	29.39	0
4/25/2019 3:30	3.96	20.63	5.982	4.584	29.39	0
4/25/2019 3:45	3.428	28.74	3.51	4.084	29.39	0
4/25/2019 4:00	3.271	35.53	4.76	3.427	29.38	0
4/25/2019 4:15	4.237	24.66	7.301	3.741	29.38	0
4/25/2019 4:30	4.786	29.83	6.823	3.044	29.38	0
4/25/2019 4:45	3.566	38.5	6.482	3.148	29.38	0
4/25/2019 5:00	3.619	35.17	10.15	3.32	29.39	0
4/25/2019 5:15	4.876	26.63	12.89	3.366	29.39	0
4/25/2019 5:30	5.486	33.51	17.82	3.036	29.39	0
4/25/2019 5:45	4.822	42.99	12.22	2.979	29.39	0
4/25/2019 6:00	5.296	20.65	8.74	3.367	29.38	0
4/25/2019 6:15	5.331	17.85	8.51	3.735	29.38	0
4/25/2019 6:30	3.396	36.18	15.9	4.05	29.38	0
4/25/2019 6:45	3.362	30.18	14.6	4.012	29.38	0
4/25/2019 7:00	3.662	17.27	14.15	4.628	29.39	0
4/25/2019 7:15	2.727	36.1	11.11	4.729	29.39	0
4/25/2019 7:30	2.762	45.14	10.02	5.062	29.39	0
4/25/2019 7:45	4.656	28.16	9.73	5.168	29.39	0
4/25/2019 8:00	3.954	37.97	15.76	5.733	29.37	0
4/25/2019 8:15	4.539	63.09	27.13	6.252	29.37	0
4/25/2019 8:30	5.054	28.25	13	6.548	29.37	0
4/25/2019 8:45	1.891	16.15	30.68	7.59	29.37	0
4/25/2019 9:00	2.646	61.82	21.69	8.27	29.36	0
4/25/2019 9:15	1.791	53.85	20.23	9.29	29.36	0
4/25/2019 9:30	5.343	11.81	15.69	9.85	29.36	0
4/25/2019 9:45	8.67	17.14	13.39	10.26	29.36	0

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4/25/2019 10:00	8.83	9.58	15.28	10.86	29.33	0
4/25/2019 10:15	9.11	16.18	15.03	11.26	29.33	0
4/25/2019 10:30	10.83	29.28	9.3	11.21	29.33	0
4/25/2019 10:45	8.87	26.82	9.58	11.46	29.33	0
4/25/2019 11:00	8.34	24.62	8.9	11.92	29.33	0
4/25/2019 11:15	7.871	34.19	12.97	12.37	29.33	0
4/25/2019 11:30	9.17	34.01	11.3	12.63	29.33	0
4/25/2019 11:45	9.57	30.49	12.09	12.77	29.33	0
4/25/2019 12:00	10.19	29.26	8.11	13.01	29.29	0
4/25/2019 12:15	9.65	30.71	12.88	13.37	29.29	0
4/25/2019 12:30	10.64	28.69	10.75	13.58	29.29	0
4/25/2019 12:45	8.41	18.85	16.06	14.07	29.29	0
4/25/2019 13:00	8.76	29.1	12.14	14.59	29.29	0
4/25/2019 13:15	8.83	25.78	17.09	14.67	29.29	0
4/25/2019 13:30	8.7	24.22	11.77	14.93	29.29	0
4/25/2019 13:45	7.283	24.05	14.41	15.25	29.29	0
4/25/2019 14:00	7.841	26.9	10.97	15.57	29.28	0
4/25/2019 14:15	7.019	17.89	23.86	15.79	29.28	0
4/25/2019 14:30	8.2	17.11	17.98	15.83	29.28	0
4/25/2019 14:45	9.31	22.94	14.91	15.8	29.28	0
4/25/2019 15:00	9.16	16.75	19.99	15.82	29.25	0
4/25/2019 15:15	8.99	355.6	15.06	15.79	29.25	0
4/25/2019 15:30	7.799	1.898	16.9	15.7	29.25	0
4/25/2019 15:45	7.087	352.6	20.51	15.72	29.25	0
4/25/2019 16:00	7.147	356.5	17.76	15.51	29.25	0
4/25/2019 16:15	8.85	352.5	14.13	15.25	29.25	0
4/25/2019 16:30	6.13	1.618	14.83	15.15	29.25	0
4/25/2019 16:45	6.467	358.1	17.27	15.09	29.25	0
4/25/2019 17:00	5.824	351.4	19.9	15.04	29.24	0
4/25/2019 17:15	5.053	358.2	18.68	15.12	29.24	0
4/25/2019 17:30	5.407	320.6	28.46	15.16	29.24	0
4/25/2019 17:45	8.91	281.6	12.53	14.16	29.24	0
4/25/2019 18:00	8.44	314	14.43	13.47	29.21	0
4/25/2019 18:15	4.213	323	7.51	13.34	29.21	0
4/25/2019 18:30	3.588	296.3	29.84	13.15	29.21	0
4/25/2019 18:45	5.507	297.7	9.68	12.76	29.21	0
4/25/2019 19:00	4.767	309.2	6.488	12.49	29.21	0
4/25/2019 19:15	2.891	338.2	17.15	12.37	29.21	0
4/25/2019 19:30	4.051	295.6	6.868	12.07	29.21	0
4/25/2019 19:45	5.437	295.5	10.25	11.63	29.21	0
4/25/2019 20:00	4.238	339.5	24.12	11.22	29.24	0
4/25/2019 20:15	7.966	26.71	8.65	11.28	29.24	0
4/25/2019 20:30	9.03	26.4	10.83	11.12	29.24	0
4/25/2019 20:45	8.82	23.07	10.09	10.98	29.24	0
4/25/2019 21:00	8.45	32.4	13.26	11	29.23	0
4/25/2019 21:15	8.98	22.09	6.941	11.13	29.23	0
4/25/2019 21:30	7.229	21.14	6.368	10.92	29.23	0

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4/25/2019 21:45	3.714	11.83	20.92	11.16	29.23	0
4/25/2019 22:00	6.896	10.19	13.34	10.82	29.25	0
4/25/2019 22:15	9.58	12.07	6.564	10.39	29.25	0
4/25/2019 22:30	10.12	17.16	3.911	10.42	29.25	0
4/25/2019 22:45	10.9	10.09	7.355	10.74	29.25	0
4/25/2019 23:00	11.28	7.099	10.85	10.65	29.24	0
4/25/2019 23:15	10.71	17.36	12.97	10.5	29.24	0
4/25/2019 23:30	10.69	15.5	9.1	10.46	29.24	0
4/25/2019 23:45	9.23	19.88	13.46	10.36	29.24	0
4/26/2019 0:00	5.727	12.54	16.12	10.3	29.25	0
4/26/2019 0:15	5.475	8.67	20.65	10.1	29.25	0
4/26/2019 0:30	6.037	16.8	8.12	9.35	29.25	0
4/26/2019 0:45	4.632	34.17	15.46	9.25	29.25	0
4/26/2019 1:00	4.579	20.19	13.01	9.47	29.24	0
4/26/2019 1:15	2.548	72.25	19.84	9.42	29.24	0
4/26/2019 1:30	2.659	30.97	23.5	9.57	29.24	0
4/26/2019 1:45	3.7	26.13	15.04	9.67	29.24	0
4/26/2019 2:00	5.64	75.45	25.74	8.9	29.24	0
4/26/2019 2:15	3.007	66.79	6.547	8.28	29.24	0
4/26/2019 2:30	5.848	249.7	14.65	8.88	29.24	0
4/26/2019 2:45	5.355	280.5	10.83	8.64	29.24	0
4/26/2019 3:00	1.706	316.4	21.74	9.2	29.25	0
4/26/2019 3:15	2.384	8.05	11.62	8.69	29.25	0
4/26/2019 3:30	0.015	21.97	0.006	8.71	29.25	0
4/26/2019 3:45	1.998	348.2	13.14	8.68	29.25	0
4/26/2019 4:00	1.766	88.9	32.04	8.26	29.28	0
4/26/2019 4:15	2.454	85.3	10.8	7.627	29.28	0
4/26/2019 4:30	2.361	72.19	10.45	7.609	29.28	0
4/26/2019 4:45	1.957	81.8	41.69	7.699	29.28	0
4/26/2019 5:00	1.713	279	62.06	7.858	29.27	0
4/26/2019 5:15	6.377	212.4	8.91	7.346	29.27	0
4/26/2019 5:30	5.396	185.7	10.4	7.117	29.27	0
4/26/2019 5:45	2.878	111.5	23.11	6.497	29.27	0
4/26/2019 6:00	3.979	100.1	7.723	6.149	29.31	0
4/26/2019 6:15	4.112	104.5	7.379	6.892	29.31	0
4/26/2019 6:30	4.583	116.3	10.77	7.887	29.31	0
4/26/2019 6:45	5.556	137.1	9.8	8.19	29.31	0
4/26/2019 7:00	5.25	147.6	9.15	8.39	29.31	0
4/26/2019 7:15	4.941	172.9	18.71	8.41	29.31	0
4/26/2019 7:30	3.944	181.7	19.04	8.56	29.31	0
4/26/2019 7:45	4.824	168.2	25.81	8.62	29.31	0
4/26/2019 8:00	4.244	159.3	25.92	9.41	29.34	0
4/26/2019 8:15	5.987	146.7	12.25	8.98	29.34	0
4/26/2019 8:30	6.324	163.1	16.47	9.27	29.34	0
4/26/2019 8:45	5.762	148.2	13.65	9.91	29.34	0
4/26/2019 9:00	5.345	146.4	20.44	10.31	29.36	0
4/26/2019 9:15	5.965	156.4	22.48	10.28	29.36	0



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4/26/2019 9:30	5.558	154.8	21.86	10.02	29.36	0
4/26/2019 9:45	4.254	179	20.76	10.3	29.36	0
4/26/2019 10:00	5.48	193.2	14.02	10.47	29.38	0
4/26/2019 10:15	4.449	211.6	29.85	10.52	29.38	0
4/26/2019 10:30	3.2	211.7	32.25	10.98	29.38	0
4/26/2019 10:45	4.84	202.6	35.25	11.29	29.38	0
4/26/2019 11:00	6.507	207.2	24.29	11.6	29.36	0
4/26/2019 11:15	5.43	202.5	24.35	11.88	29.36	0
4/26/2019 11:30	5.099	247.7	55.23	12.18	29.36	0
4/26/2019 11:45	4.605	218.2	37.09	12.69	29.36	0
4/26/2019 12:00	4.655	235.8	59.29	12.77	29.38	0
4/26/2019 12:15	4.331	202.2	54.18	13.36	29.38	0
4/26/2019 12:30	6.169	179.8	18.74	13.52	29.38	0
4/26/2019 12:45	6.452	206.8	31.69	13.98	29.38	0
4/26/2019 13:00	5.669	207.6	56.88	14.3	29.37	0
4/26/2019 13:15	6.1	205.5	37.19	14.46	29.37	0
4/26/2019 13:30	8.3	193.8	20.03	14.49	29.37	0
4/26/2019 13:45	5.267	180.1	27.22	14.65	29.37	0
4/26/2019 14:00	10.94	223.2	18.48	15.07	29.37	0
4/26/2019 14:15	10.55	220.5	22.43	15.12	29.37	0
4/26/2019 14:30	10.19	229.3	25.85	15.23	29.37	0
4/26/2019 14:45	10.22	244.7	25.06	15.4	29.37	0
4/26/2019 15:00	11.47	277	16.88	15.16	29.37	0
4/26/2019 15:15	11.56	278.9	16.01	15.2	29.37	0
4/26/2019 15:30	7.549	238.7	19.06	15.42	29.37	0
4/26/2019 15:45	7.732	238.2	22.16	15.48	29.37	0
4/26/2019 16:00	7.557	239.7	23.02	15.73	29.35	0
4/26/2019 16:15	7.993	226.8	19.84	15.47	29.35	0
4/26/2019 16:30	10.1	250.2	12.97	15.19	29.35	0
4/26/2019 16:45	9.87	250.3	13.09	14.92	29.35	0
4/26/2019 17:00	12.45	246.6	10.06	14.67	29.35	0
4/26/2019 17:15	9.87	240.5	10.19	14.59	29.35	0
4/26/2019 17:30	11.11	246.6	13.15	14.22	29.35	0
4/26/2019 17:45	10.79	242	9.14	13.97	29.35	0
4/26/2019 18:00	11.66	242	8.35	13.6	29.32	0
4/26/2019 18:15	12.28	251.5	9.14	12.94	29.32	0
4/26/2019 18:30	10.18	256.4	10.04	12.48	29.32	0
4/26/2019 18:45	10.52	253.6	10.19	12.05	29.32	0
4/26/2019 19:00	8.16	247.2	11.44	11.71	29.34	0
4/26/2019 19:15	5.342	245.8	19.18	11.33	29.34	0
4/26/2019 19:30	4.42	250	68.35	10.9	29.34	0
4/26/2019 19:45	5.637	355	40.2	10.07	29.34	0
4/26/2019 20:00	7.309	22.75	20.45	9.54	29.38	0
4/26/2019 20:15	6.138	359.8	18.48	9.6	29.38	0
4/26/2019 20:30	4.753	19.73	18.72	9.53	29.38	0
4/26/2019 20:45	6.146	357.7	23.23	9.47	29.38	0
4/26/2019 21:00	6.019	23.85	18.5	9.27	29.39	0

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4/26/2019 21:15	2.808	14.21	50.44	9.07	29.39	0
4/26/2019 21:30	1.983	341.4	62.4	9.08	29.39	0
4/26/2019 21:45	4.459	189.8	57	9.37	29.39	0
4/26/2019 22:00	7.673	158.6	28.05	9.11	29.38	0
4/26/2019 22:15	9.64	194.5	8.66	9.08	29.38	0
4/26/2019 22:30	11.48	203	9.31	8.78	29.38	0
4/26/2019 22:45	9.45	195.1	11.52	8.6	29.38	0
4/26/2019 23:00	13.03	189	9.45	8.29	29.38	0
4/26/2019 23:15	10.59	186.4	11.67	8.12	29.38	0
4/26/2019 23:30	10.1	184.6	9.59	7.921	29.38	0
4/26/2019 23:45	11.04	185.6	13.2	7.79	29.38	0
4/27/2019 0:00	9.36	184.7	9.7	7.701	29.38	0
4/27/2019 0:15	9.32	188.4	9.86	7.618	29.38	0
4/27/2019 0:30	10.09	173.5	10.12	7.471	29.38	0
4/27/2019 0:45	9.14	170.2	11.06	7.416	29.38	0
4/27/2019 1:00	8.68	176.7	10.19	7.386	29.34	0
4/27/2019 1:15	9.92	176.1	9.78	7.367	29.34	0
4/27/2019 1:30	8.74	181.2	10.23	7.348	29.34	0
4/27/2019 1:45	10.06	182.2	9	7.249	29.34	0
4/27/2019 2:00	9.7	179.7	12.27	7.162	29.34	0
4/27/2019 2:15	7.215	192	11.94	6.946	29.34	0
4/27/2019 2:30	6.477	183.4	11.89	6.723	29.34	0
4/27/2019 2:45	5.952	192	11.37	6.616	29.34	0
4/27/2019 3:00	5.587	187.3	13.38	6.463	29.34	0
4/27/2019 3:15	5.958	176.9	9.61	6.287	29.34	0
4/27/2019 3:30	4.039	157.3	12.08	6.042	29.34	0
4/27/2019 3:45	4.366	157.1	14.84	6.196	29.34	0
4/27/2019 4:00	6.394	181.5	12.52	6.394	29.33	0
4/27/2019 4:15	8.61	184.5	11.5	6.526	29.33	0
4/27/2019 4:30	10.13	191.6	9.99	6.539	29.33	0
4/27/2019 4:45	8.9	193.5	11.02	6.51	29.33	0
4/27/2019 5:00	6.275	202.8	12.23	6.512	29.3	0
4/27/2019 5:15	5.781	194.7	11.9	6.476	29.3	0
4/27/2019 5:30	7.516	199.8	12.2	6.389	29.3	0
4/27/2019 5:45	5.857	224.3	17	6.297	29.3	0.01
4/27/2019 6:00	6.322	230.8	16.7	6.219	29.32	0
4/27/2019 6:15	7.679	212	9.53	5.935	29.32	0.04
4/27/2019 6:30	8.05	205	13.72	5.863	29.32	0.02
4/27/2019 6:45	7.412	227.8	12.46	5.858	29.32	0.01
4/27/2019 7:00	6.598	240.6	27.59	5.491	29.3	0.01
4/27/2019 7:15	4.072	330.3	41.84	5.058	29.3	0.05
4/27/2019 7:30	3.955	64.02	48.55	4.735	29.3	0.02
4/27/2019 7:45	5.724	87.4	39.65	4.22	29.3	0.02
4/27/2019 8:00	5.253	130.7	11.45	4.748	29.3	0
4/27/2019 8:15	6.166	138.8	13.95	5.037	29.3	0.01
4/27/2019 8:30	6.584	154.5	8.88	5.226	29.3	0
4/27/2019 8:45	5.572	148.7	15.22	5.454	29.3	0

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4/27/2019 9:00	4.497	142.6	25.72	6.259	29.32	0
4/27/2019 9:15	4.591	148.2	25.44	6.614	29.32	0
4/27/2019 9:30	4.736	124	16.73	6.346	29.32	0
4/27/2019 9:45	4.547	179.6	26.57	6.721	29.32	0
4/27/2019 10:00	4.054	200.4	31.54	7.477	29.31	0
4/27/2019 10:15	6.616	178.8	12.91	7.143	29.31	0
4/27/2019 10:30	5.079	141.7	35.25	7.992	29.31	0
4/27/2019 10:45	5.612	108.7	24.2	7.698	29.31	0
4/27/2019 11:00	6.439	120.9	13.52	8.1	29.31	0
4/27/2019 11:15	4.25	122.9	21.25	8.06	29.31	0
4/27/2019 11:30	4.196	136.2	23.5	7.998	29.31	0
4/27/2019 11:45	6.919	199	25.36	7.76	29.31	0
4/27/2019 12:00	8.91	253.3	19.19	7.606	29.3	0
4/27/2019 12:15	9.45	308.7	25.19	8.05	29.3	0
4/27/2019 12:30	10.19	321.5	9.11	8.26	29.3	0
4/27/2019 12:45	6.892	309.5	12.71	8.59	29.3	0
4/27/2019 13:00	7.416	315	27.19	8.39	29.29	0
4/27/2019 13:15	5.98	339.4	33.91	8.75	29.29	0
4/27/2019 13:30	2.632	325.7	59.14	9.68	29.29	0
4/27/2019 13:45	8.06	316.1	32.81	10.35	29.29	0
4/27/2019 14:00	6.8	356.9	21.93	9.82	29.29	0
4/27/2019 14:15	5.148	9.68	34.32	9.78	29.29	0
4/27/2019 14:30	7.275	324.7	16.15	10.2	29.29	0
4/27/2019 14:45	12.1	268	14.04	10.28	29.29	0
4/27/2019 15:00	12.62	297.9	21.33	10.29	29.29	0
4/27/2019 15:15	21.49	345.9	15.28	8.57	29.29	0
4/27/2019 15:30	18.34	332.8	12.75	8.07	29.29	0
4/27/2019 15:45	16.01	316.1	14.55	7.599	29.29	0
4/27/2019 16:00	12.17	317.5	8.4	7.561	29.31	0
4/27/2019 16:15	9.66	317.9	11.46	7.839	29.31	0
4/27/2019 16:30	9.32	307.8	10.8	8.4	29.31	0
4/27/2019 16:45	8.09	312	10.11	8.68	29.31	0
4/27/2019 17:00	10.74	322.9	12.62	9.49	29.31	0
4/27/2019 17:15	7.745	330.8	28.56	9.69	29.31	0
4/27/2019 17:30	8.81	1.057	21.06	9.73	29.31	0
4/27/2019 17:45	4.828	332.9	34.16	10.24	29.31	0
4/27/2019 18:00	5.543	341.8	40.67	10.25	29.3	0
4/27/2019 18:15	8.33	12.85	17.85	9.59	29.3	0
4/27/2019 18:30	10.6	339.9	14.78	9.53	29.3	0
4/27/2019 18:45	12.98	324.3	7.818	9.15	29.3	0
4/27/2019 19:00	10.75	329.4	8.24	8.81	29.33	0
4/27/2019 19:15	5.346	346.1	13.52	8.35	29.33	0
4/27/2019 19:30	6.327	346.3	12.89	7.973	29.33	0
4/27/2019 19:45	6.112	353.4	13.81	7.951	29.33	0
4/27/2019 20:00	3.889	16.46	12.12	7.597	29.35	0
4/27/2019 20:15	3.694	88.4	14.18	7.005	29.35	0
4/27/2019 20:30	1.834	81.9	41.94	6.874	29.35	0

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4/27/2019 20:45	4.881	168.9	22.28	6.162	29.35	0
4/27/2019 21:00	7.753	177.5	13.68	5.829	29.39	0
4/27/2019 21:15	7.52	188.1	8.06	5.81	29.39	0
4/27/2019 21:30	4.153	148.1	60.07	5.259	29.39	0
4/27/2019 21:45	0.904	52.49	10.09	3.939	29.39	0
4/27/2019 22:00	3.281	130.4	16.34	4.341	29.4	0
4/27/2019 22:15	3.405	110	35.69	4.65	29.4	0
4/27/2019 22:30	2.554	83	11.4	3.5	29.4	0
4/27/2019 22:45	3.29	94.5	17.45	3.928	29.4	0
4/27/2019 23:00	2.048	109.1	12.05	3.705	29.42	0
4/27/2019 23:15	1.923	102.7	11.07	3.998	29.42	0
4/27/2019 23:30	1.898	99.9	31.52	4.287	29.42	0
4/27/2019 23:45	0.705	27.04	26.6	4.104	29.42	0
4/28/2019 0:00	2.22	19.81	10.99	4.286	29.42	0
4/28/2019 0:15	3.523	41.76	6.615	4.513	29.42	0
4/28/2019 0:30	2.519	60.96	9.45	4.418	29.42	0
4/28/2019 0:45	1.672	52.89	16.47	3.926	29.42	0
4/28/2019 1:00	0.926	85	12.22	3.794	29.41	0
4/28/2019 1:15	2.229	145.2	27.08	4.358	29.41	0
4/28/2019 1:30	1.682	138	17.72	4.385	29.41	0
4/28/2019 1:45	1.647	133.1	14.23	4.165	29.41	0
4/28/2019 2:00	2.551	108.2	6.078	3.531	29.43	0
4/28/2019 2:15	3.388	127.7	6.228	3.362	29.43	0
4/28/2019 2:30	2.257	114.4	10.7	3.623	29.43	0
4/28/2019 2:45	2.121	97.1	2.874	3.562	29.43	0
4/28/2019 3:00	2.251	113.1	7.833	4.132	29.44	0
4/28/2019 3:15	2.26	132.7	5.831	3.901	29.44	0
4/28/2019 3:30	1.477	106	20.4	3.476	29.44	0
4/28/2019 3:45	2.033	128.3	13.7	3.762	29.44	0
4/28/2019 4:00	3.048	157	3.266	3.532	29.43	0
4/28/2019 4:15	3.096	145.1	8.2	3.224	29.43	0
4/28/2019 4:30	3.425	139.1	6.686	3.531	29.43	0
4/28/2019 4:45	2.655	153	10.83	3.317	29.43	0
4/28/2019 5:00	1.843	148.6	18.41	2.956	29.45	0
4/28/2019 5:15	0.876	72.39	4.221	3.029	29.45	0
4/28/2019 5:30	0.155	76.25	0.058	3.283	29.45	0
4/28/2019 5:45	1.197	130.2	24.28	3.512	29.45	0
4/28/2019 6:00	2.555	138.2	8.98	3.635	29.45	0
4/28/2019 6:15	0.868	114.3	63.42	4.149	29.45	0
4/28/2019 6:30	0.419	69.83	0.124	5.263	29.45	0
4/28/2019 6:45	0.651	350.5	11.73	5.863	29.45	0
4/28/2019 7:00	1.432	12.6	12.96	5.564	29.46	0
4/28/2019 7:15	1.409	19.1	12.22	6.057	29.46	0
4/28/2019 7:30	1.113	44.12	8.02	6.796	29.46	0
4/28/2019 7:45	1.465	33.67	26.38	7.059	29.46	0
4/28/2019 8:00	1.412	181	46.02	7.705	29.44	0
4/28/2019 8:15	3.219	216	18.15	7.413	29.44	0

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4/28/2019 8:30	2.702	274	22.59	8.47	29.44	0
4/28/2019 8:45	2.879	307.2	31.04	8.95	29.44	0
4/28/2019 9:00	5.175	308	13.38	9.27	29.47	0
4/28/2019 9:15	5.87	321.5	16.43	9.3	29.47	0
4/28/2019 9:30	4.492	322.3	19.82	9.49	29.47	0
4/28/2019 9:45	3.559	303.5	27.53	9.64	29.47	0
4/28/2019 10:00	5.053	293.7	24.5	10.09	29.45	0
4/28/2019 10:15	4.594	295.8	24.11	10.35	29.45	0
4/28/2019 10:30	5.011	328.5	33.75	10.34	29.45	0
4/28/2019 10:45	4.987	343.5	19.52	10.71	29.45	0
4/28/2019 11:00	3.729	6.201	18.33	10.23	29.43	0
4/28/2019 11:15	6.231	340.8	27.5	11.23	29.43	0
4/28/2019 11:30	3.287	354.5	82.8	11.42	29.43	0
4/28/2019 11:45	5.339	53.01	41.94	11.85	29.43	0
4/28/2019 12:00	6.268	350.6	41.52	12.05	29.42	0
4/28/2019 12:15	5.979	4.481	51.81	12.32	29.42	0
4/28/2019 12:30	5.597	343	49.5	12.41	29.42	0
4/28/2019 12:45	6.81	7.788	56.54	12.26	29.42	0
4/28/2019 13:00	5.498	330.9	50.12	12.49	29.42	0
4/28/2019 13:15	8.54	336.9	25.59	12.76	29.42	0
4/28/2019 13:30	7.606	321.3	30.05	13.35	29.42	0
4/28/2019 13:45	10.41	309.4	15.47	13.58	29.42	0
4/28/2019 14:00	8.36	317.8	27.66	13.57	29.4	0
4/28/2019 14:15	9.47	307.9	13.14	14.07	29.4	0
4/28/2019 14:30	9.46	316.1	19.06	13.85	29.4	0
4/28/2019 14:45	9.13	314.3	18.59	13.97	29.4	0
4/28/2019 15:00	10.73	315.2	21.74	14.06	29.37	0
4/28/2019 15:15	10.01	327.5	28.69	14.03	29.37	0
4/28/2019 15:30	12.75	306.4	23.49	13.81	29.37	0
4/28/2019 15:45	9.13	338.8	20.12	14.23	29.37	0
4/28/2019 16:00	9.63	345.2	26.9	14.04	29.35	0
4/28/2019 16:15	12.05	358.3	19.24	13.83	29.35	0
4/28/2019 16:30	11.8	352.8	19.35	13.68	29.35	0
4/28/2019 16:45	11.68	349.4	23.21	13.53	29.35	0
4/28/2019 17:00	11.39	338.1	20.12	13.6	29.36	0
4/28/2019 17:15	12.82	351.3	18.49	13.62	29.36	0
4/28/2019 17:30	13.9	356.9	16.43	13.34	29.36	0
4/28/2019 17:45	12.31	23.67	11.08	12.83	29.36	0
4/28/2019 18:00	9.21	30.25	10.62	12.47	29.35	0
4/28/2019 18:15	9.82	29.07	11.22	12.32	29.35	0
4/28/2019 18:30	10.17	34.3	10.43	12.11	29.35	0
4/28/2019 18:45	9.56	33.03	10.72	11.79	29.35	0
4/28/2019 19:00	4.806	44.8	14.5	11.57	29.36	0
4/28/2019 19:15	3.288	67.43	13.12	11.46	29.36	0
4/28/2019 19:30	4.139	128.3	45.6	11.02	29.36	0
4/28/2019 19:45	3.537	95.3	16.19	10.88	29.36	0
4/28/2019 20:00	3.034	67.84	12.99	10.7	29.37	0

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4/28/2019 20:15	3.72	56.92	15.95	10.31	29.37	0
4/28/2019 20:30	4.541	70.82	8.54	10.31	29.37	0
4/28/2019 20:45	3.7	72.86	11.84	10.01	29.37	0
4/28/2019 21:00	3.276	12.97	15.36	9.78	29.37	0
4/28/2019 21:15	3.726	10.4	6.02	9.48	29.37	0
4/28/2019 21:30	3.846	25.41	12.05	8.64	29.37	0
4/28/2019 21:45	3.619	40.67	9.44	8.09	29.37	0
4/28/2019 22:00	5.12	51.5	6.37	7.756	29.35	0
4/28/2019 22:15	5.353	53.91	8.55	7.877	29.35	0
4/28/2019 22:30	4.939	49.63	5.782	7.908	29.35	0
4/28/2019 22:45	3.675	76.19	17.92	7.795	29.35	0
4/28/2019 23:00	3.874	49.34	11.87	8.35	29.34	0
4/28/2019 23:15	5.206	30.08	6.902	8.01	29.34	0
4/28/2019 23:30	5.419	21.6	6.584	7.335	29.34	0
4/28/2019 23:45	4.309	18	8.5	7.295	29.34	0
4/29/2019 0:00	3.607	36.68	7.133	7.161	29.34	0
4/29/2019 0:15	5.199	37.3	8.98	6.771	29.34	0
4/29/2019 0:30	6.174	31.97	11.73	6.223	29.34	0
4/29/2019 0:45	7.041	25.54	10.14	5.883	29.34	0
4/29/2019 1:00	5.24	21.83	10.92	5.958	29.35	0
4/29/2019 1:15	4.514	35.2	10.52	5.885	29.35	0
4/29/2019 1:30	5.897	44.56	9.62	5.81	29.35	0
4/29/2019 1:45	6.824	40.86	8.35	6.001	29.35	0
4/29/2019 2:00	5.097	34.66	7.385	5.609	29.33	0
4/29/2019 2:15	3.218	30.52	6.658	5.869	29.33	0
4/29/2019 2:30	2.688	30.04	14.84	6.187	29.33	0
4/29/2019 2:45	4.651	28.1	9.03	5.611	29.33	0
4/29/2019 3:00	2.745	36.11	13.06	5.381	29.33	0
4/29/2019 3:15	2.909	41.74	14.65	4.821	29.33	0
4/29/2019 3:30	4.393	27.6	11.03	4.572	29.33	0
4/29/2019 3:45	4.584	37.03	12.32	4.842	29.33	0
4/29/2019 4:00	5.498	20.22	8.96	5.003	29.33	0
4/29/2019 4:15	5.754	16.31	8.25	4.935	29.33	0
4/29/2019 4:30	5.828	20.7	7.431	4.538	29.33	0
4/29/2019 4:45	6.254	30.89	8.14	3.917	29.33	0
4/29/2019 5:00	6.195	30.69	7.989	3.654	29.33	0
4/29/2019 5:15	5.109	23.24	9.95	3.896	29.33	0
4/29/2019 5:30	5.152	17.42	11.72	4.064	29.33	0
4/29/2019 5:45	5.937	13.69	9.19	4.582	29.33	0
4/29/2019 6:00	3.855	16.07	12.4	4.839	29.34	0
4/29/2019 6:15	1.556	12.67	21.31	5.463	29.34	0
4/29/2019 6:30	3.512	18.95	8.85	6.106	29.34	0
4/29/2019 6:45	3.634	25.89	6.426	6.514	29.34	0
4/29/2019 7:00	4.085	30.56	7.616	6.451	29.32	0
4/29/2019 7:15	4.034	32.24	5.415	6.729	29.32	0
4/29/2019 7:30	2.91	33.68	8.86	7.279	29.32	0
4/29/2019 7:45	2.293	43.25	30.88	8.17	29.32	0

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4/29/2019 8:00	3.025	326.8	27.21	10.08	29.32	0
4/29/2019 8:15	4.05	345.9	26.44	10.51	29.32	0
4/29/2019 8:30	2.917	17.48	31.25	10.54	29.32	0
4/29/2019 8:45	2.119	3.509	46.05	11.26	29.32	0
4/29/2019 9:00	1.334	354.8	20.94	11.98	29.32	0
4/29/2019 9:15	4.206	273.1	20.61	12.23	29.32	0
4/29/2019 9:30	3.761	285.9	49.7	12.17	29.32	0
4/29/2019 9:45	3.906	313.3	36.46	12.83	29.32	0
4/29/2019 10:00	3.409	302.7	43.1	12.93	29.31	0
4/29/2019 10:15	2.785	12.16	37.65	13.34	29.31	0
4/29/2019 10:30	7.732	21.99	18.62	13.34	29.31	0
4/29/2019 10:45	8.89	18.68	26	13.83	29.31	0
4/29/2019 11:00	10.23	11.68	18.44	14.09	29.29	0
4/29/2019 11:15	8.62	28.01	20.21	14.38	29.29	0
4/29/2019 11:30	9.18	29.85	18.18	14.39	29.29	0
4/29/2019 11:45	8.18	20.15	18.27	14.52	29.29	0
4/29/2019 12:00	8.84	33.38	17.86	14.98	29.26	0
4/29/2019 12:15	6.94	8.59	32.66	14.8	29.26	0
4/29/2019 12:30	7.964	337	24.59	14.72	29.26	0
4/29/2019 12:45	14.45	315.5	17.94	14.41	29.26	0
4/29/2019 13:00	13.58	325.7	14.44	14.94	29.24	0
4/29/2019 13:15	15.66	321.5	14.63	15.08	29.24	0
4/29/2019 13:30	12.53	333.2	23.67	15.42	29.24	0
4/29/2019 13:45	11.24	346.3	24.1	15.34	29.24	0
4/29/2019 14:00	11.72	334	18.88	15.67	29.23	0
4/29/2019 14:15	11.43	334.8	18.8	15.81	29.23	0
4/29/2019 14:30	14.12	329.8	15.86	15.67	29.23	0
4/29/2019 14:45	16.97	327.9	11.59	15.46	29.23	0
4/29/2019 15:00	13.01	8.99	44.6	15.15	29.24	0
4/29/2019 15:15	13.01	60.64	19.14	12.76	29.24	0
4/29/2019 15:30	14.24	66.29	12.89	10.78	29.24	0
4/29/2019 15:45	8.61	72.62	16.76	11.1	29.24	0
4/29/2019 16:00	3.845	107.7	53.78	11.91	29.25	0
4/29/2019 16:15	7.37	165.2	13.42	11.26	29.25	0
4/29/2019 16:30	6.09	154.6	9.07	11.21	29.25	0
4/29/2019 16:45	2.663	110.5	33.02	12.54	29.25	0
4/29/2019 17:00	8.64	31.24	15.31	12.86	29.25	0
4/29/2019 17:15	15.97	23.75	10.39	11.98	29.25	0
4/29/2019 17:30	12.71	25.6	13.24	11.47	29.25	0
4/29/2019 17:45	10.64	30.98	12.46	11.36	29.25	0
4/29/2019 18:00	11.02	31.85	8.93	11.4	29.24	0
4/29/2019 18:15	10.07	43.04	12.08	11.49	29.24	0
4/29/2019 18:30	8.17	30.54	14.77	11.66	29.24	0
4/29/2019 18:45	6.904	41.61	14.43	11.64	29.24	0
4/29/2019 19:00	3.32	63.4	31.21	11.35	29.25	0
4/29/2019 19:15	2.655	96.5	29.96	11.07	29.25	0
4/29/2019 19:30	3.065	93.6	40.19	10.89	29.25	0

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4/29/2019 19:45	4.637	120.4	28.74	10.24	29.25	0
4/29/2019 20:00	7.894	140.6	10.47	10.43	29.24	0
4/29/2019 20:15	5.015	114.8	31.29	10.49	29.24	0
4/29/2019 20:30	3.059	129.2	87.7	9.9	29.24	0
4/29/2019 20:45	2.273	331.4	23.45	9.39	29.24	0
4/29/2019 21:00	2.358	26.33	23.13	9.06	29.26	0
4/29/2019 21:15	2.494	83.4	26.44	8.38	29.26	0
4/29/2019 21:30	3.528	130.3	11.63	8.19	29.26	0
4/29/2019 21:45	4.13	132.5	9.67	8.51	29.26	0
4/29/2019 22:00	3.641	128.8	13.29	8.14	29.26	0
4/29/2019 22:15	3.246	125.8	16.98	7.639	29.26	0
4/29/2019 22:30	4.282	162.6	4.794	7.671	29.26	0
4/29/2019 22:45	3.199	144.4	24.92	7.63	29.26	0
4/29/2019 23:00	2.287	122.6	12.08	7.381	29.25	0
4/29/2019 23:15	1.562	115.8	17.37	7.601	29.25	0
4/29/2019 23:30	2.588	140.4	13.31	7.369	29.25	0
4/29/2019 23:45	0.928	32.42	26.07	6.31	29.25	0
4/30/2019 0:00	0	17.9	0	6.726	29.26	0
4/30/2019 0:15	0	0	0	6.806	29.26	0
4/30/2019 0:30	0.634	39.14	8.02	6.25	29.26	0
4/30/2019 0:45	1.351	50.26	0.797	5.455	29.26	0
4/30/2019 1:00	1.863	54.27	1.421	5.513	29.26	0
4/30/2019 1:15	2.027	73.79	18.55	6.019	29.26	0
4/30/2019 1:30	1.055	61.98	7.647	6.428	29.26	0
4/30/2019 1:45	2.042	108.7	19.68	5.664	29.26	0
4/30/2019 2:00	1.222	112.9	22.08	5.756	29.25	0
4/30/2019 2:15	1.194	41.49	1.06	5.704	29.25	0
4/30/2019 2:30	0.755	44.63	5.125	5.414	29.25	0
4/30/2019 2:45	0.781	37.18	11.55	5.429	29.25	0
4/30/2019 3:00	1.265	42.67	11.36	4.924	29.26	0
4/30/2019 3:15	0.559	44.55	7.166	5.325	29.26	0
4/30/2019 3:30	1.727	18.87	10.65	4.736	29.26	0
4/30/2019 3:45	1.105	45.36	1.001	4.493	29.26	0
4/30/2019 4:00	2.884	47.12	7.065	4.636	29.29	0
4/30/2019 4:15	3.403	70.42	4.701	4.141	29.29	0
4/30/2019 4:30	2.115	84.2	6.633	4.367	29.29	0
4/30/2019 4:45	2.906	116.6	5.208	4.555	29.29	0
4/30/2019 5:00	2.39	143.6	11.45	4.444	29.29	0
4/30/2019 5:15	3.562	109.9	12.33	4.854	29.29	0
4/30/2019 5:30	2.861	70.37	7.313	4.048	29.29	0
4/30/2019 5:45	1.958	35.87	9.23	5.174	29.29	0
4/30/2019 6:00	1.485	41.66	10.89	5.923	29.29	0
4/30/2019 6:15	0.695	7.523	8.57	6.699	29.29	0
4/30/2019 6:30	1.567	353.4	23.33	6.158	29.29	0
4/30/2019 6:45	2.517	313.1	21.34	6.013	29.29	0
4/30/2019 7:00	2.291	298.3	15.32	6.342	29.31	0
4/30/2019 7:15	2.68	285.1	16.69	6.405	29.31	0



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4/30/2019 7:30	1.868	299.2	20.42	7.127	29.31	0
4/30/2019 7:45	3.327	282.9	13.27	7.591	29.31	0
4/30/2019 8:00	1.831	300.1	20.99	8.23	29.32	0
4/30/2019 8:15	2.084	275.4	21.05	8.79	29.32	0
4/30/2019 8:30	1.334	289.9	41.19	9.45	29.32	0
4/30/2019 8:45	1.884	96.8	72.33	10.45	29.32	0
4/30/2019 9:00	3.226	26.01	27.21	10.72	29.31	0
4/30/2019 9:15	1.862	14.92	39.45	11.51	29.31	0
4/30/2019 9:30	4.574	310.5	25.11	11.86	29.31	0
4/30/2019 9:45	4.273	6.596	23.54	12.38	29.31	0
4/30/2019 10:00	4.522	353.4	31.88	12.94	29.3	0
4/30/2019 10:15	4.497	7.808	37.61	13.56	29.3	0
4/30/2019 10:30	5.907	335.6	26.12	13.79	29.3	0
4/30/2019 10:45	4.02	326.1	19.84	14.15	29.3	0
4/30/2019 11:00	5.101	324.1	33.02	14.75	29.31	0
4/30/2019 11:15	5.759	22.66	22.4	14.75	29.31	0
4/30/2019 11:30	8.91	30.31	11.38	15.07	29.31	0
4/30/2019 11:45	9.34	30.82	12.47	15.28	29.31	0
4/30/2019 12:00	9.31	9.55	29.99	15.79	29.3	0
4/30/2019 12:15	11.67	319.2	13.22	16.17	29.3	0
4/30/2019 12:30	10.34	323.1	21	16.23	29.3	0
4/30/2019 12:45	8.16	335	28.56	16.39	29.3	0
4/30/2019 13:00	7.607	322.9	27.27	16.91	29.29	0
4/30/2019 13:15	9.79	321.9	12.57	16.82	29.29	0
4/30/2019 13:30	6.229	331	36.07	17.08	29.29	0
4/30/2019 13:45	10.59	339.6	28.11	17.01	29.29	0
4/30/2019 14:00	8.37	338.8	31.82	16.78	29.27	0
4/30/2019 14:15	10.07	338.8	31.68	16.93	29.27	0
4/30/2019 14:30	8.18	31.33	23.58	16.89	29.27	0
4/30/2019 14:45	11.11	316.8	28.51	17.27	29.27	0
4/30/2019 15:00	7.708	341.9	39.9	17.27	29.25	0
4/30/2019 15:15	7.652	334.6	31.29	17.25	29.25	0
4/30/2019 15:30	11.22	304.2	34.19	17.27	29.25	0
4/30/2019 15:45	11.58	329.5	24.16	17.15	29.25	0
4/30/2019 16:00	8.69	10.53	20.4	16.9	29.26	0
4/30/2019 16:15	9.13	10.86	18.68	16.94	29.26	0
4/30/2019 16:30	8.07	320.8	23.62	17.21	29.26	0
4/30/2019 16:45	8.59	329.1	30.75	17.12	29.26	0
4/30/2019 17:00	9.18	302	15.1	17.01	29.24	0
4/30/2019 17:15	10.48	289.4	18.06	16.89	29.24	0
4/30/2019 17:30	8.9	305.4	13.6	16.7	29.24	0
4/30/2019 17:45	8.43	306.6	26.33	16.57	29.24	0
4/30/2019 18:00	8.13	302.2	16.6	16.39	29.25	0
4/30/2019 18:15	9.73	326.8	10.51	15.9	29.25	0
4/30/2019 18:30	8.97	321.1	11.5	15.32	29.25	0
4/30/2019 18:45	9.51	312.9	5.027	14.43	29.25	0
4/30/2019 19:00	7.913	315	3.793	13.88	29.24	0

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4/30/2019 19:15	6.47	323.1	6.003	13.62	29.24	0
4/30/2019 19:30	5.876	336.7	5.491	13.73	29.24	0
4/30/2019 19:45	1.945	30.65	23.84	13.49	29.24	0
4/30/2019 20:00	2.983	67.05	12.98	13.47	29.23	0
4/30/2019 20:15	2.154	120.7	17.63	13.11	29.23	0
4/30/2019 20:30	1.818	202.3	27.58	13.36	29.23	0
4/30/2019 20:45	1.303	250.6	6.736	13.89	29.23	0
4/30/2019 21:00	0.257	269.1	0.513	13.68	29.23	0
4/30/2019 21:15	0.437	12.51	19.97	12.14	29.23	0
4/30/2019 21:30	1.024	31.76	5.978	11.3	29.23	0
4/30/2019 21:45	0.316	50.91	3.422	11.83	29.23	0
4/30/2019 22:00	1.467	114	35.46	12.2	29.23	0
4/30/2019 22:15	1.872	138.5	14.6	11.52	29.23	0
4/30/2019 22:30	2.635	156.6	12.8	11.29	29.23	0
4/30/2019 22:45	4.34	173.1	9.08	10.77	29.23	0
4/30/2019 23:00	4.067	166.9	15.54	10.2	29.25	0
4/30/2019 23:15	1.349	123.7	15.01	10.29	29.25	0
4/30/2019 23:30	5.196	209.4	7.291	9.69	29.25	0
4/30/2019 23:45	7.524	196.7	10.45	9	29.25	0
5/1/2019 0:00	4.754	156.9	23.04	8.65	29.25	0
5/1/2019 0:15	4.321	110.5	8.42	8.12	29.25	0
5/1/2019 0:30	3.719	127.8	14.83	8.06	29.25	0
5/1/2019 0:45	5.391	152.6	8.89	8.72	29.25	0
5/1/2019 1:00	4.985	157.8	9.42	8.78	29.23	0
5/1/2019 1:15	3.708	150.2	17.19	8.56	29.23	0
5/1/2019 1:30	3.792	133.7	7.176	8.8	29.23	0
5/1/2019 1:45	4.67	133.4	8.63	8.86	29.23	0
5/1/2019 2:00	4.43	145	21.2	8.77	29.24	0
5/1/2019 2:15	4.925	169.3	12.57	8.37	29.24	0
5/1/2019 2:30	5.354	165.9	12.83	8.42	29.24	0
5/1/2019 2:45	3.39	147.4	13.01	8.28	29.24	0
5/1/2019 3:00	3.511	137.4	8.61	8.25	29.21	0
5/1/2019 3:15	3.716	147.9	10.39	8.2	29.21	0
5/1/2019 3:30	3.016	171.2	14.99	8.39	29.21	0
5/1/2019 3:45	3.917	181	10.84	7.918	29.21	0
5/1/2019 4:00	4.436	181.4	20.37	6.843	29.22	0
5/1/2019 4:15	4.729	187.4	12.4	6.858	29.22	0
5/1/2019 4:30	3.452	163.6	21.89	6.867	29.22	0
5/1/2019 4:45	3.426	160.3	10.12	7.361	29.22	0
5/1/2019 5:00	3.09	149.9	17.03	7.946	29.24	0
5/1/2019 5:15	3.702	165.6	12.02	8.11	29.24	0
5/1/2019 5:30	4.469	178.5	19.6	8.12	29.24	0
5/1/2019 5:45	5.953	193.3	11.54	7.146	29.24	0
5/1/2019 6:00	6.105	189	10.87	7.176	29.23	0
5/1/2019 6:15	4.474	177.5	11.55	8.08	29.23	0
5/1/2019 6:30	3.296	176.9	12.21	8.67	29.23	0
5/1/2019 6:45	5.08	201.4	7.816	9.13	29.23	0

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5/1/2019 7:00	5.148	202.9	8.88	8.92	29.25	0
5/1/2019 7:15	5.865	198.6	6.612	8.76	29.25	0
5/1/2019 7:30	6.71	192.4	7.357	8.96	29.25	0
5/1/2019 7:45	7.346	188.3	9.59	9.28	29.25	0
5/1/2019 8:00	10.42	188.1	7.414	9.65	29.24	0
5/1/2019 8:15	9.73	199.3	11.57	9.94	29.24	0
5/1/2019 8:30	11.85	191.8	12.75	10.17	29.24	0
5/1/2019 8:45	11.9	189	7.828	10.1	29.24	0
5/1/2019 9:00	11.09	200.8	12.76	10.59	29.25	0
5/1/2019 9:15	10.5	206.6	11.13	11.16	29.25	0
5/1/2019 9:30	11.49	206.2	9.65	11.48	29.25	0
5/1/2019 9:45	11.06	211.3	12.54	12.07	29.25	0
5/1/2019 10:00	8.25	209	27.61	12.04	29.23	0
5/1/2019 10:15	7.482	191.7	28.73	12.53	29.23	0
5/1/2019 10:30	10.42	217	18.19	12.81	29.23	0
5/1/2019 10:45	9.82	214.5	16.81	13.18	29.23	0
5/1/2019 11:00	9.89	200.6	21.24	13.7	29.22	0
5/1/2019 11:15	10.33	215	28.46	13.88	29.22	0
5/1/2019 11:30	9.55	220.3	23.32	14.15	29.22	0
5/1/2019 11:45	12.52	251.3	17.4	14.03	29.22	0
5/1/2019 12:00	10.29	236.3	27.11	14.29	29.23	0
5/1/2019 12:15	8.23	243.6	22.94	14.43	29.23	0
5/1/2019 12:30	10.2	252.9	22.64	14.58	29.23	0
5/1/2019 12:45	9.44	254.2	20.81	14.79	29.23	0
5/1/2019 13:00	11.02	252.1	21.72	15.1	29.22	0
5/1/2019 13:15	9.01	237.7	32.91	15.01	29.22	0
5/1/2019 13:30	10.84	274.8	22.32	15.29	29.22	0
5/1/2019 13:45	9.55	262.2	17.97	15.27	29.22	0
5/1/2019 14:00	11.91	250.7	21.62	15.47	29.22	0
5/1/2019 14:15	9.32	277.5	20.68	15.6	29.22	0
5/1/2019 14:30	10.89	247.8	16.09	16.03	29.22	0
5/1/2019 14:45	12.15	252.4	19.08	15.96	29.22	0
5/1/2019 15:00	12.06	253.6	12.34	15.99	29.2	0
5/1/2019 15:15	12.2	258.1	15.71	15.74	29.2	0
5/1/2019 15:30	11.53	258	20.83	15.78	29.2	0
5/1/2019 15:45	11	257.2	16.11	15.7	29.2	0
5/1/2019 16:00	12.72	254.3	16.51	15.74	29.18	0
5/1/2019 16:15	13.25	254.2	17.73	15.52	29.18	0
5/1/2019 16:30	11.06	266.4	15.01	15.49	29.18	0
5/1/2019 16:45	13.44	248.4	16.49	15.28	29.18	0
5/1/2019 17:00	12.12	249.4	13.66	15.19	29.17	0
5/1/2019 17:15	14.64	241.3	8.52	14.8	29.17	0
5/1/2019 17:30	14.45	249	9.76	14.39	29.17	0
5/1/2019 17:45	14.78	239.6	8.69	14.11	29.17	0
5/1/2019 18:00	14.87	245.3	9.69	13.71	29.19	0
5/1/2019 18:15	14.72	248.8	9.6	13.2	29.19	0
5/1/2019 18:30	14.11	248.8	11.02	12.68	29.19	0

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5/1/2019 18:45	12.29	245.3	8.54	12.16	29.19	0
5/1/2019 19:00	10.6	244.5	9.97	11.66	29.2	0
5/1/2019 19:15	10.92	243.3	9.27	11.07	29.2	0
5/1/2019 19:30	8.97	246.5	9.32	10.58	29.2	0
5/1/2019 19:45	9.16	241.9	10.29	10.22	29.2	0
5/1/2019 20:00	7.322	245.1	8.51	9.9	29.2	0
5/1/2019 20:15	6.523	241.7	14.85	9.53	29.2	0
5/1/2019 20:30	8.9	245.4	11.59	9.32	29.2	0
5/1/2019 20:45	7.635	239	8.05	9.11	29.2	0
5/1/2019 21:00	8.25	236.1	9.59	8.95	29.22	0
5/1/2019 21:15	4.992	215.8	18	8.75	29.22	0
5/1/2019 21:30	5.937	211.6	9.02	8.62	29.22	0
5/1/2019 21:45	7.576	200.1	9.5	8.38	29.22	0
5/1/2019 22:00	6.219	189.7	5.454	8.11	29.24	0
5/1/2019 22:15	8.52	186.1	5.866	8.1	29.24	0
5/1/2019 22:30	7.68	176.9	11.37	7.933	29.24	0
5/1/2019 22:45	7.368	162.5	10.13	7.684	29.24	0
5/1/2019 23:00	6.583	151.7	9.47	7.563	29.26	0
5/1/2019 23:15	7.581	152.5	6.85	7.48	29.26	0
5/1/2019 23:30	6.999	153.4	7.601	7.469	29.26	0
5/1/2019 23:45	7.748	155.4	6.621	7.455	29.26	0
5/2/2019 0:00	7.055	156.5	7.772	7.438	29.26	0
5/2/2019 0:15	6.801	148.2	8.63	7.437	29.26	0
5/2/2019 0:30	6.713	145.8	8.35	7.417	29.26	0
5/2/2019 0:45	6.472	148.4	7.662	7.399	29.26	0
5/2/2019 1:00	5.976	156.7	10.18	7.359	29.25	0
5/2/2019 1:15	6.323	153.4	9.54	7.339	29.25	0
5/2/2019 1:30	7.579	152.1	7.135	7.333	29.25	0
5/2/2019 1:45	7.855	155.6	7.435	7.284	29.25	0
5/2/2019 2:00	8.08	157.9	8.14	7.311	29.28	0
5/2/2019 2:15	8.81	161.3	9.71	7.355	29.28	0
5/2/2019 2:30	9.61	186.7	7.646	7.511	29.28	0
5/2/2019 2:45	9.4	186.8	8.32	7.542	29.28	0
5/2/2019 3:00	9.68	193.6	7.894	7.535	29.27	0
5/2/2019 3:15	10.91	201.4	13.31	7.506	29.27	0
5/2/2019 3:30	10.21	198.3	12.49	7.421	29.27	0
5/2/2019 3:45	12.32	207.6	10.72	7.39	29.27	0
5/2/2019 4:00	12.31	214.7	8.68	7.383	29.27	0
5/2/2019 4:15	10.06	204.6	9.6	7.309	29.27	0
5/2/2019 4:30	11.19	204	11.5	7.262	29.27	0
5/2/2019 4:45	9.44	200.7	11.68	7.184	29.27	0
5/2/2019 5:00	9.18	199.2	9.7	7.14	29.3	0
5/2/2019 5:15	7.796	192.6	10.82	7.069	29.3	0
5/2/2019 5:30	8.06	201.4	11.49	7.065	29.3	0
5/2/2019 5:45	8.87	193	9.6	7.001	29.3	0
5/2/2019 6:00	8.23	197.9	7.185	7.002	29.3	0
5/2/2019 6:15	8.78	199.6	9.14	7.022	29.3	0

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5/2/2019 6:30	8.35	197.8	9.8	7.031	29.3	0
5/2/2019 6:45	7.729	191.1	9.13	7.02	29.3	0
5/2/2019 7:00	8.1	188	8.87	7.056	29.32	0
5/2/2019 7:15	8.14	186.6	9.43	7.118	29.32	0
5/2/2019 7:30	7.767	190.1	9.97	7.145	29.32	0
5/2/2019 7:45	7.074	187.9	9.76	7.296	29.32	0
5/2/2019 8:00	7.759	185.6	13.25	7.364	29.34	0
5/2/2019 8:15	9.74	173.6	13.97	7.587	29.34	0
5/2/2019 8:30	10.4	192.9	9.54	8.05	29.34	0
5/2/2019 8:45	9.63	201.1	13.34	8.24	29.34	0
5/2/2019 9:00	9.33	200.9	14.32	8.45	29.34	0
5/2/2019 9:15	8.55	200.3	17.83	8.7	29.34	0
5/2/2019 9:30	8.84	213.1	22.5	9.3	29.34	0
5/2/2019 9:45	9.3	182.3	14.83	9.14	29.34	0
5/2/2019 10:00	9.87	222.4	18.41	9.18	29.36	0
5/2/2019 10:15	11.15	227.9	9.83	9.35	29.36	0
5/2/2019 10:30	10.45	222.5	13.39	9.94	29.36	0
5/2/2019 10:45	11.51	200.8	13.93	9.79	29.36	0
5/2/2019 11:00	8.04	210.6	25.88	10.16	29.36	0
5/2/2019 11:15	8.82	226	16.3	10.28	29.36	0
5/2/2019 11:30	9.95	184.1	22.15	10.84	29.36	0
5/2/2019 11:45	6.759	184.6	30.95	10.69	29.36	0
5/2/2019 12:00	8.55	225.8	15.96	10.73	29.37	0
5/2/2019 12:15	6.473	209.2	29.17	10.96	29.37	0
5/2/2019 12:30	9.56	177.5	27.22	11.94	29.37	0
5/2/2019 12:45	4.987	174.7	31.39	11.32	29.37	0
5/2/2019 13:00	7.311	201.1	36.83	11.3	29.36	0
5/2/2019 13:15	7.931	241	22.28	11.34	29.36	0
5/2/2019 13:30	8.84	223.9	26.76	11.23	29.36	0
5/2/2019 13:45	8.9	213.6	18.35	11.38	29.36	0
5/2/2019 14:00	9.87	212.9	13.16	11.71	29.36	0
5/2/2019 14:15	7.329	219.1	13.88	11.81	29.36	0
5/2/2019 14:30	8.04	197.9	14.74	11.78	29.36	0
5/2/2019 14:45	8.42	187.4	13.35	12.09	29.36	0
5/2/2019 15:00	7.663	221.7	27.81	12	29.34	0
5/2/2019 15:15	7.945	215.7	11.5	11.61	29.34	0
5/2/2019 15:30	5.952	225.1	15	11.83	29.34	0
5/2/2019 15:45	7.954	184.5	18.37	12.02	29.34	0
5/2/2019 16:00	6.714	176.9	27	12.2	29.32	0
5/2/2019 16:15	4.747	197.6	20.36	12.6	29.32	0
5/2/2019 16:30	4.322	201.9	35.22	12.48	29.32	0
5/2/2019 16:45	5.586	202.7	22.83	12.01	29.32	0
5/2/2019 17:00	6.6	216.8	12.25	12.24	29.33	0
5/2/2019 17:15	5.475	198.4	19.17	12.14	29.33	0
5/2/2019 17:30	4.514	172.3	22.28	12	29.33	0
5/2/2019 17:45	3.854	187.1	17.75	12.08	29.33	0
5/2/2019 18:00	4.141	199.5	12.16	12.02	29.31	0

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5/2/2019 18:15	5.051	173.8	23.37	12	29.31	0
5/2/2019 18:30	4.086	157	14.59	11.79	29.31	0
5/2/2019 18:45	3.267	125.7	8.93	11.64	29.31	0
5/2/2019 19:00	3.682	122.8	10.88	11.54	29.3	0
5/2/2019 19:15	2.866	113.3	7.859	11.45	29.3	0
5/2/2019 19:30	3.427	122.5	10.71	11.34	29.3	0
5/2/2019 19:45	3.721	128.2	6.584	11.27	29.3	0
5/2/2019 20:00	3.948	121.5	6.512	11.16	29.33	0
5/2/2019 20:15	4.025	107.1	6.92	11.12	29.33	0
5/2/2019 20:30	3.822	101.2	7.715	11.02	29.33	0
5/2/2019 20:45	2.043	95.1	1.661	10.94	29.33	0
5/2/2019 21:00	0.919	93.3	0.159	10.71	29.31	0
5/2/2019 21:15	1.779	154.2	55.01	10.6	29.31	0
5/2/2019 21:30	7.257	245.2	9.03	10.48	29.31	0
5/2/2019 21:45	7.299	261.2	6.44	10.12	29.31	0
5/2/2019 22:00	6.089	253.1	7.84	9.93	29.32	0
5/2/2019 22:15	4.929	246.3	12.28	9.63	29.32	0
5/2/2019 22:30	4.015	241.1	9.27	9.41	29.32	0
5/2/2019 22:45	4.067	201.1	20.07	9.04	29.32	0
5/2/2019 23:00	5.426	173.7	10.78	8.52	29.33	0
5/2/2019 23:15	5.132	183.4	9.68	8.28	29.33	0
5/2/2019 23:30	4.693	198.4	6.473	8.4	29.33	0
5/2/2019 23:45	5.039	186.3	11.13	8.35	29.33	0
5/3/2019 0:00	3.793	177.4	13.14	8.19	29.33	0
5/3/2019 0:15	2.475	169.4	14.46	8.07	29.33	0
5/3/2019 0:30	4.677	184.4	5.994	8	29.33	0
5/3/2019 0:45	4.145	185.7	7.1	8.05	29.33	0
5/3/2019 1:00	3.817	190.7	15.83	8.01	29.34	0
5/3/2019 1:15	3.079	153.5	12.58	7.612	29.34	0
5/3/2019 1:30	4.269	179.2	13.41	7.662	29.34	0
5/3/2019 1:45	3.808	195	8.83	7.699	29.34	0
5/3/2019 2:00	3.84	188.2	5.43	7.636	29.34	0
5/3/2019 2:15	2.885	171.1	14.44	7.499	29.34	0
5/3/2019 2:30	2.251	152.3	8.21	7.409	29.34	0
5/3/2019 2:45	2.387	169.6	13.6	7.34	29.34	0
5/3/2019 3:00	1.816	190.5	14.7	7.428	29.3	0
5/3/2019 3:15	1.649	242.9	24.23	7.592	29.3	0
5/3/2019 3:30	1.21	0.363	33.26	7.414	29.3	0
5/3/2019 3:45	0.652	353.6	13.56	7.366	29.3	0
5/3/2019 4:00	1.478	312.1	11.66	7.424	29.32	0
5/3/2019 4:15	1.17	225.7	36.19	7.573	29.32	0
5/3/2019 4:30	0.525	129.6	0.296	7.191	29.32	0
5/3/2019 4:45	0.057	129.8	0.024	7.312	29.32	0
5/3/2019 5:00	0.853	171.8	13.33	7.356	29.32	0
5/3/2019 5:15	0.509	207.1	4.471	7.447	29.32	0
5/3/2019 5:30	1.244	180.7	7.8	7.35	29.32	0
5/3/2019 5:45	2.069	190.9	6.635	7.29	29.32	0

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5/3/2019 6:00	2.278	187	12.16	7.31	29.31	0
5/3/2019 6:15	2.863	185.8	13.07	7.277	29.31	0
5/3/2019 6:30	3.22	181.3	8.82	7.247	29.31	0
5/3/2019 6:45	3.31	169.5	8.36	7.258	29.31	0
5/3/2019 7:00	2.946	178.6	4.502	7.315	29.33	0
5/3/2019 7:15	2.112	184.8	6.783	7.444	29.33	0
5/3/2019 7:30	1.883	163.2	25.25	7.577	29.33	0
5/3/2019 7:45	1.76	146.3	39.38	7.719	29.33	0
5/3/2019 8:00	1.81	185.7	28.91	7.929	29.34	0
5/3/2019 8:15	2.504	195.6	9.88	8	29.34	0
5/3/2019 8:30	2.487	205.2	24.99	8.04	29.34	0
5/3/2019 8:45	1.361	188.2	20.04	8.26	29.34	0
5/3/2019 9:00	1.204	173.1	16.23	8.58	29.34	0
5/3/2019 9:15	1.758	75.15	47.72	8.95	29.34	0
5/3/2019 9:30	2.25	25.03	26.99	9.19	29.34	0
5/3/2019 9:45	2.865	337.1	31.46	9.7	29.34	0
5/3/2019 10:00	1.723	245.1	61.29	9.74	29.31	0
5/3/2019 10:15	0.972	171.5	11.27	10.12	29.31	0
5/3/2019 10:30	3.491	16.88	36.61	10.36	29.31	0
5/3/2019 10:45	4.62	20.55	17.63	10.73	29.31	0
5/3/2019 11:00	3.378	43.9	36.41	11.48	29.31	0
5/3/2019 11:15	4.609	19.8	33.38	12.19	29.31	0
5/3/2019 11:30	5.799	301	20.97	12.4	29.31	0
5/3/2019 11:45	7.171	310.8	16.55	12.63	29.31	0
5/3/2019 12:00	6.66	308.7	20.01	13.17	29.3	0
5/3/2019 12:15	5.549	324.4	34.37	13.54	29.3	0
5/3/2019 12:30	8.48	290.9	24.19	13.78	29.3	0
5/3/2019 12:45	9.16	291.7	17.57	13.95	29.3	0
5/3/2019 13:00	7.288	318.5	42.67	13.62	29.28	0
5/3/2019 13:15	6.332	334.6	36.28	14.33	29.28	0
5/3/2019 13:30	5.159	358.1	22.32	14.15	29.28	0
5/3/2019 13:45	5.457	348	25.99	14.49	29.28	0
5/3/2019 14:00	8.18	0.206	17.58	14.22	29.26	0
5/3/2019 14:15	7.092	359.3	28.48	14.71	29.26	0
5/3/2019 14:30	7.1	330.9	35.15	15.29	29.26	0
5/3/2019 14:45	6.887	331.6	54.98	15.43	29.26	0
5/3/2019 15:00	5.97	349.6	61.49	15.43	29.26	0
5/3/2019 15:15	6.934	356.1	27.52	15.2	29.26	0
5/3/2019 15:30	7.506	339.8	19.08	15.38	29.26	0
5/3/2019 15:45	6.144	336.6	32.51	15.78	29.26	0
5/3/2019 16:00	6.879	322.5	26.17	15.61	29.27	0
5/3/2019 16:15	7.037	316.4	19.9	15.71	29.27	0
5/3/2019 16:30	7.666	317.6	16.15	15.59	29.27	0
5/3/2019 16:45	6.325	342	29.07	15.5	29.27	0
5/3/2019 17:00	7.051	322.4	24.54	15.59	29.23	0
5/3/2019 17:15	7.622	319.4	16.85	15.57	29.23	0
5/3/2019 17:30	8.19	312.1	9.34	15.33	29.23	0

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5/3/2019 17:45	8.94	310.9	9.04	15.19	29.23	0
5/3/2019 18:00	6.221	334.8	18.76	14.99	29.23	0
5/3/2019 18:15	7.069	325.2	11.15	14.67	29.23	0
5/3/2019 18:30	7.93	333.6	13.87	14.34	29.23	0
5/3/2019 18:45	6.557	326.5	8.08	13.89	29.23	0
5/3/2019 19:00	6.02	328.2	8.69	13.49	29.22	0
5/3/2019 19:15	6.511	327.7	8.49	12.93	29.22	0
5/3/2019 19:30	5.601	337.7	5.391	12.68	29.22	0
5/3/2019 19:45	6.284	335.5	4.948	12.47	29.22	0
5/3/2019 20:00	6.292	331.2	4.083	12.17	29.22	0
5/3/2019 20:15	5.392	347.1	15.09	11.67	29.22	0
5/3/2019 20:30	5.561	355.4	13.27	11.82	29.22	0
5/3/2019 20:45	5.369	357.7	13.59	11.42	29.22	0
5/3/2019 21:00	4.851	0.14	16.45	11.15	29.24	0
5/3/2019 21:15	4.209	4.963	16.37	10.87	29.24	0
5/3/2019 21:30	3.782	14.04	11.15	10.7	29.24	0
5/3/2019 21:45	6.079	1.859	20.15	11.01	29.24	0
5/3/2019 22:00	6.595	0.916	15.81	10.91	29.24	0
5/3/2019 22:15	4.644	352.9	23.15	10.21	29.24	0
5/3/2019 22:30	4.072	355.9	23.04	10.65	29.24	0
5/3/2019 22:45	4.527	7.897	32.37	10.47	29.24	0
5/3/2019 23:00	4.943	0.873	24.75	10.38	29.24	0
5/3/2019 23:15	4.412	346.4	30.09	10.25	29.24	0
5/3/2019 23:30	3.331	359.7	37.74	10.14	29.24	0
5/3/2019 23:45	1.781	7.054	42.24	9.81	29.24	0
5/4/2019 0:00	2.104	32.99	25.43	9.45	29.23	0
5/4/2019 0:15	2.818	24.38	20.27	9.24	29.23	0
5/4/2019 0:30	2.96	15.6	16.64	9.31	29.23	0
5/4/2019 0:45	2.971	8.32	31.12	9.23	29.23	0
5/4/2019 1:00	2.395	22.35	21.65	9.06	29.2	0
5/4/2019 1:15	4.093	17.01	19.56	8.81	29.2	0
5/4/2019 1:30	3.937	355.8	17.99	8.53	29.2	0
5/4/2019 1:45	4.953	13.12	17.61	8.24	29.2	0
5/4/2019 2:00	4.402	12.87	20.42	8.08	29.2	0
5/4/2019 2:15	4.771	36.26	22.06	8.08	29.2	0
5/4/2019 2:30	5.035	65.14	11.02	7.946	29.2	0
5/4/2019 2:45	2.095	35.81	27.47	7.96	29.2	0
5/4/2019 3:00	2.813	73.03	23.45	8.16	29.18	0
5/4/2019 3:15	2.589	143	16.3	8.12	29.18	0
5/4/2019 3:30	1.246	37.66	42.03	7.772	29.18	0
5/4/2019 3:45	0.457	22.7	64.97	7.222	29.18	0
5/4/2019 4:00	1.654	170.6	25.83	7.22	29.19	0
5/4/2019 4:15	2.012	161	5.733	7.177	29.19	0
5/4/2019 4:30	0.965	137.9	12.15	7.299	29.19	0
5/4/2019 4:45	0.428	100.7	5.215	7.287	29.19	0
5/4/2019 5:00	0.076	102.9	0.014	7.27	29.19	0
5/4/2019 5:15	0.767	111.7	28.63	6.924	29.19	0



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5/4/2019 5:30	2.411	141.3	11.46	6.324	29.19	0
5/4/2019 5:45	2.72	158.9	11.42	6.766	29.19	0
5/4/2019 6:00	0.182	179.1	0.324	7.726	29.21	0
5/4/2019 6:15	0.585	53.51	13.6	7.735	29.21	0
5/4/2019 6:30	0.852	224.5	86.3	8.16	29.21	0
5/4/2019 6:45	1.469	194.9	13.72	8.62	29.21	0
5/4/2019 7:00	1.864	198.9	15.93	8.6	29.21	0
5/4/2019 7:15	2.816	215.3	9.72	8.63	29.21	0
5/4/2019 7:30	3.397	203.7	11.55	8.86	29.21	0
5/4/2019 7:45	2.456	178.2	17.75	9.57	29.21	0
5/4/2019 8:00	1.204	168.2	40.61	10.31	29.21	0
5/4/2019 8:15	2.135	240.2	50.56	10.92	29.21	0
5/4/2019 8:30	2.475	245.4	24.85	11.17	29.21	0
5/4/2019 8:45	2.889	271.6	22.81	12.01	29.21	0
5/4/2019 9:00	3.301	325	32.08	13	29.2	0
5/4/2019 9:15	3.647	353.2	24.16	13.2	29.2	0
5/4/2019 9:30	6.934	20.39	14.22	13.54	29.2	0
5/4/2019 9:45	9.04	22.25	14.07	13.84	29.2	0
5/4/2019 10:00	7.032	14.41	28.41	14.22	29.2	0
5/4/2019 10:15	4.682	266.9	43.05	14.41	29.2	0
5/4/2019 10:30	5.092	275.6	57.89	14.67	29.2	0
5/4/2019 10:45	3.94	318	65.16	14.91	29.2	0
5/4/2019 11:00	8.72	337.8	27.81	15.54	29.19	0
5/4/2019 11:15	8.62	322.4	18.78	15.78	29.19	0
5/4/2019 11:30	11.9	310.8	18.95	15.8	29.19	0
5/4/2019 11:45	11.13	295.8	12.73	16.04	29.19	0
5/4/2019 12:00	9.02	316.5	26.89	16.27	29.18	0
5/4/2019 12:15	10.17	297	13.02	16.43	29.18	0
5/4/2019 12:30	9.85	307.5	19.54	16.77	29.18	0
5/4/2019 12:45	8.4	330.4	27.17	16.62	29.18	0
5/4/2019 13:00	5.702	335	29.96	16.98	29.16	0
5/4/2019 13:15	8.04	304.9	19.97	17.29	29.16	0
5/4/2019 13:30	8.96	311.8	23.71	17.37	29.16	0
5/4/2019 13:45	10.29	295.9	20.38	17.39	29.16	0
5/4/2019 14:00	10.15	306.6	18.54	17.46	29.13	0
5/4/2019 14:15	9.24	289.3	28.14	17.74	29.13	0
5/4/2019 14:30	7.114	279.3	39.47	17.59	29.13	0
5/4/2019 14:45	9.31	292.6	18.68	17.95	29.13	0
5/4/2019 15:00	8.74	273.4	10.52	17.83	29.11	0
5/4/2019 15:15	9.78	283.6	13.18	18.1	29.11	0
5/4/2019 15:30	10.45	281.7	11.99	18.24	29.11	0
5/4/2019 15:45	11.99	303	11.79	18.11	29.11	0
5/4/2019 16:00	10.83	300.6	13.18	17.91	29.11	0
5/4/2019 16:15	10.89	287.2	10.69	17.89	29.11	0
5/4/2019 16:30	11.38	278.5	11.94	17.83	29.11	0
5/4/2019 16:45	10.51	303.3	12.32	17.75	29.11	0
5/4/2019 17:00	10.16	319.2	10.64	17.46	29.12	0

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5/4/2019 17:15	8.41	322.3	12.48	17.6	29.12	0
5/4/2019 17:30	7.107	345.9	20.19	17.36	29.12	0
5/4/2019 17:45	5.907	358.2	18.24	16.95	29.12	0
5/4/2019 18:00	6.916	332	17.99	16.92	29.1	0
5/4/2019 18:15	6.173	328.5	9.57	16.33	29.1	0
5/4/2019 18:30	7.591	326.5	10.83	15.85	29.1	0
5/4/2019 18:45	9.54	317.4	6.676	15.6	29.1	0
5/4/2019 19:00	7.891	324.4	7.119	15.23	29.1	0
5/4/2019 19:15	7.065	330.9	8.55	15.02	29.1	0
5/4/2019 19:30	6.501	323.1	5.006	14.7	29.1	0
5/4/2019 19:45	5.48	351.8	24.83	14.17	29.1	0
5/4/2019 20:00	2.191	30.41	8.28	14.23	29.11	0
5/4/2019 20:15	2.971	10.06	9.55	13.95	29.11	0
5/4/2019 20:30	3.224	4.596	16.15	13.48	29.11	0
5/4/2019 20:45	3.224	22.24	5.817	13.07	29.11	0
5/4/2019 21:00	2.795	6.698	4.147	12.53	29.11	0
5/4/2019 21:15	2.679	7.228	3.414	12.22	29.11	0
5/4/2019 21:30	2.704	20.34	5.588	12.05	29.11	0
5/4/2019 21:45	2.727	330.1	31.46	12.06	29.11	0
5/4/2019 22:00	1.84	343	46.7	12.51	29.1	0
5/4/2019 22:15	0.694	11.57	13.68	11.97	29.1	0
5/4/2019 22:30	1.89	20.1	6.9	12.04	29.1	0
5/4/2019 22:45	2.111	16.87	15.3	12.33	29.1	0
5/4/2019 23:00	2.432	42.47	15.46	11.97	29.09	0
5/4/2019 23:15	1.297	38.2	9.58	11.85	29.09	0
5/4/2019 23:30	1.871	51.98	7.512	11.84	29.09	0
5/4/2019 23:45	2.177	58.21	4.535	11.44	29.09	0
5/5/2019 0:00	0.794	37.28	15.47	11.15	29.11	0
5/5/2019 0:15	1.381	59.67	12.05	10.96	29.11	0
5/5/2019 0:30	1.851	124.5	25.63	11.5	29.11	0
5/5/2019 0:45	1.709	266.3	19.97	11.79	29.11	0
5/5/2019 1:00	0.255	347.3	17.35	10.95	29.09	0
5/5/2019 1:15	0.545	294.2	21.22	10.72	29.09	0
5/5/2019 1:30	0.699	339.6	43.44	10.93	29.09	0
5/5/2019 1:45	0.701	10.26	2.742	10.67	29.09	0
5/5/2019 2:00	0.445	16.49	7.882	10.66	29.08	0
5/5/2019 2:15	0.436	38.96	1.934	10.67	29.08	0
5/5/2019 2:30	1.484	39.92	0.116	10.58	29.08	0
5/5/2019 2:45	1.634	40.37	4.031	9.06	29.08	0
5/5/2019 3:00	2.337	47.26	5.742	9.16	29.07	0
5/5/2019 3:15	1.863	52.98	8.3	9.72	29.07	0
5/5/2019 3:30	1.111	80.9	26.9	10.17	29.07	0
5/5/2019 3:45	2.133	213.6	44.56	9.81	29.07	0
5/5/2019 4:00	1.043	298.6	2.43	9.71	29.09	0
5/5/2019 4:15	0.475	298.7	1.029	9.8	29.09	0
5/5/2019 4:30	0.253	323.1	6.07	9.74	29.09	0
5/5/2019 4:45	0	0	0	9.39	29.09	0

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5/5/2019 5:00	0.002	17.21	0.53	9.15	29.09	0
5/5/2019 5:15	0	39.44	0.752	9.05	29.09	0
5/5/2019 5:30	0.165	48.74	0.026	9.17	29.09	0
5/5/2019 5:45	1.442	280.2	91	9.81	29.09	0
5/5/2019 6:00	1.963	215.7	8.83	9.15	29.08	0
5/5/2019 6:15	4.108	198.8	5.045	8.86	29.08	0
5/5/2019 6:30	4.295	193.9	6.87	9.1	29.08	0
5/5/2019 6:45	2.237	224.8	26.59	9.73	29.08	0
5/5/2019 7:00	1.783	226.8	18.21	10.18	29.11	0
5/5/2019 7:15	1.687	228	20.62	11	29.11	0
5/5/2019 7:30	2.645	202.4	16.7	11.18	29.11	0
5/5/2019 7:45	3.767	192.7	11.78	11.47	29.11	0
5/5/2019 8:00	3.043	182.3	18.79	12.01	29.09	0
5/5/2019 8:15	1.806	210	29.28	12.64	29.09	0
5/5/2019 8:30	1.46	225.9	46.88	13.39	29.09	0
5/5/2019 8:45	2.854	226.2	31.15	13.84	29.09	0
5/5/2019 9:00	3.115	248.3	30.06	14.16	29.11	0
5/5/2019 9:15	3.316	265.9	30.63	14.62	29.11	0
5/5/2019 9:30	2.906	262.7	40.5	15.25	29.11	0
5/5/2019 9:45	4.215	270.6	22.44	15.65	29.11	0
5/5/2019 10:00	5.697	291.7	26.88	15.9	29.09	0
5/5/2019 10:15	6.587	260.5	36.78	16.24	29.09	0
5/5/2019 10:30	6.994	286.4	41.71	16.68	29.09	0
5/5/2019 10:45	9.24	291.7	15.72	17.03	29.09	0
5/5/2019 11:00	6.836	288.3	17.19	16.99	29.07	0
5/5/2019 11:15	7.665	321.7	15.9	17.33	29.07	0
5/5/2019 11:30	8.51	336.8	20.99	17.6	29.07	0
5/5/2019 11:45	9.96	333.3	21.41	17.62	29.07	0
5/5/2019 12:00	9.56	316.4	21.59	17.8	29.07	0
5/5/2019 12:15	11.32	295.7	18.57	18.26	29.07	0
5/5/2019 12:30	12.21	297.9	17.52	18.19	29.07	0
5/5/2019 12:45	11.45	292	12.12	18.37	29.07	0
5/5/2019 13:00	12.7	305.1	14.33	18.3	29.07	0
5/5/2019 13:15	12.41	296.6	19.94	18.24	29.07	0
5/5/2019 13:30	13.16	269.5	12.62	18.25	29.07	0
5/5/2019 13:45	12.64	277.6	10.13	18.42	29.07	0
5/5/2019 14:00	13.04	279.4	13.1	18.55	29.07	0
5/5/2019 14:15	11.94	278.5	11.12	18.76	29.07	0
5/5/2019 14:30	10.72	282.3	20.27	18.89	29.07	0
5/5/2019 14:45	10.96	287.8	16.07	19.04	29.07	0
5/5/2019 15:00	12.42	289.8	11.41	18.88	29.06	0
5/5/2019 15:15	11.9	291.9	11.93	19.07	29.06	0
5/5/2019 15:30	11.58	292.2	15.34	18.94	29.06	0
5/5/2019 15:45	11.13	293.7	14.3	19.12	29.06	0
5/5/2019 16:00	10.43	298.1	18.49	18.75	29.05	0
5/5/2019 16:15	10.74	296.9	10.85	18.95	29.05	0
5/5/2019 16:30	10.96	299.1	10.24	18.85	29.05	0

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5/5/2019 16:45	11.19	298.1	9.88	18.74	29.05	0
5/5/2019 17:00	11.38	290	11.69	18.71	29.06	0
5/5/2019 17:15	10.52	298	13.65	18.41	29.06	0
5/5/2019 17:30	8.48	297.5	11.39	18.44	29.06	0
5/5/2019 17:45	9.3	307.3	13.49	18.51	29.06	0
5/5/2019 18:00	6.975	299	12.29	18.44	29.05	0
5/5/2019 18:15	6.42	293.1	5.571	18.38	29.05	0
5/5/2019 18:30	6.58	291.1	9.85	17.93	29.05	0
5/5/2019 18:45	8.32	288.5	7.67	17.2	29.05	0
5/5/2019 19:00	6.943	289.6	5.874	16.58	29.06	0
5/5/2019 19:15	5.554	302.3	8.05	15.79	29.06	0
5/5/2019 19:30	4.723	309.2	6.756	15.52	29.06	0
5/5/2019 19:45	3.972	293.8	10.07	15.08	29.06	0
5/5/2019 20:00	3.751	270.5	7.186	15	29.1	0
5/5/2019 20:15	2.321	320.8	23.89	14.85	29.1	0
5/5/2019 20:30	2.708	3.921	12.34	14.61	29.1	0
5/5/2019 20:45	2.156	315	26.78	14.56	29.1	0
5/5/2019 21:00	4.196	301.1	16.52	14.52	29.11	0
5/5/2019 21:15	1.952	42.75	20.36	14.38	29.11	0
5/5/2019 21:30	2.202	50.05	9.31	13.45	29.11	0
5/5/2019 21:45	3.354	23.98	15.4	13.2	29.11	0
5/5/2019 22:00	5.607	17.58	12.67	13.04	29.12	0
5/5/2019 22:15	7.809	13.27	7.437	12.73	29.12	0
5/5/2019 22:30	8.58	16.4	6.119	13.04	29.12	0
5/5/2019 22:45	7.167	9.66	12.74	13.39	29.12	0
5/5/2019 23:00	7.811	8.77	11.84	13.29	29.11	0
5/5/2019 23:15	6.216	15.12	7.771	12.81	29.11	0
5/5/2019 23:30	6.967	358.4	16.86	12.47	29.11	0
5/5/2019 23:45	6.138	348.7	12.05	12.6	29.11	0
5/6/2019 0:00	3.108	341.4	14.71	12.73	29.13	0
5/6/2019 0:15	1.374	19.92	14.34	12.25	29.13	0
5/6/2019 0:30	2.211	16.09	8.29	12.26	29.13	0
5/6/2019 0:45	1.603	2.142	12.93	12.24	29.13	0
5/6/2019 1:00	0.944	151.1	45.51	11.71	29.12	0
5/6/2019 1:15	2.992	177.6	12.65	11.77	29.12	0
5/6/2019 1:30	1.666	126.1	28.65	11.34	29.12	0
5/6/2019 1:45	0.578	30.07	11.69	10.82	29.12	0
5/6/2019 2:00	1.063	15.35	18.8	10.86	29.12	0
5/6/2019 2:15	1.704	14.93	26.9	11.07	29.12	0
5/6/2019 2:30	1.22	117.7	28.3	9.75	29.12	0
5/6/2019 2:45	1.526	127.4	14.33	10.53	29.12	0
5/6/2019 3:00	2.582	192.6	18.91	10.63	29.12	0
5/6/2019 3:15	2.725	180.4	10.55	11.41	29.12	0
5/6/2019 3:30	3.562	168.4	8.49	11.24	29.12	0
5/6/2019 3:45	2.58	186.5	16.81	10.82	29.12	0
5/6/2019 4:00	1.939	172.8	45.75	10.22	29.13	0
5/6/2019 4:15	0.748	333.8	55.98	9.52	29.13	0

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5/6/2019 4:30	3.115	329.4	6.564	9.97	29.13	0
5/6/2019 4:45	5.121	310.9	7.612	9.57	29.13	0
5/6/2019 5:00	4.604	322.8	19.52	9.65	29.15	0
5/6/2019 5:15	3.561	10.94	16.82	9.94	29.15	0
5/6/2019 5:30	2.846	26.08	8.06	9.49	29.15	0
5/6/2019 5:45	1.02	29.78	5.591	10	29.15	0
5/6/2019 6:00	1.244	112.8	10.93	9.97	29.17	0
5/6/2019 6:15	1.951	168.2	24.95	10.76	29.17	0
5/6/2019 6:30	1.804	198.6	19.19	11.76	29.17	0
5/6/2019 6:45	0.962	154.3	27.86	12.47	29.17	0
5/6/2019 7:00	2.503	333.8	18.92	12.66	29.18	0
5/6/2019 7:15	2.616	321.2	9.46	13.01	29.18	0
5/6/2019 7:30	3.232	314.1	12.21	13.18	29.18	0
5/6/2019 7:45	2.472	283	35.28	13.63	29.18	0
5/6/2019 8:00	2.446	276.1	19.61	13.87	29.19	0
5/6/2019 8:15	2.112	240.6	20.88	14.05	29.19	0
5/6/2019 8:30	2.642	228.4	17.14	14.56	29.19	0
5/6/2019 8:45	3.042	246.5	30.2	14.94	29.19	0
5/6/2019 9:00	3.898	256	27.54	15.57	29.19	0
5/6/2019 9:15	4.839	264.7	17.22	15.57	29.19	0
5/6/2019 9:30	4.881	275.1	19.45	16.15	29.19	0
5/6/2019 9:45	4.356	270.7	28.78	16.41	29.19	0
5/6/2019 10:00	4.393	257	23.84	16.86	29.17	0
5/6/2019 10:15	5.211	271.1	17.76	17.23	29.17	0
5/6/2019 10:30	7.05	265.2	12.42	17.48	29.17	0
5/6/2019 10:45	8.11	268.8	13.08	17.73	29.17	0
5/6/2019 11:00	7.975	260.4	14.21	18.42	29.18	0
5/6/2019 11:15	7.018	303.5	22.48	18.82	29.18	0
5/6/2019 11:30	7.471	294.5	14.2	19.31	29.18	0
5/6/2019 11:45	6.501	296.2	16.43	19.81	29.18	0
5/6/2019 12:00	5.578	289.7	21.39	20.21	29.16	0
5/6/2019 12:15	6.747	315.2	25.98	20.52	29.16	0
5/6/2019 12:30	8	322.1	21.51	21.08	29.16	0
5/6/2019 12:45	7.703	319.6	14.64	21.4	29.16	0
5/6/2019 13:00	8.27	317.2	13.37	21.47	29.16	0
5/6/2019 13:15	7.512	342.2	21.7	22	29.16	0
5/6/2019 13:30	6.308	351.7	40.95	21.78	29.16	0
5/6/2019 13:45	6.667	358.8	41.95	22.05	29.16	0
5/6/2019 14:00	5.625	334.1	22.96	22.2	29.13	0
5/6/2019 14:15	5.121	306.1	29.61	22.4	29.13	0
5/6/2019 14:30	8.39	274.5	22.11	22.48	29.13	0
5/6/2019 14:45	7.617	314.6	27.94	22.47	29.13	0
5/6/2019 15:00	10.18	298	13.02	22.39	29.14	0
5/6/2019 15:15	9.81	302.1	11.56	22.48	29.14	0
5/6/2019 15:30	10.49	316.8	8.81	22.41	29.14	0
5/6/2019 15:45	7.928	318.6	16	22.24	29.14	0
5/6/2019 16:00	8.82	312.6	13.98	22.21	29.13	0

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5/6/2019 16:15	9.33	321.1	14.42	22.12	29.13	0
5/6/2019 16:30	9.62	307	17.64	22.37	29.13	0
5/6/2019 16:45	10.95	296.7	11.1	22.08	29.13	0
5/6/2019 17:00	9.81	301.8	10.44	22.01	29.12	0
5/6/2019 17:15	8.77	320.8	9	21.55	29.12	0
5/6/2019 17:30	7.457	328.5	10.76	21.32	29.12	0
5/6/2019 17:45	8.06	325.9	13	21.17	29.12	0
5/6/2019 18:00	7.529	319.7	5.85	20.84	29.12	0
5/6/2019 18:15	5.118	334.7	14.74	20.47	29.12	0
5/6/2019 18:30	5.244	334.2	14.43	20.03	29.12	0
5/6/2019 18:45	6.694	325.2	8.73	19.74	29.12	0
5/6/2019 19:00	4.736	317.7	12.38	19.52	29.12	0
5/6/2019 19:15	2.826	334.5	23.24	19.32	29.12	0
5/6/2019 19:30	4.803	325.7	8.26	19.11	29.12	0
5/6/2019 19:45	4.855	307.5	15.76	18.72	29.12	0
5/6/2019 20:00	4.37	278.4	19.01	18.78	29.16	0
5/6/2019 20:15	5.824	279.3	10.32	18.05	29.16	0
5/6/2019 20:30	3.339	337.3	37.94	18.18	29.16	0
5/6/2019 20:45	4.326	348.7	37.96	17.8	29.16	0
5/6/2019 21:00	3.484	331	24.05	17.44	29.17	0
5/6/2019 21:15	3.208	345.9	55.09	17.12	29.17	0
5/6/2019 21:30	4.112	330.1	64.79	16.92	29.17	0
5/6/2019 21:45	4.695	357.8	27.53	16.6	29.17	0
5/6/2019 22:00	2.328	251.7	37.32	16.6	29.17	0
5/6/2019 22:15	2.515	253.8	44.15	16.71	29.17	0
5/6/2019 22:30	3.202	254.9	33.1	16.52	29.17	0
5/6/2019 22:45	0.802	266.2	62.79	16.01	29.17	0
5/6/2019 23:00	1.391	79.14	68.23	16.45	29.18	0
5/6/2019 23:15	1.257	18.04	33.32	16.05	29.18	0
5/6/2019 23:30	1.766	26.39	27.15	15.63	29.18	0
5/6/2019 23:45	0.891	47.68	16.87	15.18	29.18	0
5/7/2019 0:00	2.848	63	20.6	15.33	29.17	0
5/7/2019 0:15	1.584	325.6	53.51	14.89	29.17	0
5/7/2019 0:30	1.241	298.4	43.13	15.16	29.17	0
5/7/2019 0:45	2.397	315.9	42.21	15.08	29.17	0
5/7/2019 1:00	4.342	33.4	12.46	13.14	29.18	0
5/7/2019 1:15	3.256	38.38	12.02	12.71	29.18	0
5/7/2019 1:30	3.717	38.76	11.6	12.4	29.18	0
5/7/2019 1:45	4.712	34.98	12.71	12.16	29.18	0
5/7/2019 2:00	3.505	42.96	16.94	12.75	29.2	0
5/7/2019 2:15	2.77	46.01	11.98	13.24	29.2	0
5/7/2019 2:30	3.259	34.44	9.2	12.79	29.2	0
5/7/2019 2:45	2.461	32.62	7.552	12.48	29.2	0
5/7/2019 3:00	2.75	47.6	6.566	12.3	29.19	0
5/7/2019 3:15	0.857	93.1	17.84	11.51	29.19	0
5/7/2019 3:30	1.53	79.34	14.57	11.22	29.19	0
5/7/2019 3:45	1.767	41.76	10.87	11	29.19	0

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5/7/2019 4:00	0.596	16.98	11.75	11.14	29.22	0
5/7/2019 4:15	0.101	52.61	8.39	11.37	29.22	0
5/7/2019 4:30	1.255	144	28.25	11.25	29.22	0
5/7/2019 4:45	0.995	176.9	35.7	10.91	29.22	0
5/7/2019 5:00	1.059	316.7	34.82	11.48	29.21	0
5/7/2019 5:15	0.34	348.4	42.79	10.53	29.21	0
5/7/2019 5:30	1.993	162.5	13.39	10.97	29.21	0
5/7/2019 5:45	2.228	129.2	17.88	10.41	29.21	0
5/7/2019 6:00	2.448	156.7	35.1	11.4	29.23	0
5/7/2019 6:15	4.298	171.4	11.37	11.74	29.23	0
5/7/2019 6:30	3.551	154.4	13.97	11.53	29.23	0
5/7/2019 6:45	3.338	161.8	10.57	11.85	29.23	0
5/7/2019 7:00	3.925	165.2	11.43	12.25	29.27	0
5/7/2019 7:15	2.436	162.1	19.53	12.66	29.27	0
5/7/2019 7:30	3.317	145.6	26.75	13.29	29.27	0
5/7/2019 7:45	2.846	208.1	21.03	13.49	29.27	0
5/7/2019 8:00	3.068	209.2	17.88	13.75	29.26	0
5/7/2019 8:15	1.622	249.6	30.56	14.48	29.26	0
5/7/2019 8:30	2.668	266.9	21.5	14.94	29.26	0
5/7/2019 8:45	2.485	255.5	25.69	15.31	29.26	0
5/7/2019 9:00	1.903	287.1	69.28	16.08	29.26	0
5/7/2019 9:15	2.443	275.5	56.54	16.27	29.26	0
5/7/2019 9:30	2.625	337.5	23.08	16.79	29.26	0
5/7/2019 9:45	3.014	319.9	37.06	17.17	29.26	0
5/7/2019 10:00	5.763	259.9	30.39	17.12	29.28	0
5/7/2019 10:15	7.438	263	16.03	17.15	29.28	0
5/7/2019 10:30	7.697	271.3	11.11	17.37	29.28	0
5/7/2019 10:45	6.67	262.2	14.47	17.75	29.28	0
5/7/2019 11:00	8.81	250	16.05	17.95	29.26	0
5/7/2019 11:15	9.11	265.5	25.21	18.65	29.26	0
5/7/2019 11:30	10.29	258.7	13.66	18.93	29.26	0
5/7/2019 11:45	8.97	269.4	11.3	18.99	29.26	0
5/7/2019 12:00	7.813	294.5	22.96	19.49	29.28	0
5/7/2019 12:15	9.56	289.8	12.29	19.53	29.28	0
5/7/2019 12:30	9.02	286.5	12.51	19.91	29.28	0
5/7/2019 12:45	11.33	289.1	12.18	20.21	29.28	0
5/7/2019 13:00	12.58	289	10.79	20.02	29.27	0
5/7/2019 13:15	10.87	297.6	18.12	20.52	29.27	0
5/7/2019 13:30	12.97	303.6	16.9	20.43	29.27	0
5/7/2019 13:45	10.58	310.6	12.42	20.7	29.27	0
5/7/2019 14:00	11.18	292.8	10.41	20.91	29.29	0
5/7/2019 14:15	11.44	295.4	8.94	20.81	29.29	0
5/7/2019 14:30	10.16	313.9	21.37	20.86	29.29	0
5/7/2019 14:45	8.34	306.2	14.94	21.17	29.29	0
5/7/2019 15:00	9.36	319.7	18.22	21.14	29.27	0
5/7/2019 15:15	7.978	321.8	15.05	21.21	29.27	0
5/7/2019 15:30	8.81	324	18.89	21.15	29.27	0

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5/7/2019 15:45	8.44	337.1	21.57	21.1	29.27	0
5/7/2019 16:00	9.4	333.8	22.52	21.01	29.27	0
5/7/2019 16:15	8.75	339.8	17.87	21	29.27	0
5/7/2019 16:30	7.333	356.2	23.44	20.91	29.27	0
5/7/2019 16:45	9.25	7.965	17.53	20.77	29.27	0
5/7/2019 17:00	8.77	342.9	16.75	20.73	29.28	0
5/7/2019 17:15	7.388	359.1	22.94	20.64	29.28	0
5/7/2019 17:30	8.51	343.1	15.37	20.5	29.28	0
5/7/2019 17:45	6.403	358.4	23.62	20.02	29.28	0
5/7/2019 18:00	5.889	14.74	13.21	19.55	29.26	0
5/7/2019 18:15	5.705	14.14	10.27	19.08	29.26	0
5/7/2019 18:30	5.405	336.8	14.1	19.39	29.26	0
5/7/2019 18:45	7.619	311.9	5.586	19.02	29.26	0
5/7/2019 19:00	6.709	304.6	8.36	18.77	29.28	0
5/7/2019 19:15	5.975	308.7	8.78	18.3	29.28	0
5/7/2019 19:30	5.567	307.9	4.085	17.69	29.28	0
5/7/2019 19:45	5.969	310.2	2.769	17.51	29.28	0
5/7/2019 20:00	5.214	319.8	6.903	17.42	29.31	0
5/7/2019 20:15	5.153	305.6	2.51	17.25	29.31	0
5/7/2019 20:30	3.597	328.6	9	16.52	29.31	0
5/7/2019 20:45	3.757	352.7	14.2	15.79	29.31	0
5/7/2019 21:00	5.914	10.81	12.71	15.2	29.32	0
5/7/2019 21:15	8.53	26.36	12.34	15.87	29.32	0
5/7/2019 21:30	7.723	34.63	12.62	16.07	29.32	0
5/7/2019 21:45	6.933	40.96	13.02	15.48	29.32	0
5/7/2019 22:00	8.26	22.19	4.299	15.51	29.33	0
5/7/2019 22:15	5.653	10.39	12.78	16.08	29.33	0
5/7/2019 22:30	5.477	18.31	9.71	15.79	29.33	0
5/7/2019 22:45	5.364	28.64	17.72	15.72	29.33	0
5/7/2019 23:00	5.376	1.373	19.09	15.59	29.32	0
5/7/2019 23:15	4.575	355.5	17.57	15.2	29.32	0
5/7/2019 23:30	2.213	33.29	12.93	14.5	29.32	0
5/7/2019 23:45	3.916	59.88	8.3	14.03	29.32	0
5/8/2019 0:00	3.753	77.27	8.24	12.89	29.32	0
5/8/2019 0:15	2.121	90	18.58	13.22	29.32	0
5/8/2019 0:30	3.036	149.5	9.14	14.28	29.32	0
5/8/2019 0:45	2.565	163	9.05	14.54	29.32	0
5/8/2019 1:00	1.52	87.3	31.69	13.18	29.32	0
5/8/2019 1:15	0.149	33.89	22.43	13.07	29.32	0
5/8/2019 1:30	0.215	12.91	10.24	13.24	29.32	0
5/8/2019 1:45	0.466	316.1	19.16	12.37	29.32	0
5/8/2019 2:00	5.871	230.4	13.31	11.65	29.35	0
5/8/2019 2:15	6.706	208.8	6.677	11.63	29.35	0
5/8/2019 2:30	5.195	192.9	9.85	11.99	29.35	0
5/8/2019 2:45	2.936	149	9.19	11.58	29.35	0
5/8/2019 3:00	2.326	93.6	31.6	10.78	29.36	0
5/8/2019 3:15	2.754	145.8	23.62	10.85	29.36	0



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5/8/2019 3:30	4.364	168.7	7.718	11.29	29.36	0
5/8/2019 3:45	4.913	144	4.793	10.94	29.36	0
5/8/2019 4:00	5.544	158.5	12.53	11.02	29.36	0
5/8/2019 4:15	5.874	156.7	3.883	10.72	29.36	0
5/8/2019 4:30	5.927	168.9	12.21	10.03	29.36	0
5/8/2019 4:45	6.305	194.7	4.17	10.38	29.36	0
5/8/2019 5:00	5.391	202.9	6.679	10.39	29.35	0
5/8/2019 5:15	4.103	207.1	4.893	10.44	29.35	0
5/8/2019 5:30	2.709	181.7	13.42	10.16	29.35	0
5/8/2019 5:45	5.23	193.2	6.465	10.21	29.35	0
5/8/2019 6:00	5.496	203.4	5.58	9.82	29.37	0
5/8/2019 6:15	4.024	187.9	14.63	9.92	29.37	0
5/8/2019 6:30	2.642	165.7	13.93	10.22	29.37	0
5/8/2019 6:45	3.316	184.6	10.86	10.39	29.37	0
5/8/2019 7:00	2.752	209.9	18.63	10.44	29.4	0
5/8/2019 7:15	3.747	187.6	13.19	10.69	29.4	0
5/8/2019 7:30	3.682	197.7	12.37	10.97	29.4	0
5/8/2019 7:45	3.104	189.8	8.84	11.42	29.4	0
5/8/2019 8:00	2.724	176.7	19.03	11.54	29.39	0
5/8/2019 8:15	2.816	203.4	16.83	11.77	29.39	0
5/8/2019 8:30	3.806	203.3	14.08	11.99	29.39	0
5/8/2019 8:45	3.68	206.2	12.79	12.29	29.39	0
5/8/2019 9:00	2.923	225.3	20.63	12.9	29.38	0
5/8/2019 9:15	1.325	255.6	49.62	14.02	29.38	0
5/8/2019 9:30	2.406	249.5	49.99	14.63	29.38	0
5/8/2019 9:45	3.1	244	28.46	15.02	29.38	0
5/8/2019 10:00	2.512	302.4	30.69	15.55	29.36	0
5/8/2019 10:15	3.861	280.7	28.27	15.83	29.36	0
5/8/2019 10:30	5.207	278.9	20.92	16.21	29.36	0
5/8/2019 10:45	4.302	287.5	31.41	16.67	29.36	0
5/8/2019 11:00	6.915	298.8	26.58	17.23	29.37	0
5/8/2019 11:15	6.508	290.4	15.69	17.26	29.37	0
5/8/2019 11:30	6.139	300	20.35	17.85	29.37	0
5/8/2019 11:45	6.908	292.8	18.86	18.4	29.37	0
5/8/2019 12:00	5.343	312	30.81	18.89	29.36	0
5/8/2019 12:15	6.183	313.5	23.86	19.39	29.36	0
5/8/2019 12:30	8.28	291.7	22.32	19.83	29.36	0
5/8/2019 12:45	9.14	290.6	18.87	20.07	29.36	0
5/8/2019 13:00	9.27	281.8	15.29	20.12	29.31	0
5/8/2019 13:15	8.67	288	16.74	20.56	29.31	0
5/8/2019 13:30	9.52	292.7	17.38	20.86	29.31	0
5/8/2019 13:45	9.86	311.3	19.55	20.94	29.31	0
5/8/2019 14:00	9.99	316.1	14.28	21.43	29.31	0
5/8/2019 14:15	11.68	316.8	8.63	21.59	29.31	0
5/8/2019 14:30	10.65	326	14.89	21.49	29.31	0
5/8/2019 14:45	8.52	338.7	23.72	21.96	29.31	0
5/8/2019 15:00	8.15	6.441	23.15	21.99	29.29	0

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5/8/2019 15:15	9.28	6.077	16.29	22	29.29	0
5/8/2019 15:30	10	10.53	16	21.9	29.29	0
5/8/2019 15:45	8.62	351.1	21.06	22.27	29.29	0
5/8/2019 16:00	7.751	324.5	20.01	22.55	29.25	0
5/8/2019 16:15	9.02	321.3	12.57	22.42	29.25	0
5/8/2019 16:30	8.84	317.1	12.64	22.45	29.25	0
5/8/2019 16:45	8.52	0.953	25.83	22.18	29.25	0
5/8/2019 17:00	8.54	11.56	18.64	21.88	29.27	0
5/8/2019 17:15	5.991	9.04	18.61	21.94	29.27	0
5/8/2019 17:30	9.5	341.3	11.89	21.89	29.27	0
5/8/2019 17:45	7.89	338.8	12.46	21.81	29.27	0
5/8/2019 18:00	7.696	329.6	12.18	21.62	29.26	0
5/8/2019 18:15	8.71	320.2	8.75	21.28	29.26	0
5/8/2019 18:30	8.42	314.9	8.79	20.91	29.26	0
5/8/2019 18:45	8.52	311.6	6.011	20.58	29.26	0
5/8/2019 19:00	8.07	313.5	6.758	20.14	29.25	0
5/8/2019 19:15	7.697	311.2	6.939	19.65	29.25	0
5/8/2019 19:30	7.143	299.3	7.617	19.25	29.25	0
5/8/2019 19:45	6.651	300.7	8.97	18.84	29.25	0
5/8/2019 20:00	6.683	332	13.42	18.11	29.25	0
5/8/2019 20:15	11.56	350.8	15.41	18.11	29.25	0
5/8/2019 20:30	11.94	7.001	10.91	17.95	29.25	0
5/8/2019 20:45	5.821	12.4	18.23	17.64	29.25	0
5/8/2019 21:00	5.181	352.3	22.22	17.68	29.26	0
5/8/2019 21:15	4.996	333.5	24.08	17.62	29.26	0
5/8/2019 21:30	5.884	14.96	9.82	17.38	29.26	0
5/8/2019 21:45	8.11	20.65	4.537	16.54	29.26	0
5/8/2019 22:00	10.07	14.59	3.828	16.41	29.27	0
5/8/2019 22:15	8.11	28.23	8.4	16.29	29.27	0
5/8/2019 22:30	3.967	358.8	23.11	15.98	29.27	0
5/8/2019 22:45	4.419	342.9	26.5	16.18	29.27	0
5/8/2019 23:00	4.379	18.49	11.4	15.7	29.27	0
5/8/2019 23:15	2.532	18.83	9.18	15.22	29.27	0
5/8/2019 23:30	4.259	32.15	9.84	14.45	29.27	0
5/8/2019 23:45	7.193	34.36	9.89	13.58	29.27	0
5/9/2019 0:00	5.871	45.23	9.62	13.63	29.27	0
5/9/2019 0:15	6.263	40.87	5.753	13.46	29.27	0
5/9/2019 0:30	6.895	29.68	8.1	13.34	29.27	0
5/9/2019 0:45	7.952	29.13	8.57	13.47	29.27	0
5/9/2019 1:00	6.42	29.7	7.701	13.28	29.26	0
5/9/2019 1:15	6.751	29.7	7.463	12.97	29.26	0
5/9/2019 1:30	6.943	31.16	7.667	12.79	29.26	0
5/9/2019 1:45	6.749	34.32	7.829	12.74	29.26	0
5/9/2019 2:00	6.261	35.97	7.992	12.75	29.25	0
5/9/2019 2:15	5.916	29.63	10.26	12.54	29.25	0
5/9/2019 2:30	5.821	29.73	9.34	12.23	29.25	0
5/9/2019 2:45	5.896	44.6	6.442	11.97	29.25	0

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5/9/2019 3:00	6.032	39.53	7.45	12.05	29.26	0
5/9/2019 3:15	5.913	29.98	9.02	11.8	29.26	0
5/9/2019 3:30	6.957	25.88	9.06	11.71	29.26	0
5/9/2019 3:45	7.143	35.21	6.611	11.28	29.26	0
5/9/2019 4:00	6.195	28.46	10.47	11.09	29.23	0
5/9/2019 4:15	6.033	41.57	9.94	10.87	29.23	0
5/9/2019 4:30	6.148	38.85	6.291	10.69	29.23	0
5/9/2019 4:45	6.115	35.24	7.68	10.78	29.23	0
5/9/2019 5:00	7.015	32.88	8.61	10.57	29.26	0
5/9/2019 5:15	8.26	29.02	8.06	10.63	29.26	0
5/9/2019 5:30	6.985	31.46	7.665	10.47	29.26	0
5/9/2019 5:45	6.817	29.62	8.13	10.96	29.26	0
5/9/2019 6:00	7.297	33.77	10.37	11.29	29.26	0
5/9/2019 6:15	8.12	28.27	6.841	11.49	29.26	0
5/9/2019 6:30	6.62	33.69	7.987	12.15	29.26	0
5/9/2019 6:45	6.036	39.55	10.88	12.41	29.26	0
5/9/2019 7:00	5.286	40.92	7.717	12.91	29.26	0
5/9/2019 7:15	5.325	39.3	7.991	13.56	29.26	0
5/9/2019 7:30	4.317	30.14	14.55	14.27	29.26	0
5/9/2019 7:45	3.788	28.45	14.47	15.32	29.26	0
5/9/2019 8:00	2.381	10.92	24.54	16.47	29.25	0
5/9/2019 8:15	3.219	20.78	35.31	17.91	29.25	0
5/9/2019 8:30	4.102	34.61	25.82	18.46	29.25	0
5/9/2019 8:45	4.193	11.4	21.41	18.84	29.25	0
5/9/2019 9:00	3.536	355.2	41.84	20.53	29.25	0
5/9/2019 9:15	3.684	31.73	20.16	21.1	29.25	0
5/9/2019 9:30	4.923	44.57	29.13	20.78	29.25	0
5/9/2019 9:45	5.258	29.74	17.54	21.24	29.25	0
5/9/2019 10:00	4.34	22.72	16.06	21.59	29.25	0
5/9/2019 10:15	4.224	51.31	25.35	22.98	29.25	0
5/9/2019 10:30	4.581	37.8	25.22	23.1	29.25	0
5/9/2019 10:45	3.839	46.51	38.85	24.06	29.25	0
5/9/2019 11:00	4.52	12.79	24.53	24.55	29.24	0
5/9/2019 11:15	5.352	17.1	45.65	24.83	29.24	0
5/9/2019 11:30	6.195	37.25	25.76	24.87	29.24	0
5/9/2019 11:45	4.239	83.1	55.33	25.59	29.24	0
5/9/2019 12:00	5.979	30.22	34.51	25.69	29.22	0
5/9/2019 12:15	3.217	271.3	77.79	25.95	29.22	0
5/9/2019 12:30	6.178	133.8	37.5	26.39	29.22	0
5/9/2019 12:45	9.72	156	23.84	25.98	29.22	0
5/9/2019 13:00	4.241	114.8	59.96	26.71	29.19	0
5/9/2019 13:15	4.355	115.3	54.07	26.66	29.19	0
5/9/2019 13:30	5.443	31.47	39.25	26.39	29.19	0
5/9/2019 13:45	8.89	30.91	15.94	26.12	29.19	0
5/9/2019 14:00	8.48	21.78	17.73	26.27	29.15	0
5/9/2019 14:15	12.03	340.7	29.52	26.34	29.15	0
5/9/2019 14:30	16.2	331.3	13.78	25.64	29.15	0

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5/9/2019 14:45	15.48	343.9	19.14	25.42	29.15	0
5/9/2019 15:00	14.15	352.4	18.42	25.47	29.15	0
5/9/2019 15:15	18.01	331.7	8.23	25.22	29.15	0
5/9/2019 15:30	15.8	333.2	14.39	25.4	29.15	0
5/9/2019 15:45	16.57	333.6	14.32	25.21	29.15	0
5/9/2019 16:00	14.25	348	17.65	25.03	29.13	0
5/9/2019 16:15	14.21	352.8	15.55	24.85	29.13	0
5/9/2019 16:30	12.42	356.7	16.6	24.89	29.13	0
5/9/2019 16:45	16.59	357	17.61	24.62	29.13	0
5/9/2019 17:00	13.87	1.598	17.61	24.52	29.12	0
5/9/2019 17:15	13.45	358.5	15.78	24.57	29.12	0
5/9/2019 17:30	11.78	0.564	16.74	24.48	29.12	0
5/9/2019 17:45	12.09	10.58	13.36	24.24	29.12	0
5/9/2019 18:00	9.79	12.18	13.64	24.09	29.12	0
5/9/2019 18:15	8.05	20.8	13.94	23.7	29.12	0
5/9/2019 18:30	8.26	31.52	11.58	23.35	29.12	0
5/9/2019 18:45	7.23	24.09	14.79	23.12	29.12	0
5/9/2019 19:00	0.809	37.06	10.57	23.52	29.1	0
5/9/2019 19:15	1.175	354.1	25.35	23.68	29.1	0
5/9/2019 19:30	2.285	29	15.55	23.19	29.1	0
5/9/2019 19:45	2.824	358.7	34.5	22.68	29.1	0
5/9/2019 20:00	1.978	344.2	22.12	22.17	29.12	0
5/9/2019 20:15	4.1	4.315	15.33	21.38	29.12	0
5/9/2019 20:30	5.058	354.4	16.79	20.79	29.12	0
5/9/2019 20:45	4.93	9.32	17.1	19.57	29.12	0
5/9/2019 21:00	4.034	33.18	11.85	19.55	29.12	0
5/9/2019 21:15	4.295	46.8	9.95	19.5	29.12	0
5/9/2019 21:30	5.704	49.59	7.99	19.06	29.12	0
5/9/2019 21:45	5.498	48.74	6.964	18.91	29.12	0
5/9/2019 22:00	5.923	49.32	8.94	19.42	29.12	0
5/9/2019 22:15	6.544	39.01	10.02	19.47	29.12	0
5/9/2019 22:30	6.538	36.51	8.74	19.28	29.12	0
5/9/2019 22:45	5.46	43.62	9.99	19.19	29.12	0
5/9/2019 23:00	1.968	41.32	7.24	18.81	29.13	0
5/9/2019 23:15	2.71	67.76	12.17	18.96	29.13	0
5/9/2019 23:30	2.779	55.53	5.99	19.1	29.13	0
5/9/2019 23:45	2.688	168.3	15.77	17.87	29.13	0
5/10/2019 0:00	4.405	150.9	9.84	17.75	29.13	0
5/10/2019 0:15	3.888	171	8.08	17.78	29.13	0
5/10/2019 0:30	3.635	161.9	7.282	16.99	29.13	0
5/10/2019 0:45	1.748	167.8	43.92	16.5	29.13	0
5/10/2019 1:00	3.268	265.8	32.3	15.84	29.1	0
5/10/2019 1:15	4.023	306.7	16.27	15.71	29.1	0
5/10/2019 1:30	2.83	320.6	13.59	16.44	29.1	0
5/10/2019 1:45	3.605	285.1	26.66	15.73	29.1	0
5/10/2019 2:00	4.647	229.1	8.15	14.89	29.12	0
5/10/2019 2:15	5.853	192.9	13.79	14.81	29.12	0

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5/10/2019 2:30	4.847	166.8	9.58	13.84	29.12	0
5/10/2019 2:45	6.093	180.4	4.443	13.78	29.12	0
5/10/2019 3:00	4.639	149.1	14.65	14	29.11	0
5/10/2019 3:15	4.594	115.6	5.732	13.57	29.11	0
5/10/2019 3:30	4.659	145.9	11.24	14.39	29.11	0
5/10/2019 3:45	4.715	136.2	9.48	14.93	29.11	0
5/10/2019 4:00	3.739	130.9	6.629	14.96	29.1	0
5/10/2019 4:15	2.687	108.3	4.253	14.42	29.1	0
5/10/2019 4:30	4.181	107.7	4.884	14.89	29.1	0
5/10/2019 4:45	4.623	126.2	9.61	15.04	29.1	0
5/10/2019 5:00	4.463	145.7	5.228	15.3	29.11	0
5/10/2019 5:15	4.128	158.7	5.289	15.21	29.11	0
5/10/2019 5:30	4.116	154.5	3.128	15.23	29.11	0
5/10/2019 5:45	3.577	167.5	7.345	15.79	29.11	0
5/10/2019 6:00	3.592	171.4	12.16	15.68	29.12	0
5/10/2019 6:15	1.993	68.2	45.33	14.84	29.12	0
5/10/2019 6:30	2.24	52.41	4.326	14.17	29.12	0
5/10/2019 6:45	2.363	38.45	7.047	14.76	29.12	0
5/10/2019 7:00	1.967	53.17	6.18	15.7	29.14	0
5/10/2019 7:15	1.632	36.93	4.586	16.25	29.14	0
5/10/2019 7:30	1.401	56.16	9.61	17.27	29.14	0
5/10/2019 7:45	1.314	110.8	20.36	18.8	29.14	0
5/10/2019 8:00	2.126	154.9	28.01	19.24	29.12	0
5/10/2019 8:15	1.315	98.3	25.83	20.18	29.12	0
5/10/2019 8:30	1.453	81.9	39.24	20.67	29.12	0
5/10/2019 8:45	2.337	357.5	24.18	20.53	29.12	0
5/10/2019 9:00	1.582	305	58.41	21.37	29.12	0
5/10/2019 9:15	2.13	321	30.72	21.85	29.12	0
5/10/2019 9:30	3.771	310.8	23.27	21.96	29.12	0
5/10/2019 9:45	2.811	327.3	21.67	22.3	29.12	0
5/10/2019 10:00	3.335	323.6	31.85	22.91	29.11	0
5/10/2019 10:15	3.331	341.4	21.5	23.4	29.11	0
5/10/2019 10:30	5.937	276.2	14.2	23.64	29.11	0
5/10/2019 10:45	7.203	271.8	11.72	23.63	29.11	0
5/10/2019 11:00	7.822	280.6	25.21	24	29.11	0
5/10/2019 11:15	7.273	297	14.59	24.56	29.11	0
5/10/2019 11:30	8.31	294.8	13.11	24.7	29.11	0
5/10/2019 11:45	8.23	295.1	12.17	24.93	29.11	0
5/10/2019 12:00	8.29	296.8	19.99	25.4	29.09	0
5/10/2019 12:15	8.12	301.9	24.29	25.67	29.09	0
5/10/2019 12:30	7.098	318.6	21.15	25.95	29.09	0
5/10/2019 12:45	6.407	298	29.16	26.47	29.09	0
5/10/2019 13:00	7.975	328	30.92	26.63	29.08	0
5/10/2019 13:15	6.84	350	35.76	26.88	29.08	0
5/10/2019 13:30	7.56	336.3	28.19	27.06	29.08	0
5/10/2019 13:45	6.357	324.3	22.88	27.51	29.08	0
5/10/2019 14:00	7.637	335.2	18.02	27.35	29.08	0

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5/10/2019 14:15	5.268	334.2	32.74	27.64	29.08	0
5/10/2019 14:30	7.223	335.1	22.72	27.74	29.08	0
5/10/2019 14:45	5.662	315.9	28.62	27.71	29.08	0
5/10/2019 15:00	6.922	319.6	23	28	29.05	0
5/10/2019 15:15	7.787	326.5	24.78	27.99	29.05	0
5/10/2019 15:30	7.609	305.2	22.37	28.07	29.05	0
5/10/2019 15:45	7.687	336	17.84	27.82	29.05	0
5/10/2019 16:00	7.347	332.4	17.53	27.91	29.03	0
5/10/2019 16:15	5.45	336.7	26.84	28.13	29.03	0
5/10/2019 16:30	5.273	343.4	38.91	27.81	29.03	0
5/10/2019 16:45	5.792	320.9	17.79	27.96	29.03	0
5/10/2019 17:00	5.915	317.8	12.35	27.88	29.02	0
5/10/2019 17:15	5.788	333.5	22.67	27.69	29.02	0
5/10/2019 17:30	6.214	324.1	9.83	27.57	29.02	0
5/10/2019 17:45	5.981	322.1	9.03	27.46	29.02	0
5/10/2019 18:00	6.654	301.7	6.914	27.29	29.02	0
5/10/2019 18:15	5.343	295.2	13.48	27.16	29.02	0
5/10/2019 18:30	5.887	280.8	6.529	26.65	29.02	0
5/10/2019 18:45	5.579	285.3	6.031	26.18	29.02	0
5/10/2019 19:00	4.43	281.4	4.056	25.85	29.04	0
5/10/2019 19:15	4.485	295.8	8.76	25.36	29.04	0
5/10/2019 19:30	5.055	308.7	2.193	25.1	29.04	0
5/10/2019 19:45	5.57	310.4	9.12	24.19	29.04	0
5/10/2019 20:00	5.345	303	9.62	23.92	29.03	0
5/10/2019 20:15	3.847	329.1	20.94	23.39	29.03	0
5/10/2019 20:30	3.635	318.8	15.08	22.81	29.03	0
5/10/2019 20:45	3.3	7.563	16.61	22.33	29.03	0
5/10/2019 21:00	2.976	22.71	11.06	21.06	29.06	0
5/10/2019 21:15	2.514	69.23	11.08	20.73	29.06	0
5/10/2019 21:30	2.748	120.7	20.67	20.39	29.06	0
5/10/2019 21:45	2.539	81.1	21.71	21.95	29.06	0
5/10/2019 22:00	3.732	56.22	17.4	21.66	29.05	0
5/10/2019 22:15	1.775	81.9	16.38	20.5	29.05	0
5/10/2019 22:30	2.679	50.05	11.94	21.29	29.05	0
5/10/2019 22:45	1.488	48.29	5.543	20.85	29.05	0
5/10/2019 23:00	2.061	72.36	8.06	20.81	29.07	0
5/10/2019 23:15	1.979	158.5	47.77	19.31	29.07	0
5/10/2019 23:30	3.667	164.2	9.87	19.24	29.07	0
5/10/2019 23:45	1.471	128.5	25.55	18.88	29.07	0
5/11/2019 0:00	1.308	85.8	5.736	17.82	29.06	0
5/11/2019 0:15	1.72	99.6	9.3	19.08	29.06	0
5/11/2019 0:30	1.398	99.1	3.98	18.62	29.06	0
5/11/2019 0:45	0.275	88.5	20.02	18.54	29.06	0
5/11/2019 1:00	3.745	268.7	6.268	17.2	29.07	0
5/11/2019 1:15	3.216	268.5	16.99	17.59	29.07	0
5/11/2019 1:30	2.792	204.5	10.22	17.36	29.07	0
5/11/2019 1:45	1.962	193.7	1.27	17.07	29.07	0

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5/11/2019 2:00	2.074	199.9	3.201	17.19	29.07	0
5/11/2019 2:15	2.264	223.8	18.9	16.95	29.07	0
5/11/2019 2:30	3.409	175.7	26.27	16.33	29.07	0
5/11/2019 2:45	2.853	114.2	8.74	16.29	29.07	0
5/11/2019 3:00	2.835	111.3	8	16.47	29.07	0
5/11/2019 3:15	3.126	112	8.96	16.71	29.07	0
5/11/2019 3:30	3.399	161.9	18.19	17.31	29.07	0
5/11/2019 3:45	4.473	180.2	4.571	16.45	29.07	0
5/11/2019 4:00	4.121	180.2	5.771	16.01	29.05	0
5/11/2019 4:15	4.091	177.9	7.929	15.96	29.05	0
5/11/2019 4:30	4.97	162.3	6.844	15.49	29.05	0
5/11/2019 4:45	3.073	137.8	11.16	15.91	29.05	0
5/11/2019 5:00	3.45	138.8	10.93	16.66	29.07	0
5/11/2019 5:15	3.796	160.5	6.985	16.69	29.07	0
5/11/2019 5:30	3.874	158.3	5.961	16.69	29.07	0
5/11/2019 5:45	4.083	178.7	8.22	16.45	29.07	0
5/11/2019 6:00	4.111	170.7	9.74	16.57	29.07	0
5/11/2019 6:15	4.554	162	6.001	17.01	29.07	0
5/11/2019 6:30	3.378	154.9	8.05	17.64	29.07	0
5/11/2019 6:45	1.32	80.1	44.33	18.54	29.07	0
5/11/2019 7:00	1.601	134.1	35.95	19	29.06	0
5/11/2019 7:15	1.247	226.4	68.78	19.42	29.06	0
5/11/2019 7:30	4.069	333.7	9.92	18.83	29.06	0
5/11/2019 7:45	3.327	326	15.08	18.97	29.06	0
5/11/2019 8:00	1.83	260.6	49.17	19.94	29.07	0
5/11/2019 8:15	2.539	203	47.41	20.4	29.07	0
5/11/2019 8:30	3.444	188.2	32.65	20.71	29.07	0
5/11/2019 8:45	3.679	196.8	23.03	20.83	29.07	0
5/11/2019 9:00	4.03	205.2	19.65	21.18	29.09	0
5/11/2019 9:15	3.331	218.7	27.42	21.63	29.09	0
5/11/2019 9:30	4.748	211.1	27.99	22.12	29.09	0
5/11/2019 9:45	5.376	207	20.61	22.72	29.09	0
5/11/2019 10:00	5.862	208	27.34	23.15	29.08	0
5/11/2019 10:15	5.322	234.8	23.08	23.4	29.08	0
5/11/2019 10:30	5.191	246.6	21.07	23.6	29.08	0
5/11/2019 10:45	5.831	242	27.93	24.05	29.08	0
5/11/2019 11:00	7.504	280.1	11.19	23.72	29.1	0
5/11/2019 11:15	6.53	267.5	28.01	23.99	29.1	0
5/11/2019 11:30	5.654	245.6	28.56	23.77	29.1	0
5/11/2019 11:45	6.76	255.5	12.23	24.35	29.1	0
5/11/2019 12:00	7.38	281.4	20.29	24.6	29.08	0
5/11/2019 12:15	5.668	248.9	31.88	24.64	29.08	0
5/11/2019 12:30	4.173	271.1	40.43	25.21	29.08	0
5/11/2019 12:45	5.764	270.3	25.08	25.18	29.08	0
5/11/2019 13:00	4.983	283.4	18.3	25.77	29.08	0
5/11/2019 13:15	6.192	282.5	15.64	25.5	29.08	0
5/11/2019 13:30	6.062	273.3	16.29	26.13	29.08	0

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5/11/2019 13:45	5.847	258.7	23.72	26.05	29.08	0
5/11/2019 14:00	4.69	223.5	26.73	26.31	29.05	0
5/11/2019 14:15	6.275	242.1	38.04	26.9	29.05	0
5/11/2019 14:30	7.764	242.1	25.95	26.79	29.05	0
5/11/2019 14:45	8.78	267.7	22.35	26.97	29.05	0
5/11/2019 15:00	9.79	250	20.54	27.12	29.05	0
5/11/2019 15:15	10.57	269.7	11.93	26.84	29.05	0
5/11/2019 15:30	9.19	254.7	12.87	26.91	29.05	0
5/11/2019 15:45	7.621	235.3	15.28	26.67	29.05	0
5/11/2019 16:00	8.08	234.7	19.04	26.88	29.05	0
5/11/2019 16:15	9.28	242.1	15.62	26.67	29.05	0
5/11/2019 16:30	9.82	238	10.71	26.25	29.05	0
5/11/2019 16:45	9.14	261.6	17.66	26.19	29.05	0
5/11/2019 17:00	8.6	259	14.67	25.8	29.04	0
5/11/2019 17:15	10.49	253.7	12.31	25.13	29.04	0
5/11/2019 17:30	11.73	243.7	12.45	24.54	29.04	0
5/11/2019 17:45	12.13	245.5	13.63	23.54	29.04	0
5/11/2019 18:00	8.78	234.5	13.45	22.9	29.05	0
5/11/2019 18:15	6.817	239.8	15.31	22.48	29.05	0
5/11/2019 18:30	7.876	252.4	10.54	21.78	29.05	0
5/11/2019 18:45	8.25	242.7	6.183	21.36	29.05	0
5/11/2019 19:00	6.976	236.7	9.08	20.9	29.06	0
5/11/2019 19:15	5.293	225.1	9.71	20.37	29.06	0
5/11/2019 19:30	5.813	232.3	7.752	20.01	29.06	0
5/11/2019 19:45	9.96	222.5	13.43	19.15	29.06	0
5/11/2019 20:00	8.49	213.1	17.29	18.15	29.08	0
5/11/2019 20:15	7.407	229.9	6.394	17.34	29.08	0
5/11/2019 20:30	8.67	233.8	4.623	16.52	29.08	0
5/11/2019 20:45	8.34	238	5.238	16.02	29.08	0
5/11/2019 21:00	6.216	250.4	7.811	15.51	29.09	0
5/11/2019 21:15	6	261.1	5.289	14.63	29.09	0
5/11/2019 21:30	6.312	255.2	5.934	14.09	29.09	0
5/11/2019 21:45	2.986	234.4	19.26	13.77	29.09	0
5/11/2019 22:00	4.196	247.6	10.17	13.36	29.1	0
5/11/2019 22:15	2.647	249.4	6.562	13.03	29.1	0
5/11/2019 22:30	2.132	236.1	21.03	12.82	29.1	0
5/11/2019 22:45	5.022	226.5	7.284	12.63	29.1	0
5/11/2019 23:00	5.598	251.1	11.68	12.13	29.11	0
5/11/2019 23:15	6.388	262	5.954	11.57	29.11	0
5/11/2019 23:30	6.23	249.5	9.58	11.19	29.11	0
5/11/2019 23:45	5.466	241	5.531	11.06	29.11	0
5/12/2019 0:00	4.367	225.5	8.24	10.96	29.1	0
5/12/2019 0:15	2.694	249.8	7.32	10.72	29.1	0
5/12/2019 0:30	0.478	194.6	12.8	10.24	29.1	0
5/12/2019 0:45	0.953	176.6	21.62	10.13	29.1	0
5/12/2019 1:00	2.179	155.6	14.89	10.29	29.11	0
5/12/2019 1:15	3.802	163.6	10.28	10.08	29.11	0



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5/12/2019 1:30	4.577	176.7	11	10.04	29.11	0
5/12/2019 1:45	5.504	155.3	8.89	9.74	29.11	0
5/12/2019 2:00	5.588	170.7	12.9	10.06	29.12	0
5/12/2019 2:15	6.209	157.1	7.721	9.85	29.12	0
5/12/2019 2:30	6.858	147.8	7.132	9.75	29.12	0
5/12/2019 2:45	7.461	143.9	5.473	9.88	29.12	0
5/12/2019 3:00	8.61	146.6	7.205	9.91	29.13	0
5/12/2019 3:15	8.36	149.9	9.18	9.81	29.13	0
5/12/2019 3:30	9.29	162.8	12.8	9.88	29.13	0
5/12/2019 3:45	9.83	178.3	9.63	9.93	29.13	0
5/12/2019 4:00	6.843	191.9	17.08	9.97	29.14	0
5/12/2019 4:15	5.808	146.3	10.34	9.73	29.14	0
5/12/2019 4:30	6.277	139.2	10.41	9.79	29.14	0
5/12/2019 4:45	5.953	138.2	9.41	9.8	29.14	0
5/12/2019 5:00	5.99	141.6	8.57	9.8	29.14	0
5/12/2019 5:15	5.494	149.1	12.48	9.84	29.14	0
5/12/2019 5:30	5.285	200.7	18.86	10.1	29.14	0
5/12/2019 5:45	4.618	150.2	10.47	9.91	29.14	0
5/12/2019 6:00	5.631	147.8	6.309	9.81	29.14	0
5/12/2019 6:15	6.856	139.3	7.038	9.81	29.14	0
5/12/2019 6:30	7.492	143	10.18	9.83	29.14	0
5/12/2019 6:45	6.77	143.7	6.861	9.82	29.14	0
5/12/2019 7:00	7.643	153.6	9.66	9.86	29.14	0
5/12/2019 7:15	7.728	159.9	13.19	10.04	29.14	0
5/12/2019 7:30	7.829	195.3	14.25	10.39	29.14	0
5/12/2019 7:45	8.69	203.9	7.935	10.28	29.14	0
5/12/2019 8:00	7.813	195.1	9.2	10.17	29.17	0
5/12/2019 8:15	7.067	186.7	9.17	10.27	29.17	0
5/12/2019 8:30	8.16	202.7	18.23	10.45	29.17	0
5/12/2019 8:45	7.612	195.5	13.24	10.52	29.17	0
5/12/2019 9:00	6.846	200.7	11.01	10.42	29.17	0
5/12/2019 9:15	5.771	192.7	16.22	10.55	29.17	0
5/12/2019 9:30	6.235	174.8	8.71	10.49	29.17	0
5/12/2019 9:45	6.628	167.8	18.72	10.69	29.17	0
5/12/2019 10:00	5.653	181.8	19.39	10.83	29.16	0
5/12/2019 10:15	5.425	170	16.77	10.95	29.16	0
5/12/2019 10:30	5.305	182.9	14.47	11.11	29.16	0
5/12/2019 10:45	3.997	194.9	21.87	11.26	29.16	0
5/12/2019 11:00	3.148	176.2	16.9	11.53	29.16	0
5/12/2019 11:15	2.62	189.1	31.66	11.86	29.16	0
5/12/2019 11:30	4.097	174.3	20.38	11.96	29.16	0
5/12/2019 11:45	4.415	197.9	15.85	12.2	29.16	0
5/12/2019 12:00	4.979	174.6	27.37	12.66	29.16	0
5/12/2019 12:15	4.849	138.7	18.55	13.21	29.16	0
5/12/2019 12:30	3.264	94.3	51.88	14.08	29.16	0
5/12/2019 12:45	4.748	144.6	28.61	14.42	29.16	0
5/12/2019 13:00	2.206	348	83	15.13	29.16	0

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5/12/2019 13:15	4.312	187.7	52.7	15.98	29.16	0
5/12/2019 13:30	3.678	174.2	41.96	16	29.16	0
5/12/2019 13:45	3.756	132.9	60.68	16.56	29.16	0
5/12/2019 14:00	4.568	124.2	26.28	16.88	29.12	0
5/12/2019 14:15	3.351	137.4	40.01	17.45	29.12	0
5/12/2019 14:30	3.409	195.6	42.36	17.92	29.12	0
5/12/2019 14:45	3.714	213	74.25	18.41	29.12	0
5/12/2019 15:00	4.464	228.1	40.83	18.48	29.12	0
5/12/2019 15:15	6.611	264.1	20.11	18.62	29.12	0
5/12/2019 15:30	8.48	284.9	15.68	18.23	29.12	0
5/12/2019 15:45	9.03	282.1	14.16	18.12	29.12	0
5/12/2019 16:00	8.68	279.3	18.18	17.95	29.12	0
5/12/2019 16:15	7.028	261.7	17.64	18.23	29.12	0
5/12/2019 16:30	7.96	264.3	22.49	18.1	29.12	0
5/12/2019 16:45	8.31	260.3	18.99	17.66	29.12	0
5/12/2019 17:00	6.912	257.8	17.48	17.58	29.12	0
5/12/2019 17:15	5.791	247.5	21.82	17.79	29.12	0
5/12/2019 17:30	6.639	253.5	18.86	17.74	29.12	0
5/12/2019 17:45	5.635	240.6	21.2	17.37	29.12	0
5/12/2019 18:00	4.977	261.5	15.79	17.64	29.1	0
5/12/2019 18:15	5.909	257.6	20.52	17.49	29.1	0
5/12/2019 18:30	5.639	239.7	8.19	17.48	29.1	0
5/12/2019 18:45	4.103	230	9.46	17.29	29.1	0
5/12/2019 19:00	3.108	197.4	14.51	16.77	29.12	0
5/12/2019 19:15	2.949	204.3	12.25	16.73	29.12	0
5/12/2019 19:30	2.51	203.4	3.077	16.43	29.12	0
5/12/2019 19:45	3.106	210.9	4.797	16.29	29.12	0
5/12/2019 20:00	3.216	207.8	1.881	16.15	29.12	0
5/12/2019 20:15	2.933	210.1	5.526	15.76	29.12	0
5/12/2019 20:30	3.237	218.4	9.3	15.23	29.12	0
5/12/2019 20:45	2.621	238.2	3.888	14.85	29.12	0
5/12/2019 21:00	2.843	242	8.57	14.54	29.13	0
5/12/2019 21:15	4.985	261.4	6.26	14.19	29.13	0
5/12/2019 21:30	4.155	269.4	5.07	13.65	29.13	0
5/12/2019 21:45	3.403	257.9	7.158	13.53	29.13	0
5/12/2019 22:00	1.969	219	25.64	13.4	29.14	0
5/12/2019 22:15	3.655	211.5	23.28	13.05	29.14	0
5/12/2019 22:30	2.922	222.1	15.23	12.94	29.14	0
5/12/2019 22:45	3.708	209.5	4.349	12.37	29.14	0
5/12/2019 23:00	6.115	206.4	4.859	12.01	29.12	0
5/12/2019 23:15	5.711	214	4.286	11.9	29.12	0
5/12/2019 23:30	5.025	224.6	10.18	11.8	29.12	0
5/12/2019 23:45	6.507	238.5	3.595	11.42	29.12	0
5/13/2019 0:00	5.39	245.9	2.213	10.96	29.14	0
5/13/2019 0:15	4.314	265	7.726	10.59	29.14	0
5/13/2019 0:30	1.468	277.5	2.082	9.96	29.14	0
5/13/2019 0:45	1.088	276	0.544	9.88	29.14	0

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5/13/2019 1:00	2.865	169.7	26.46	10.02	29.15	0
5/13/2019 1:15	2.998	168.6	12.34	9.77	29.15	0
5/13/2019 1:30	4.371	178	7.329	9.32	29.15	0
5/13/2019 1:45	5.663	182.9	9.26	8.99	29.15	0
5/13/2019 2:00	6.801	212.8	7.599	8.86	29.16	0
5/13/2019 2:15	4.521	223.5	2.422	8.96	29.16	0
5/13/2019 2:30	1.651	204.2	6.003	8.74	29.16	0
5/13/2019 2:45	2.931	192.8	6.224	8.95	29.16	0
5/13/2019 3:00	4.29	183.6	5.962	8.6	29.14	0
5/13/2019 3:15	4.127	167.1	7.037	8.27	29.14	0
5/13/2019 3:30	3.958	177	9.26	8.1	29.14	0
5/13/2019 3:45	3.534	180.2	11.86	8.22	29.14	0
5/13/2019 4:00	3.562	176.1	13.98	8.22	29.16	0
5/13/2019 4:15	3.307	165	10.04	7.964	29.16	0
5/13/2019 4:30	3.024	154.7	14.2	7.768	29.16	0
5/13/2019 4:45	4.095	159.1	13.92	7.522	29.16	0
5/13/2019 5:00	4.486	175.4	6.91	7.393	29.17	0
5/13/2019 5:15	6.499	185.3	6.529	7.36	29.17	0
5/13/2019 5:30	5.557	163.5	7.915	7.161	29.17	0
5/13/2019 5:45	5.58	166.5	8.46	7.172	29.17	0
5/13/2019 6:00	4.919	145	15.31	7.399	29.18	0
5/13/2019 6:15	5.459	150.8	5.603	7.365	29.18	0
5/13/2019 6:30	5.623	147.6	9.99	7.542	29.18	0
5/13/2019 6:45	6.717	167.7	12.66	7.562	29.18	0
5/13/2019 7:00	7.453	176.6	7.21	7.776	29.2	0
5/13/2019 7:15	6.398	169.9	19.38	8.14	29.2	0
5/13/2019 7:30	5.504	175	17.15	8.32	29.2	0
5/13/2019 7:45	4.885	200	11.26	8.51	29.2	0
5/13/2019 8:00	5.284	190.7	11.19	8.92	29.19	0
5/13/2019 8:15	4.548	162	19.29	9.42	29.19	0
5/13/2019 8:30	5.787	174.4	12.7	9.58	29.19	0
5/13/2019 8:45	5.637	188.3	9.35	9.75	29.19	0
5/13/2019 9:00	4.081	162.4	26.5	10.07	29.19	0
5/13/2019 9:15	4.657	141.5	29.32	10.5	29.19	0
5/13/2019 9:30	5.062	192.9	13.41	10.35	29.19	0
5/13/2019 9:45	3.199	170.4	50.91	10.68	29.19	0
5/13/2019 10:00	4.571	177.6	20.37	11.14	29.18	0
5/13/2019 10:15	4.241	158.4	34.2	11.48	29.18	0
5/13/2019 10:30	3.988	190.3	25.31	11.56	29.18	0
5/13/2019 10:45	3.041	192.1	32.45	11.88	29.18	0
5/13/2019 11:00	2.017	51.34	87.8	12.51	29.16	0
5/13/2019 11:15	2.652	191.6	39.95	13.18	29.16	0
5/13/2019 11:30	2.495	227	51.21	13.11	29.16	0
5/13/2019 11:45	4.937	201.9	19.46	13.46	29.16	0
5/13/2019 12:00	3.723	235.9	31.39	13.83	29.15	0
5/13/2019 12:15	3.313	213	33.91	14.47	29.15	0
5/13/2019 12:30	4.327	202.8	20.19	14.37	29.15	0

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5/13/2019 12:45	4.263	215	32.73	14.98	29.15	0
5/13/2019 13:00	3.337	229.2	60.55	15.39	29.15	0
5/13/2019 13:15	4.153	277.9	36.08	15.7	29.15	0
5/13/2019 13:30	6.315	266.7	17	15.96	29.15	0
5/13/2019 13:45	4.182	261.1	24.07	15.74	29.15	0
5/13/2019 14:00	5.174	271.5	18.47	15.56	29.13	0
5/13/2019 14:15	8.41	270.8	11.27	15.83	29.13	0
5/13/2019 14:30	6.025	270.3	16.75	16.02	29.13	0
5/13/2019 14:45	4.689	274	36.84	16.21	29.13	0
5/13/2019 15:00	3.507	311.1	27.18	16.56	29.15	0
5/13/2019 15:15	4.828	255.7	28.28	16.69	29.15	0
5/13/2019 15:30	3.817	295.8	39.99	17.2	29.15	0
5/13/2019 15:45	5.455	304.6	20.53	17.24	29.15	0
5/13/2019 16:00	4.501	263.9	24.34	17.4	29.12	0
5/13/2019 16:15	6.9	266.6	19.29	17.61	29.12	0
5/13/2019 16:30	7.445	224.6	14.15	17.58	29.12	0
5/13/2019 16:45	6.232	244.3	21.51	17.7	29.12	0
5/13/2019 17:00	3.205	270	35.62	17.85	29.11	0
5/13/2019 17:15	2.595	186.3	52.83	17.68	29.11	0
5/13/2019 17:30	2.903	195.2	44.19	17.82	29.11	0
5/13/2019 17:45	3.961	184	12.12	17.49	29.11	0
5/13/2019 18:00	1.919	156.8	26.19	17.64	29.08	0
5/13/2019 18:15	3.573	198.6	17.08	17.27	29.08	0
5/13/2019 18:30	3.131	192.4	10.91	17.15	29.08	0
5/13/2019 18:45	3.409	208.8	8.12	17.04	29.08	0
5/13/2019 19:00	2.5	230.1	19.99	17.01	29.11	0
5/13/2019 19:15	2.175	244.6	8.18	16.86	29.11	0
5/13/2019 19:30	0.736	260.3	29.6	16.39	29.11	0
5/13/2019 19:45	1.635	3.014	15.66	14.86	29.11	0
5/13/2019 20:00	1.23	22.17	9.94	14.68	29.08	0
5/13/2019 20:15	2.935	42.1	6.591	14.33	29.08	0
5/13/2019 20:30	2.166	39.78	9.54	14.03	29.08	0
5/13/2019 20:45	1.636	57.01	0.331	13.54	29.08	0
5/13/2019 21:00	1.763	58.56	1.912	13.96	29.09	0
5/13/2019 21:15	2.56	84.6	12.06	12.47	29.09	0
5/13/2019 21:30	3.067	93.5	6.734	12.27	29.09	0
5/13/2019 21:45	2.701	88.5	10.12	12.7	29.09	0
5/13/2019 22:00	2.04	105.3	7.918	13.16	29.1	0
5/13/2019 22:15	1.499	108.9	8.1	12.77	29.1	0
5/13/2019 22:30	1.675	81	11.38	12.63	29.1	0
5/13/2019 22:45	4.394	162.6	86.6	12.02	29.1	0
5/13/2019 23:00	6.835	216	10.45	11.53	29.1	0
5/13/2019 23:15	7.358	211.2	3.326	11.38	29.1	0
5/13/2019 23:30	6.678	189.6	15.94	11.59	29.1	0
5/13/2019 23:45	3.415	112.3	24.99	10.49	29.1	0
5/14/2019 0:00	4.311	110.9	9	10.21	29.09	0
5/14/2019 0:15	4.748	140.1	5.573	10.66	29.09	0

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5/14/2019 0:30	6.334	145.4	5.846	10.66	29.09	0
5/14/2019 0:45	6.727	157.6	9.8	10.36	29.09	0
5/14/2019 1:00	4.256	169.5	9.77	10.54	29.1	0
5/14/2019 1:15	3.767	181.5	9.42	10.9	29.1	0
5/14/2019 1:30	2.353	129.4	29.63	10.61	29.1	0
5/14/2019 1:45	3.548	100.4	21.85	10.63	29.1	0
5/14/2019 2:00	2.429	154.2	9.23	11.08	29.08	0
5/14/2019 2:15	2.543	143.7	5.997	11.22	29.08	0
5/14/2019 2:30	2.92	102	25.67	10.83	29.08	0
5/14/2019 2:45	2.267	43.93	26.88	10.39	29.08	0
5/14/2019 3:00	6.107	58.06	17.04	10.69	29.01	0
5/14/2019 3:15	11.26	245.7	91.1	9.99	29.01	0
5/14/2019 3:30	9.81	262.4	32.13	10.48	29.01	0
5/14/2019 3:45	2.084	59.09	54.91	10.03	29.01	0
5/14/2019 4:00	3.117	59.51	13.91	9.85	29.07	0
5/14/2019 4:15	3.198	154.5	40.74	10.15	29.07	0
5/14/2019 4:30	2.86	201.5	12.49	10.16	29.07	0
5/14/2019 4:45	5.26	179.7	9.23	10.01	29.07	0
5/14/2019 5:00	4.238	166.2	15.31	10.04	29.11	0
5/14/2019 5:15	5.526	160.2	14.32	10.17	29.11	0
5/14/2019 5:30	4.838	130.4	11.84	10.04	29.11	0
5/14/2019 5:45	6.523	144.4	8.06	10.06	29.11	0
5/14/2019 6:00	6.729	140.9	8.8	10.14	29.12	0
5/14/2019 6:15	6.372	143.7	7.793	10.32	29.12	0
5/14/2019 6:30	6.693	141.3	8.71	10.38	29.12	0
5/14/2019 6:45	6.496	147.4	9.06	10.42	29.12	0
5/14/2019 7:00	6.993	154.6	7.058	10.59	29.12	0
5/14/2019 7:15	6.147	151.2	5.716	10.7	29.12	0
5/14/2019 7:30	5.568	149.8	8.14	10.67	29.12	0
5/14/2019 7:45	6.091	153.2	8.75	10.55	29.12	0
5/14/2019 8:00	7.033	166.3	14.93	10.49	29.12	0.01
5/14/2019 8:15	6.563	148.6	11.04	10.27	29.12	0.01
5/14/2019 8:30	5.223	113.5	14.63	10.37	29.12	0.01
5/14/2019 8:45	6.54	113.7	10.16	10.38	29.12	0
5/14/2019 9:00	5.47	127.5	13.85	10.69	29.13	0.01
5/14/2019 9:15	5.888	170.4	20.77	11	29.13	0.01
5/14/2019 9:30	6.571	203.3	7.298	11	29.13	0
5/14/2019 9:45	5.665	207.3	11.78	10.98	29.13	0.02
5/14/2019 10:00	4.526	202.1	12.57	11.08	29.15	0
5/14/2019 10:15	4.479	159.6	18.88	11.44	29.15	0.01
5/14/2019 10:30	5.259	148.5	9.85	11.69	29.15	0
5/14/2019 10:45	6.058	136.6	15.95	12.1	29.15	0
5/14/2019 11:00	6.98	153.9	13	12.42	29.16	0
5/14/2019 11:15	8.73	165.3	14.39	12.44	29.16	0
5/14/2019 11:30	8.11	158.3	12.81	12.53	29.16	0.01
5/14/2019 11:45	7.912	150.8	11.08	12.7	29.16	0
5/14/2019 12:00	8.08	172.9	14.67	12.67	29.15	0.01

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5/14/2019 12:15	6.939	169.1	16.46	12.89	29.15	0
5/14/2019 12:30	7.317	152.8	9.54	13.01	29.15	0
5/14/2019 12:45	7.476	151.3	9.67	13.1	29.15	0.01
5/14/2019 13:00	7.619	152.3	12.74	13.21	29.14	0
5/14/2019 13:15	6.412	162.1	15.47	13.53	29.14	0
5/14/2019 13:30	6.104	157.7	14.49	13.52	29.14	0
5/14/2019 13:45	8.37	164.4	11.89	13.53	29.14	0
5/14/2019 14:00	9.04	181.6	10.8	13.32	29.15	0
5/14/2019 14:15	5.194	184.3	16.14	13.55	29.15	0
5/14/2019 14:30	3.169	162.5	21.32	14.17	29.15	0
5/14/2019 14:45	12.19	179.1	10.63	13.67	29.15	0
5/14/2019 15:00	9.68	193.9	12.06	13.9	29.15	0
5/14/2019 15:15	8.71	190.2	15.56	13.91	29.15	0
5/14/2019 15:30	8.41	218.5	6.442	13.38	29.15	0.01
5/14/2019 15:45	6.723	223.2	16.24	13.08	29.15	0.01
5/14/2019 16:00	4.867	255.5	12.66	12.94	29.16	0
5/14/2019 16:15	2.098	210.3	44.63	12.96	29.16	0
5/14/2019 16:30	3.531	162.7	18.31	12.87	29.16	0
5/14/2019 16:45	3.471	178.7	12.49	12.84	29.16	0.01
5/14/2019 17:00	3.48	166.9	14.51	13.33	29.16	0
5/14/2019 17:15	5.633	165.1	15.07	13.35	29.16	0
5/14/2019 17:30	8.76	159.2	12.36	12.87	29.16	0
5/14/2019 17:45	6.767	157.6	11.58	12.9	29.16	0
5/14/2019 18:00	5.045	141.8	16.64	12.82	29.16	0
5/14/2019 18:15	4.842	115.8	8.87	12.58	29.16	0
5/14/2019 18:30	4.258	111.9	9.83	12.47	29.16	0
5/14/2019 18:45	6.491	141.6	41.61	12.43	29.16	0.02
5/14/2019 19:00	6.706	179.8	11.24	12.35	29.16	0.02
5/14/2019 19:15	6.399	173.9	9.64	12.36	29.16	0
5/14/2019 19:30	6.695	145.1	20.12	12.09	29.16	0
5/14/2019 19:45	3.403	115.2	6.167	11.78	29.16	0
5/14/2019 20:00	3.382	116.5	4.984	11.66	29.19	0
5/14/2019 20:15	5.554	107.1	8.24	11.76	29.19	0
5/14/2019 20:30	4.957	103.3	13.22	11.71	29.19	0.04
5/14/2019 20:45	5.152	102.8	78.49	11.7	29.19	0.08
5/14/2019 21:00	9.73	258.9	14.01	11.34	29.2	0.16
5/14/2019 21:15	7.183	250.3	10.75	11.22	29.2	0.01
5/14/2019 21:30	4.842	262.2	15.71	11.17	29.2	0
5/14/2019 21:45	1.338	255	10.77	11.09	29.2	0
5/14/2019 22:00	0.995	52.91	27.17	10.86	29.19	0
5/14/2019 22:15	1.239	99.9	19.73	10.8	29.19	0
5/14/2019 22:30	1.973	158.1	18.95	10.98	29.19	0
5/14/2019 22:45	2.007	151.8	10.17	10.93	29.19	0
5/14/2019 23:00	3.527	165	23.64	10.99	29.18	0
5/14/2019 23:15	2.258	124.6	18.67	10.69	29.18	0
5/14/2019 23:30	5.11	155.7	11.45	10.73	29.18	0
5/14/2019 23:45	5.511	131.9	8.7	10.52	29.18	0

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5/15/2019 0:00	4.444	118.9	6.963	10.41	29.2	0
5/15/2019 0:15	2.662	104.5	16.27	10.32	29.2	0
5/15/2019 0:30	4.039	85.2	5.688	10.23	29.2	0
5/15/2019 0:45	4.345	100.2	9.24	10.13	29.2	0.01
5/15/2019 1:00	2.591	76.01	14.89	10.19	29.18	0
5/15/2019 1:15	1.974	69.91	3.388	10.16	29.18	0
5/15/2019 1:30	2.027	61.15	2.607	10.18	29.18	0
5/15/2019 1:45	1.589	85.5	21.4	10.28	29.18	0
5/15/2019 2:00	2.673	121.3	23.77	10.12	29.15	0
5/15/2019 2:15	3.343	147.5	5.611	10.14	29.15	0
5/15/2019 2:30	3.005	168.6	10.13	10.23	29.15	0
5/15/2019 2:45	1.691	85.1	63.68	10.14	29.15	0
5/15/2019 3:00	2.685	7.763	8.26	9.96	29.14	0
5/15/2019 3:15	3.742	22.25	5.541	9.88	29.14	0
5/15/2019 3:30	3.401	19.03	4.128	9.65	29.14	0
5/15/2019 3:45	5.32	11.12	6.551	9.3	29.14	0
5/15/2019 4:00	5.812	13.77	10.43	9.17	29.11	0
5/15/2019 4:15	6.716	347.8	16.36	9.33	29.11	0
5/15/2019 4:30	5.662	352.7	28.19	9.23	29.11	0
5/15/2019 4:45	6.623	25.73	11.1	8.99	29.11	0
5/15/2019 5:00	5.444	22.75	16.34	9.48	29.06	0
5/15/2019 5:15	5.025	20.39	12.64	9.61	29.06	0
5/15/2019 5:30	4.964	1.208	16.68	9.7	29.06	0
5/15/2019 5:45	6.448	11.19	14.91	9.97	29.06	0
5/15/2019 6:00	4.852	54.79	17.58	10.09	29.04	0
5/15/2019 6:15	4.963	29.9	18.4	10.12	29.04	0
5/15/2019 6:30	1.795	343.3	44.61	10.73	29.04	0
5/15/2019 6:45	2.393	3.902	15.1	10.37	29.04	0
5/15/2019 7:00	4.298	356.1	13.94	10.91	29.04	0
5/15/2019 7:15	4.308	14.89	12.18	11.53	29.04	0
5/15/2019 7:30	1.82	30.71	50.86	12.46	29.04	0
5/15/2019 7:45	3.897	244	18.48	12.52	29.04	0
5/15/2019 8:00	3.886	302.8	79.71	12.4	29.02	0
5/15/2019 8:15	3.77	22.03	23.15	12.86	29.02	0
5/15/2019 8:30	6.164	12.39	30.67	13.22	29.02	0
5/15/2019 8:45	8.52	13.61	12.84	12.82	29.02	0
5/15/2019 9:00	9.87	15.34	10.93	12.87	28.98	0
5/15/2019 9:15	6.92	9.55	18.35	13.65	28.98	0
5/15/2019 9:30	5.986	15.02	15.64	13.85	28.98	0
5/15/2019 9:45	4.902	19.58	18.8	14.13	28.98	0
5/15/2019 10:00	6.217	3.029	34.66	14.22	28.97	0
5/15/2019 10:15	4.905	295.6	21.93	14.84	28.97	0
5/15/2019 10:30	4.03	316.9	25.05	15.49	28.97	0
5/15/2019 10:45	6.231	357.1	24.24	16.14	28.97	0
5/15/2019 11:00	9.45	354.4	15.7	16.82	28.94	0
5/15/2019 11:15	8.04	352.7	29.47	17.67	28.94	0
5/15/2019 11:30	9.74	10.91	12.56	17.56	28.94	0

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5/15/2019 11:45	7.951	4.437	15.43	18.25	28.94	0
5/15/2019 12:00	8.03	2.682	16.35	18.88	28.89	0
5/15/2019 12:15	7.825	13.29	14.02	19.25	28.89	0
5/15/2019 12:30	6.323	6.968	12.89	19.24	28.89	0
5/15/2019 12:45	6.365	15.93	16.77	19.08	28.89	0
5/15/2019 13:00	3.398	31.58	29.52	19.17	28.88	0
5/15/2019 13:15	4.058	76.63	28.52	19.57	28.88	0
5/15/2019 13:30	10.66	114.8	24.3	20.36	28.88	0
5/15/2019 13:45	9.01	106.4	23.74	20.22	28.88	0
5/15/2019 14:00	11.24	101.9	15.21	20.01	28.85	0
5/15/2019 14:15	9.87	93.4	19.33	19.95	28.85	0
5/15/2019 14:30	10.64	83.1	18.13	20.05	28.85	0
5/15/2019 14:45	12.31	92.8	16.61	20.05	28.85	0
5/15/2019 15:00	11.14	108.6	13.01	19.63	28.82	0
5/15/2019 15:15	12.32	117.1	9.52	19.16	28.82	0
5/15/2019 15:30	13.05	128.2	9.56	18.16	28.82	0
5/15/2019 15:45	13.34	129.2	10.07	17.08	28.82	0
5/15/2019 16:00	11.54	145.2	7.721	16.16	28.83	0.01
5/15/2019 16:15	12.2	142.2	7.065	16.13	28.83	0
5/15/2019 16:30	12.48	137.8	6.967	16.24	28.83	0.01
5/15/2019 16:45	6.085	83.7	40.15	15.44	28.83	0
5/15/2019 17:00	4.422	32.73	10.37	14.68	28.84	0
5/15/2019 17:15	3.914	22.24	6.873	14.68	28.84	0
5/15/2019 17:30	3.342	11.46	13.1	14.58	28.84	0
5/15/2019 17:45	2.495	1.32	12.58	14.64	28.84	0
5/15/2019 18:00	3.731	357.5	12.14	14.72	28.83	0
5/15/2019 18:15	4.751	2.036	10.72	14.61	28.83	0
5/15/2019 18:30	4.872	352.9	15.15	14.63	28.83	0
5/15/2019 18:45	4.027	333.4	6.967	14.01	28.83	0.01
5/15/2019 19:00	4.578	0.49	10.29	13.48	28.81	0
5/15/2019 19:15	5.884	9.57	8.57	13.13	28.81	0
5/15/2019 19:30	5.244	8.63	8.87	13.07	28.81	0
5/15/2019 19:45	5.581	2.937	12.24	13.09	28.81	0
5/15/2019 20:00	5.712	7.953	9.24	13.07	28.81	0
5/15/2019 20:15	6.444	10.4	7.368	12.94	28.81	0
5/15/2019 20:30	5.217	8.21	8.04	13.02	28.81	0
5/15/2019 20:45	4.396	2.363	12.04	13	28.81	0
5/15/2019 21:00	0.633	18.27	12.74	12.99	28.82	0
5/15/2019 21:15	1.173	147.2	69.2	13.01	28.82	0
5/15/2019 21:30	1.155	147.2	5.352	12.75	28.82	0
5/15/2019 21:45	1.506	64.55	37.38	12.48	28.82	0
5/15/2019 22:00	3.989	16.35	7.908	12.51	28.82	0
5/15/2019 22:15	2.869	30.45	5.687	12.22	28.82	0
5/15/2019 22:30	2.108	40.17	10.99	12.35	28.82	0
5/15/2019 22:45	1.538	75.01	5.086	12.21	28.82	0
5/15/2019 23:00	2.495	84	11.68	12.08	28.79	0
5/15/2019 23:15	2.003	67.43	10.12	12.05	28.79	0



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5/15/2019 23:30	1.874	79.31	14.33	12.26	28.79	0
5/15/2019 23:45	3.04	53.23	17.19	11.85	28.79	0
5/16/2019 0:00	3.279	27.59	6.863	11.52	28.79	0
5/16/2019 0:15	0.181	22.95	0.337	11.73	28.79	0
5/16/2019 0:30	1.942	125	55.3	11.99	28.79	0
5/16/2019 0:45	2.567	66.29	33.23	11.34	28.79	0
5/16/2019 1:00	3.027	100.8	21.31	10.76	28.76	0
5/16/2019 1:15	3.042	110.8	7.478	11.28	28.76	0
5/16/2019 1:30	1.731	71.82	25.36	11.27	28.76	0
5/16/2019 1:45	7.474	199.8	7.495	10.68	28.76	0
5/16/2019 2:00	3.779	149.1	93.9	10.79	28.77	0
5/16/2019 2:15	0.8	28.35	0.596	10.23	28.77	0
5/16/2019 2:30	2.346	89.9	14.1	10.35	28.77	0
5/16/2019 2:45	2.868	52.86	9.69	10.22	28.77	0.01
5/16/2019 3:00	0.159	62.54	12.85	10.17	28.75	0
5/16/2019 3:15	1.946	112	37.3	10.19	28.75	0
5/16/2019 3:30	5.439	22.51	7.899	10.35	28.75	0
5/16/2019 3:45	6.046	14.94	12.62	10.47	28.75	0
5/16/2019 4:00	5.21	21.38	10.1	10.42	28.71	0
5/16/2019 4:15	5.925	13.51	7.195	10.32	28.71	0
5/16/2019 4:30	5.998	17.01	7.101	10.31	28.71	0
5/16/2019 4:45	5.971	15.05	11.77	10.43	28.71	0
5/16/2019 5:00	3.691	15.08	20.5	10.35	28.72	0
5/16/2019 5:15	1.052	305.6	7.496	10.19	28.72	0
5/16/2019 5:30	1.342	147.1	43.49	10.38	28.72	0
5/16/2019 5:45	1.686	119	24.59	10.36	28.72	0
5/16/2019 6:00	1.736	94.4	19.54	10.37	28.73	0
5/16/2019 6:15	0.768	103.6	31.26	10.5	28.73	0
5/16/2019 6:30	1.808	31.45	18.22	10.57	28.73	0
5/16/2019 6:45	0.692	342.7	36.71	10.84	28.73	0
5/16/2019 7:00	2.123	200.8	19.03	11.29	28.71	0
5/16/2019 7:15	3.404	201.7	17.14	11.15	28.71	0
5/16/2019 7:30	4.008	190.9	21.41	11	28.71	0
5/16/2019 7:45	6.134	167.8	6.733	11.18	28.71	0
5/16/2019 8:00	2.59	142.1	23.16	11.27	28.75	0
5/16/2019 8:15	3.984	136.8	10.77	11.37	28.75	0
5/16/2019 8:30	2.677	151.7	52.17	11.44	28.75	0
5/16/2019 8:45	3.493	153.5	26.19	11.54	28.75	0
5/16/2019 9:00	3.383	91.4	10.92	11.59	28.77	0
5/16/2019 9:15	3.446	99	9.91	11.68	28.77	0
5/16/2019 9:30	4.575	86.7	9.88	11.84	28.77	0
5/16/2019 9:45	4.21	94.7	11.16	12.24	28.77	0
5/16/2019 10:00	4.013	99.9	12.57	12.31	28.76	0
5/16/2019 10:15	2.924	90.8	20.81	12.5	28.76	0
5/16/2019 10:30	2.648	54.77	10.53	12.67	28.76	0
5/16/2019 10:45	1.575	68.69	12.66	12.89	28.76	0
5/16/2019 11:00	2.339	94	29.36	13.03	28.76	0.01

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5/16/2019 11:15	2.237	153.4	23.35	13.3	28.76	0
5/16/2019 11:30	2.877	137.6	24.64	13.39	28.76	0.01
5/16/2019 11:45	2.42	108	14.2	13.39	28.76	0.01
5/16/2019 12:00	2.828	100.3	18.91	13.57	28.77	0
5/16/2019 12:15	3.407	112.9	9.53	13.6	28.77	0.01
5/16/2019 12:30	3.265	106.4	17.26	13.73	28.77	0.01
5/16/2019 12:45	2.778	107.7	26.5	13.79	28.77	0.02
5/16/2019 13:00	2.108	142.7	12.14	13.86	28.78	0.01
5/16/2019 13:15	2.422	140.8	10.97	13.97	28.78	0.01
5/16/2019 13:30	2.744	139.4	10.12	13.93	28.78	0.01
5/16/2019 13:45	3.824	157.6	11.2	13.98	28.78	0.02
5/16/2019 14:00	4.247	187.1	9.86	13.98	28.79	0.02
5/16/2019 14:15	3.189	173.2	22.54	14.02	28.79	0.01
5/16/2019 14:30	2.421	141.8	5.869	14.16	28.79	0.01
5/16/2019 14:45	3.04	144.1	8.38	14.21	28.79	0.01
5/16/2019 15:00	3.169	144.4	12.89	14.31	28.78	0.01
5/16/2019 15:15	3.297	132.4	9.64	14.41	28.78	0
5/16/2019 15:30	3.389	128.6	8.54	14.66	28.78	0
5/16/2019 15:45	4.079	100.5	21.13	14.47	28.78	0
5/16/2019 16:00	3.992	79.55	9.64	14.4	28.77	0
5/16/2019 16:15	4.115	83.5	8.74	14.42	28.77	0
5/16/2019 16:30	3.3	101.8	13.23	14.64	28.77	0
5/16/2019 16:45	3.552	110.7	13.1	14.8	28.77	0
5/16/2019 17:00	3.701	93.8	11.14	14.63	28.79	0
5/16/2019 17:15	3.851	99.1	19.11	14.56	28.79	0
5/16/2019 17:30	3.109	112	29.81	14.69	28.79	0
5/16/2019 17:45	0.149	184.6	7.869	14.57	28.79	0.03
5/16/2019 18:00	2.396	195.8	2.994	14.2	28.78	0.11
5/16/2019 18:15	2.048	197.2	5.397	13.99	28.78	0.13
5/16/2019 18:30	2.77	245.9	70.68	13.93	28.78	0.03
5/16/2019 18:45	1.941	234.4	43.97	14.03	28.78	0
5/16/2019 19:00	2.162	202.1	18.09	14.06	28.79	0
5/16/2019 19:15	2.005	195.3	12.37	14	28.79	0
5/16/2019 19:30	7.128	218.6	16.43	13.84	28.79	0
5/16/2019 19:45	8.69	229	9.85	13.63	28.79	0
5/16/2019 20:00	7.079	229	9.9	13.39	28.81	0
5/16/2019 20:15	9.43	229.8	9.29	13.13	28.81	0
5/16/2019 20:30	10.49	217.8	10.27	12.88	28.81	0
5/16/2019 20:45	9.47	216.5	10.04	12.71	28.81	0
5/16/2019 21:00	8.72	195.1	9.92	12.55	28.83	0
5/16/2019 21:15	9.94	188.9	10.54	12.35	28.83	0.01
5/16/2019 21:30	9.13	189.4	9.04	12.13	28.83	0
5/16/2019 21:45	8.04	178.9	9.49	11.93	28.83	0.01
5/16/2019 22:00	7.669	188.2	9.08	11.89	28.85	0.01
5/16/2019 22:15	6.414	176.8	7.389	11.76	28.85	0.02
5/16/2019 22:30	7.323	174.9	10.36	11.77	28.85	0.02
5/16/2019 22:45	9.75	180.7	8.41	11.81	28.85	0.01

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5/16/2019 23:00	10.48	177.4	8.93	11.73	28.86	0.02
5/16/2019 23:15	9.89	172	8.68	11.66	28.86	0.02
5/16/2019 23:30	9.56	173	9.01	11.59	28.86	0.02
5/16/2019 23:45	8.56	177.9	13.3	11.54	28.86	0.02
5/17/2019 0:00	8.9	176.8	10.99	11.45	28.85	0.01
5/17/2019 0:15	9.32	169	9.46	11.44	28.85	0.01
5/17/2019 0:30	9.42	170.7	9.06	11.4	28.85	0.01
5/17/2019 0:45	9.12	177.3	9.83	11.39	28.85	0
5/17/2019 1:00	8.52	174.1	12.42	11.41	28.88	0.01
5/17/2019 1:15	10.97	179.3	11.9	11.39	28.88	0.01
5/17/2019 1:30	9.52	181	11.17	11.28	28.88	0
5/17/2019 1:45	11.19	188.1	8.79	11.26	28.88	0
5/17/2019 2:00	12.43	185.8	9.51	11.24	28.87	0
5/17/2019 2:15	9.02	193.3	10.89	11.12	28.87	0.01
5/17/2019 2:30	6.742	192.2	12.26	11.08	28.87	0
5/17/2019 2:45	6.143	190.6	14.01	11.06	28.87	0.01
5/17/2019 3:00	5.893	184.7	15.98	10.95	28.92	0
5/17/2019 3:15	6.798	168.1	8.15	10.81	28.92	0.01
5/17/2019 3:30	8	199.1	19.61	10.82	28.92	0
5/17/2019 3:45	11.75	198	11.43	10.69	28.92	0
5/17/2019 4:00	11.32	182.3	10	10.43	28.92	0
5/17/2019 4:15	10.16	182	10.48	10.36	28.92	0
5/17/2019 4:30	9.75	179.2	11.49	10.17	28.92	0.01
5/17/2019 4:45	10.03	184.2	14.41	10.13	28.92	0.01
5/17/2019 5:00	8.7	180.7	13.16	10.06	28.94	0
5/17/2019 5:15	9.85	178.5	13.8	9.98	28.94	0
5/17/2019 5:30	8.65	166.8	10.38	9.89	28.94	0.01
5/17/2019 5:45	8.97	174.4	14.83	9.84	28.94	0.01
5/17/2019 6:00	9.89	187.7	10.45	9.75	28.97	0.01
5/17/2019 6:15	10.47	190.2	9.18	9.67	28.97	0
5/17/2019 6:30	9.65	189.6	12.97	9.59	28.97	0
5/17/2019 6:45	10.7	190.1	10.91	9.65	28.97	0
5/17/2019 7:00	9.96	194.4	10.72	9.75	29	0
5/17/2019 7:15	11.75	191.5	13.12	9.8	29	0
5/17/2019 7:30	12.77	205.8	9.58	9.87	29	0
5/17/2019 7:45	14.33	213.6	9.93	9.81	29	0
5/17/2019 8:00	12.84	209.4	9.11	9.8	29.04	0
5/17/2019 8:15	10.8	195.6	8.01	9.95	29.04	0
5/17/2019 8:30	10.47	188.5	11.39	10.21	29.04	0
5/17/2019 8:45	8.9	203.4	15.27	10.59	29.04	0
5/17/2019 9:00	8.95	195.9	11.73	10.69	29.06	0
5/17/2019 9:15	9.65	194.9	15	10.62	29.06	0
5/17/2019 9:30	10.16	193.1	9.77	10.53	29.06	0
5/17/2019 9:45	10.02	195.4	9.08	10.63	29.06	0
5/17/2019 10:00	10.55	194.3	9.86	10.74	29.07	0
5/17/2019 10:15	12.21	207.2	14.86	10.97	29.07	0
5/17/2019 10:30	13.11	208.8	9.85	11.19	29.07	0

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5/17/2019 10:45	13.21	209.8	10.81	11.73	29.07	0
5/17/2019 11:00	18.15	223	9.65	11.5	29.1	0
5/17/2019 11:15	12.88	218	14.96	11.51	29.1	0
5/17/2019 11:30	12.62	221	11.55	11.58	29.1	0
5/17/2019 11:45	12.82	219.8	17.31	11.86	29.1	0
5/17/2019 12:00	11.18	210.2	13.26	12.24	29.12	0
5/17/2019 12:15	11.78	223.7	19.4	12.46	29.12	0
5/17/2019 12:30	14.15	217.1	11.5	13.05	29.12	0.01
5/17/2019 12:45	12.65	218.2	11.31	13.51	29.12	0
5/17/2019 13:00	12.49	232.4	16.88	14.34	29.12	0
5/17/2019 13:15	12.55	253.2	11.87	13.84	29.12	0
5/17/2019 13:30	11.65	245	16.14	14.67	29.12	0
5/17/2019 13:45	12.58	235.7	14.1	14.76	29.12	0
5/17/2019 14:00	9.95	224.3	13.04	14.96	29.12	0
5/17/2019 14:15	11.89	222.5	17.15	14.8	29.12	0
5/17/2019 14:30	14.29	207.7	11.63	15.09	29.12	0
5/17/2019 14:45	10.71	226.7	20.37	15.26	29.12	0
5/17/2019 15:00	12.86	205.6	12.4	15.17	29.1	0
5/17/2019 15:15	14.26	228.7	13.99	15.12	29.1	0
5/17/2019 15:30	15.95	222.3	11.59	15.13	29.1	0
5/17/2019 15:45	15.07	213.7	11.15	14.95	29.1	0
5/17/2019 16:00	14.65	224.6	7.665	14.51	29.11	0
5/17/2019 16:15	10.57	218.1	14.68	14.45	29.11	0
5/17/2019 16:30	12.43	222.9	9.69	14.68	29.11	0
5/17/2019 16:45	12.33	220.4	9.88	14.67	29.11	0
5/17/2019 17:00	13.75	246.5	8.7	14.66	29.13	0
5/17/2019 17:15	10.63	227.5	9.69	14.48	29.13	0
5/17/2019 17:30	13.67	240.2	9.61	14.04	29.13	0
5/17/2019 17:45	11.19	243.5	7.575	13.88	29.13	0
5/17/2019 18:00	9.27	238.2	8.31	13.86	29.13	0
5/17/2019 18:15	8.13	227.6	11.46	13.81	29.13	0
5/17/2019 18:30	8.3	235.9	9.9	13.71	29.13	0
5/17/2019 18:45	7.14	235.8	9.9	13.66	29.13	0
5/17/2019 19:00	7.597	240.4	7.939	13.44	29.15	0
5/17/2019 19:15	4.821	240.1	10.18	13.29	29.15	0
5/17/2019 19:30	4.341	241.9	12.92	13.2	29.15	0
5/17/2019 19:45	5.551	233.2	7.132	12.97	29.15	0
5/17/2019 20:00	6.765	233.7	6.256	12.72	29.15	0
5/17/2019 20:15	5.941	224.1	7.57	12.56	29.15	0
5/17/2019 20:30	5.091	228.7	9.11	12.42	29.15	0
5/17/2019 20:45	6.167	244.9	7.48	12.26	29.15	0
5/17/2019 21:00	4.006	254.6	6.84	12.09	29.13	0
5/17/2019 21:15	5.462	262.1	5.892	11.79	29.13	0
5/17/2019 21:30	5.717	265.5	7.974	11.54	29.13	0
5/17/2019 21:45	5.466	265	3.718	11.47	29.13	0
5/17/2019 22:00	3.556	262.5	3.621	11.36	29.15	0
5/17/2019 22:15	2.209	243.1	11.2	11.36	29.15	0

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5/17/2019 22:30	1.034	179.6	56.54	10.99	29.15	0
5/17/2019 22:45	1.76	103.3	9.77	10.73	29.15	0
5/17/2019 23:00	4.015	92.3	7.173	10.4	29.13	0
5/17/2019 23:15	4.117	102	5.526	10.42	29.13	0
5/17/2019 23:30	3.51	117	5.686	10.72	29.13	0
5/17/2019 23:45	2.815	124.2	6.623	10.66	29.13	0
5/18/2019 0:00	2.805	132.4	10.26	10.65	29.14	0
5/18/2019 0:15	2.777	150.4	11.09	10.66	29.14	0
5/18/2019 0:30	2.858	129.6	4.424	10.55	29.14	0
5/18/2019 0:45	3.079	137.7	7.221	10.38	29.14	0
5/18/2019 1:00	2.406	176.4	20.84	10.49	29.11	0
5/18/2019 1:15	2.887	198.2	15.15	10.47	29.11	0
5/18/2019 1:30	2.392	198	13.89	10.22	29.11	0
5/18/2019 1:45	1.483	191.4	2.147	10.11	29.11	0
5/18/2019 2:00	1.103	69.82	32.71	9.68	29.1	0
5/18/2019 2:15	1.664	54.98	0.071	9.71	29.1	0
5/18/2019 2:30	0.79	55.92	0.394	9.65	29.1	0
5/18/2019 2:45	1.729	154.6	71.48	9.93	29.1	0
5/18/2019 3:00	2.456	152.4	47.1	9.98	29.1	0
5/18/2019 3:15	1.848	80.9	7.409	9.37	29.1	0
5/18/2019 3:30	2.543	90.1	3.161	9.62	29.1	0
5/18/2019 3:45	3.648	96.5	3.044	9.42	29.1	0
5/18/2019 4:00	4.711	83.1	5.244	8.94	29.08	0
5/18/2019 4:15	4.775	79.44	3.795	8.79	29.08	0
5/18/2019 4:30	3.283	61.84	15	8.93	29.08	0
5/18/2019 4:45	4.921	41.82	2.058	8.98	29.08	0
5/18/2019 5:00	5.146	39.75	5.065	9.01	29.04	0
5/18/2019 5:15	4.241	40.12	11.63	8.92	29.04	0
5/18/2019 5:30	2.085	56.71	32.7	9.49	29.04	0
5/18/2019 5:45	1.676	352.1	56.96	9.68	29.04	0
5/18/2019 6:00	2.289	258.2	16.83	9.7	29.05	0
5/18/2019 6:15	1.285	286.3	18.8	9.25	29.05	0
5/18/2019 6:30	3.383	9.73	9.16	10.05	29.05	0
5/18/2019 6:45	2.698	16.09	13.31	11.02	29.05	0
5/18/2019 7:00	0.461	26.1	7.226	11.65	29.05	0
5/18/2019 7:15	0.83	288.7	13.61	11.93	29.05	0
5/18/2019 7:30	0.838	347.8	25.33	12.72	29.05	0
5/18/2019 7:45	2.322	353	19.69	12.47	29.05	0
5/18/2019 8:00	1.475	353.5	17.64	12.98	29.04	0
5/18/2019 8:15	1.781	28.69	58.44	13.68	29.04	0
5/18/2019 8:30	2.129	345.8	34.94	13.84	29.04	0
5/18/2019 8:45	2.519	55.77	66.29	15	29.04	0
5/18/2019 9:00	4.159	151.7	31.47	15.12	28.99	0
5/18/2019 9:15	4.658	189.1	35.86	15.41	28.99	0
5/18/2019 9:30	5.236	165.6	25.32	15.91	28.99	0
5/18/2019 9:45	2.323	116.5	88.3	16.05	28.99	0
5/18/2019 10:00	3.702	170.5	58.11	16.48	28.99	0

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5/18/2019 10:15	3.533	180	36.91	16.54	28.99	0
5/18/2019 10:30	4.997	189.1	67.9	16.76	28.99	0
5/18/2019 10:45	3.872	262	24.34	17.15	28.99	0
5/18/2019 11:00	2.087	302.3	43.95	17.64	28.97	0
5/18/2019 11:15	3.123	285.1	43.6	17.79	28.97	0
5/18/2019 11:30	3.436	55.04	41.66	17.91	28.97	0
5/18/2019 11:45	5.432	276.4	30.23	18.12	28.97	0
5/18/2019 12:00	6.286	258.3	29.77	18.41	28.94	0
5/18/2019 12:15	4.725	189.7	36.79	18.45	28.94	0
5/18/2019 12:30	5.862	313.1	14.76	19.03	28.94	0
5/18/2019 12:45	5.338	339.5	46.39	19.25	28.94	0
5/18/2019 13:00	7.398	337.1	17.68	19.28	28.92	0
5/18/2019 13:15	7.873	327.6	33.2	19.32	28.92	0
5/18/2019 13:30	7.934	300.2	17.51	19.47	28.92	0
5/18/2019 13:45	10.68	287	13.97	19.62	28.92	0
5/18/2019 14:00	11.84	293.8	11.02	19.82	28.9	0
5/18/2019 14:15	12.37	289.5	10.41	19.69	28.9	0
5/18/2019 14:30	13.85	277.9	11.38	19.21	28.9	0
5/18/2019 14:45	13.05	297.5	8.4	19.45	28.9	0
5/18/2019 15:00	12.53	297.7	11.76	19.65	28.86	0
5/18/2019 15:15	12.69	303.4	9.89	19.88	28.86	0
5/18/2019 15:30	13	303.9	9.14	20	28.86	0
5/18/2019 15:45	12.19	309.8	9.8	19.71	28.86	0
5/18/2019 16:00	12.12	328.4	14.41	19.83	28.86	0
5/18/2019 16:15	8.83	349.9	19.37	19.39	28.86	0
5/18/2019 16:30	9.94	344.2	14.14	19.12	28.86	0
5/18/2019 16:45	10.68	345.6	14.2	18.87	28.86	0
5/18/2019 17:00	8.91	334.2	13.65	18.75	28.85	0
5/18/2019 17:15	9.3	348.5	13.05	18.65	28.85	0
5/18/2019 17:30	12.29	352	11.88	18.43	28.85	0
5/18/2019 17:45	12.52	353.6	13.15	18.34	28.85	0
5/18/2019 18:00	8.58	15.83	14.23	18.13	28.81	0
5/18/2019 18:15	8.74	25.37	9.61	17.89	28.81	0
5/18/2019 18:30	9.03	18.67	10.74	17.68	28.81	0
5/18/2019 18:45	9.76	19.73	9.02	17.48	28.81	0
5/18/2019 19:00	9.95	18.76	10.55	17.38	28.83	0
5/18/2019 19:15	10.01	27.23	9.79	17.15	28.83	0
5/18/2019 19:30	9.75	20.56	9.96	17.12	28.83	0
5/18/2019 19:45	10.97	17.67	9.18	16.95	28.83	0
5/18/2019 20:00	11.96	22.01	8.61	16.84	28.83	0
5/18/2019 20:15	11.78	20.27	10.17	16.54	28.83	0
5/18/2019 20:30	10.1	20.63	13.72	16.31	28.83	0
5/18/2019 20:45	9.21	21.52	13.55	16.23	28.83	0
5/18/2019 21:00	6.937	35.88	30.62	16.15	28.83	0
5/18/2019 21:15	6.436	41.55	18.26	16.34	28.83	0
5/18/2019 21:30	4.471	34.75	8.02	15.83	28.83	0
5/18/2019 21:45	5.311	89.3	47.53	16.19	28.83	0

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5/18/2019 22:00	10.99	181.7	6.191	15.43	28.87	0
5/18/2019 22:15	9.89	167.6	13.23	15.21	28.87	0
5/18/2019 22:30	7.037	127.9	12.04	14.75	28.87	0
5/18/2019 22:45	6.257	126.4	11.18	14.54	28.87	0
5/18/2019 23:00	5.917	135.2	11.62	14.26	28.88	0
5/18/2019 23:15	5.345	161.1	16.37	14.14	28.88	0
5/18/2019 23:30	7.22	193.8	14.33	14.32	28.88	0
5/18/2019 23:45	2.953	206.6	10.71	14.02	28.88	0
5/19/2019 0:00	3.096	181.2	27.05	14.04	28.87	0
5/19/2019 0:15	1.73	185.7	30.71	13.95	28.87	0
5/19/2019 0:30	1.797	192	41.33	13.89	28.87	0
5/19/2019 0:45	1.968	191.5	22.16	13.88	28.87	0
5/19/2019 1:00	0.156	134.4	8.01	13.38	28.87	0
5/19/2019 1:15	2.265	106.4	8.92	13.29	28.87	0
5/19/2019 1:30	1.72	110.1	35.92	13.08	28.87	0
5/19/2019 1:45	2.176	163	6.109	13.45	28.87	0
5/19/2019 2:00	2.313	191.7	10.34	13.33	28.88	0
5/19/2019 2:15	2.028	222.5	18.08	13.36	28.88	0
5/19/2019 2:30	1.123	357.1	24.8	12.84	28.88	0
5/19/2019 2:45	1.698	14.42	8.22	12.71	28.88	0
5/19/2019 3:00	2.077	23.56	7.094	12.58	28.88	0
5/19/2019 3:15	0.835	45.92	5.656	12.42	28.88	0
5/19/2019 3:30	1.244	140	11.87	12.77	28.88	0
5/19/2019 3:45	3.355	165.9	17.05	12.38	28.88	0
5/19/2019 4:00	2.94	210	41.28	12.52	28.88	0
5/19/2019 4:15	4.64	283.8	19.19	11.61	28.88	0
5/19/2019 4:30	5.995	283.7	8.3	11.65	28.88	0
5/19/2019 4:45	5.245	288.4	5.641	11.65	28.88	0
5/19/2019 5:00	6.352	286.2	4.595	11.74	28.89	0
5/19/2019 5:15	6.817	289.8	6.038	11.69	28.89	0
5/19/2019 5:30	4.943	303.8	7.554	11.57	28.89	0
5/19/2019 5:45	0.951	99	75.44	11.36	28.89	0
5/19/2019 6:00	3.243	256.2	44.97	11.43	28.9	0
5/19/2019 6:15	3.572	291.1	14.06	11.51	28.9	0
5/19/2019 6:30	1.653	318.6	6.326	11.66	28.9	0
5/19/2019 6:45	2.991	185.3	22.39	11.62	28.9	0
5/19/2019 7:00	2.372	181.7	9.89	11.69	28.92	0
5/19/2019 7:15	2.164	198.7	9.36	11.83	28.92	0
5/19/2019 7:30	1.134	156.7	27.89	12.19	28.92	0
5/19/2019 7:45	0.921	185.9	20.98	12.5	28.92	0
5/19/2019 8:00	0.953	3.294	18.93	12.65	28.94	0
5/19/2019 8:15	0.949	14.44	13.66	12.69	28.94	0
5/19/2019 8:30	1.885	353.1	26.49	12.92	28.94	0
5/19/2019 8:45	1.084	309.9	49.53	13.35	28.94	0
5/19/2019 9:00	1.472	217.3	22.96	13.38	28.92	0
5/19/2019 9:15	1.875	318.4	48.74	13.7	28.92	0
5/19/2019 9:30	2.349	55.66	17.69	13.91	28.92	0

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5/19/2019 9:45	1.496	69.47	39.03	14.41	28.92	0
5/19/2019 10:00	2.758	231.4	28.98	14.61	28.94	0
5/19/2019 10:15	2.628	213.1	18.54	14.56	28.94	0
5/19/2019 10:30	1.991	144	73.06	15.75	28.94	0
5/19/2019 10:45	3.442	265.8	50.18	16.24	28.94	0
5/19/2019 11:00	3.29	208.3	43.22	16.32	28.93	0
5/19/2019 11:15	3.484	204.6	55.68	16.95	28.93	0
5/19/2019 11:30	4.348	252.2	31.37	17.3	28.93	0
5/19/2019 11:45	4.483	270.1	24.24	16.88	28.93	0
5/19/2019 12:00	3.41	289.4	52.03	18.16	28.93	0
5/19/2019 12:15	6.956	233.4	12.91	17.34	28.93	0
5/19/2019 12:30	5.929	267.3	36.54	17.33	28.93	0
5/19/2019 12:45	6.968	252.6	16.73	18.02	28.93	0
5/19/2019 13:00	8.03	223.5	17.81	18.56	28.92	0
5/19/2019 13:15	6.699	251.1	25.39	18.89	28.92	0
5/19/2019 13:30	7.969	293.9	13.83	17.87	28.92	0
5/19/2019 13:45	7.524	305.2	9.96	17.59	28.92	0
5/19/2019 14:00	7.171	305.8	16.5	17.81	28.92	0
5/19/2019 14:15	6.272	304.3	32.66	18.77	28.92	0
5/19/2019 14:30	5.555	287.9	33.4	19.04	28.92	0
5/19/2019 14:45	6.474	250.7	20.58	18.76	28.92	0
5/19/2019 15:00	7.712	263.2	24.85	19.3	28.9	0
5/19/2019 15:15	7.13	286.1	31.87	18.87	28.9	0
5/19/2019 15:30	6.824	287.9	21.84	19.29	28.9	0
5/19/2019 15:45	6.492	286.3	29.11	19.16	28.9	0
5/19/2019 16:00	8.45	304.1	20.78	18.67	28.89	0
5/19/2019 16:15	6.808	275.5	23.08	18.68	28.89	0
5/19/2019 16:30	6.338	274.4	15.34	18.64	28.89	0
5/19/2019 16:45	7.205	294.4	10.24	19.02	28.89	0
5/19/2019 17:00	5.9	283	13.07	19.33	28.89	0
5/19/2019 17:15	8.08	280	9.96	19.12	28.89	0
5/19/2019 17:30	8.26	301.4	14.79	19.06	28.89	0
5/19/2019 17:45	7.46	258.4	12.12	18.7	28.89	0
5/19/2019 18:00	7.406	258.6	9.48	18.21	28.9	0
5/19/2019 18:15	7.862	247.3	10.82	18.02	28.9	0
5/19/2019 18:30	6.109	243.8	8.02	17.88	28.9	0
5/19/2019 18:45	6.689	240.1	8.26	17.67	28.9	0
5/19/2019 19:00	7.631	237.8	6.067	17.43	28.93	0
5/19/2019 19:15	7.112	239.7	8.28	17.24	28.93	0
5/19/2019 19:30	7.975	236.2	8.92	16.78	28.93	0
5/19/2019 19:45	6.309	225.6	14.75	16.38	28.93	0
5/19/2019 20:00	4.444	178.7	23.43	16.07	28.96	0
5/19/2019 20:15	4.584	173.1	19.54	15.69	28.96	0
5/19/2019 20:30	5.186	174.9	19.3	15.38	28.96	0
5/19/2019 20:45	3.684	144.8	14.38	14.96	28.96	0
5/19/2019 21:00	1.148	102.6	40.97	14.73	28.96	0
5/19/2019 21:15	2.051	150.3	59.62	14.74	28.96	0



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5/19/2019 21:30	6.03	213.5	21.53	14.84	28.96	0
5/19/2019 21:45	8.25	232.5	11.65	14.72	28.96	0
5/19/2019 22:00	7.581	231.1	9.5	14.38	28.97	0
5/19/2019 22:15	6.673	244.4	8.49	14.04	28.97	0
5/19/2019 22:30	5.761	250.2	10.82	13.76	28.97	0
5/19/2019 22:45	5.58	246.7	14.69	13.63	28.97	0
5/19/2019 23:00	4.718	274.5	7.657	13.37	28.96	0
5/19/2019 23:15	3.474	280.8	10.59	13.33	28.96	0
5/19/2019 23:30	2.962	298.4	10.83	13.22	28.96	0
5/19/2019 23:45	3.419	298.9	14.92	13.09	28.96	0
5/20/2019 0:00	3.907	249	8.34	13.12	28.95	0
5/20/2019 0:15	2.807	223.6	24.32	13.01	28.95	0
5/20/2019 0:30	0.884	125.1	26.91	12.68	28.95	0
5/20/2019 0:45	2.661	133.8	15.63	12.39	28.95	0.01
5/20/2019 1:00	4.182	166.1	9.82	12.2	28.97	0
5/20/2019 1:15	3.714	154.4	13.38	12.08	28.97	0.01
5/20/2019 1:30	3.383	152	24.08	11.96	28.97	0.01
5/20/2019 1:45	3.852	157	17.19	11.78	28.97	0
5/20/2019 2:00	4.234	159.7	10.78	11.64	28.98	0.01
5/20/2019 2:15	5.225	165.4	9.16	11.57	28.98	0.01
5/20/2019 2:30	5.85	167.2	7.042	11.42	28.98	0
5/20/2019 2:45	6.633	176.5	5.332	11.38	28.98	0
5/20/2019 3:00	5.296	160.8	13.42	11.33	28.95	0
5/20/2019 3:15	6.52	165.1	8.34	11.26	28.95	0.01
5/20/2019 3:30	7.306	173.2	8.87	11.06	28.95	0
5/20/2019 3:45	6.659	167.3	9.27	10.95	28.95	0.01
5/20/2019 4:00	7.771	167.1	6.824	10.92	28.98	0.01
5/20/2019 4:15	5.937	154.2	11.37	10.87	28.98	0.01
5/20/2019 4:30	7.123	156.5	12.26	10.73	28.98	0.01
5/20/2019 4:45	8.44	143.8	4.921	10.52	28.98	0.01
5/20/2019 5:00	5.961	124.1	52.22	10.44	28.96	0.01
5/20/2019 5:15	7.942	147.9	6.584	10.4	28.96	0
5/20/2019 5:30	7.864	143.6	5.4	10.39	28.96	0.01
5/20/2019 5:45	7.684	143.1	5.695	10.44	28.96	0
5/20/2019 6:00	9.15	145	6.398	10.44	28.97	0
5/20/2019 6:15	8.43	145.8	5.646	10.5	28.97	0
5/20/2019 6:30	7.764	153.1	9.66	10.61	28.97	0
5/20/2019 6:45	6.981	140.8	7.608	10.56	28.97	0
5/20/2019 7:00	7.782	146.4	9.62	10.54	28.98	0
5/20/2019 7:15	7.375	141.4	6.752	10.54	28.98	0
5/20/2019 7:30	6.624	141	8.32	10.54	28.98	0
5/20/2019 7:45	7.052	139.2	6.788	10.55	28.98	0
5/20/2019 8:00	6.771	144.4	7.941	10.69	28.96	0.01
5/20/2019 8:15	7.228	151.3	16.13	10.76	28.96	0
5/20/2019 8:30	9.17	170.8	10.71	10.61	28.96	0.01
5/20/2019 8:45	7.249	169.6	10.38	10.65	28.96	0.01
5/20/2019 9:00	7.019	136	8.02	10.67	28.98	0

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5/20/2019 9:15	7.993	150.9	11.47	10.86	28.98	0.01
5/20/2019 9:30	6.721	152.4	14.16	11.02	28.98	0
5/20/2019 9:45	6.578	140.9	7.122	11.02	28.98	0
5/20/2019 10:00	6.984	133.6	8.06	11.03	28.96	0
5/20/2019 10:15	5.785	130.9	9.14	11.01	28.96	0
5/20/2019 10:30	5.774	136.8	9.17	11.27	28.96	0
5/20/2019 10:45	7.088	135.7	12.68	11.66	28.96	0.01
5/20/2019 11:00	7.309	152.3	17.5	11.98	28.98	0
5/20/2019 11:15	7.657	150.4	12.64	11.96	28.98	0
5/20/2019 11:30	7.475	176.4	10.75	11.96	28.98	0
5/20/2019 11:45	6.056	139.2	21.66	11.79	28.98	0
5/20/2019 12:00	4.373	109.6	14.12	11.82	28.96	0
5/20/2019 12:15	5.949	96.1	15.37	11.59	28.96	0
5/20/2019 12:30	7.626	163.4	47.57	11.56	28.96	0.05
5/20/2019 12:45	8.54	235.9	10.97	10.72	28.96	0.02
5/20/2019 13:00	7.529	250.3	8.91	10.5	28.97	0.03
5/20/2019 13:15	7.798	251.2	12.97	10.49	28.97	0.01
5/20/2019 13:30	6.838	239.6	9.14	10.56	28.97	0.02
5/20/2019 13:45	6.393	241.1	9.77	10.71	28.97	0.01
5/20/2019 14:00	7.132	235.4	12.44	10.75	28.98	0
5/20/2019 14:15	5.603	212.6	20.6	10.66	28.98	0.01
5/20/2019 14:30	2.328	182.6	32.89	10.9	28.98	0
5/20/2019 14:45	3.768	153.4	37.54	10.94	28.98	0.01
5/20/2019 15:00	4.726	156.7	14.31	10.94	29	0.01
5/20/2019 15:15	4.685	130.6	14.13	11	29	0
5/20/2019 15:30	3.238	112.6	13.06	11.06	29	0
5/20/2019 15:45	4.39	101.1	14.24	11.01	29	0.01
5/20/2019 16:00	4.064	110.7	9.07	11.04	28.97	0
5/20/2019 16:15	4.82	103	11.2	10.88	28.97	0
5/20/2019 16:30	4.221	86	10.7	10.76	28.97	0
5/20/2019 16:45	4.433	78.53	10.46	10.62	28.97	0
5/20/2019 17:00	3.521	75.35	8.48	10.47	28.98	0.01
5/20/2019 17:15	2.941	52.6	10.94	10.3	28.98	0.01
5/20/2019 17:30	3.645	36.57	4.907	9.98	28.98	0.01
5/20/2019 17:45	3.914	27.4	5.234	9.73	28.98	0
5/20/2019 18:00	4.763	37.85	5.978	9.66	28.94	0.02
5/20/2019 18:15	4.513	30.76	4.397	9.56	28.94	0.01
5/20/2019 18:30	5.047	34.44	5.501	9.37	28.94	0.01
5/20/2019 18:45	4.464	41.53	6.832	9.23	28.94	0
5/20/2019 19:00	3.997	49.01	8.72	9.18	28.93	0.01
5/20/2019 19:15	6.664	47.29	7.963	8.92	28.93	0.01
5/20/2019 19:30	6.731	46.6	6.381	8.67	28.93	0.01
5/20/2019 19:45	6.566	37.7	7.495	8.51	28.93	0
5/20/2019 20:00	5.406	42.1	9.4	8.65	28.93	0.01
5/20/2019 20:15	6.283	31.93	6.959	8.42	28.93	0.01
5/20/2019 20:30	5.903	36.97	4.9	8.24	28.93	0.01
5/20/2019 20:45	5.697	31.13	6.403	8.1	28.93	0

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5/20/2019 21:00	7.478	24.75	6.142	8.04	28.91	0.01
5/20/2019 21:15	7.998	22.07	8.48	8.08	28.91	0
5/20/2019 21:30	5.243	38.51	8.83	7.994	28.91	0
5/20/2019 21:45	5.73	54.31	8.72	8.03	28.91	0
5/20/2019 22:00	6.002	42.91	7.87	8.58	28.92	0
5/20/2019 22:15	4.778	43.35	9.91	8.72	28.92	0
5/20/2019 22:30	4.466	54.66	8.7	8.37	28.92	0
5/20/2019 22:45	3.928	40.14	10.83	8.21	28.92	0
5/20/2019 23:00	4.188	37.07	4.553	8.09	28.91	0
5/20/2019 23:15	4.219	34.25	6.478	7.966	28.91	0
5/20/2019 23:30	3.39	24.63	8.55	8.08	28.91	0
5/20/2019 23:45	4.135	31.3	6.891	7.975	28.91	0
5/21/2019 0:00	5.591	36.66	9.24	7.922	28.88	0
5/21/2019 0:15	7.369	42.04	7.582	8.01	28.88	0
5/21/2019 0:30	5.81	45.03	11.4	7.944	28.88	0
5/21/2019 0:45	5.778	47.98	8.65	7.963	28.88	0
5/21/2019 1:00	5.264	42.54	10.22	7.929	28.87	0
5/21/2019 1:15	2.702	54.85	9.37	8.06	28.87	0
5/21/2019 1:30	2.598	44.59	4.582	8.25	28.87	0
5/21/2019 1:45	3.044	27.1	9.66	7.967	28.87	0
5/21/2019 2:00	3.034	5.5	4.182	7.977	28.89	0
5/21/2019 2:15	2.373	26.67	9.67	7.857	28.89	0
5/21/2019 2:30	0.671	51.78	4.929	7.917	28.89	0
5/21/2019 2:45	0.056	57.49	0.013	8.05	28.89	0
5/21/2019 3:00	0.535	38.78	12.37	8.22	28.89	0
5/21/2019 3:15	1.068	11.81	1.539	8.04	28.89	0.01
5/21/2019 3:30	0.14	11.37	0.015	8.27	28.89	0
5/21/2019 3:45	0.246	11.33	0.034	8.61	28.89	0
5/21/2019 4:00	0.405	314.1	24.58	8.51	28.88	0
5/21/2019 4:15	0.333	8.46	22.15	8.36	28.88	0
5/21/2019 4:30	0.871	13.4	14.05	8.18	28.88	0
5/21/2019 4:45	2.517	336.7	6.449	8.2	28.88	0
5/21/2019 5:00	2.84	323.8	8.14	8.2	28.87	0.01
5/21/2019 5:15	2.439	340	4.262	8.03	28.87	0
5/21/2019 5:30	2.292	338.2	4.189	8.03	28.87	0
5/21/2019 5:45	2.17	3.06	11.13	8.1	28.87	0
5/21/2019 6:00	1.753	9.37	9.34	8.27	28.89	0
5/21/2019 6:15	2.545	1.473	8.3	8.37	28.89	0
5/21/2019 6:30	4.554	8.56	8.64	8.49	28.89	0
5/21/2019 6:45	5.931	7.592	7.465	8.61	28.89	0
5/21/2019 7:00	6.654	10.87	9.3	8.77	28.91	0
5/21/2019 7:15	7.129	10.65	10.25	8.94	28.91	0
5/21/2019 7:30	5.817	13.18	21.31	9.1	28.91	0
5/21/2019 7:45	6.693	21.75	8.57	9.48	28.91	0
5/21/2019 8:00	7.678	15.05	8.51	9.72	28.91	0
5/21/2019 8:15	6.893	8.32	10.12	10.17	28.91	0
5/21/2019 8:30	7.543	2.236	12.74	10.67	28.91	0

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5/21/2019 8:45	7.832	16.34	11.57	11.21	28.91	0
5/21/2019 9:00	8.62	25.87	8.11	11.73	28.92	0
5/21/2019 9:15	8.25	4.725	26.21	12.41	28.92	0
5/21/2019 9:30	11.04	356.3	18.44	11.6	28.92	0
5/21/2019 9:45	10.07	8.38	13.72	11.75	28.92	0
5/21/2019 10:00	10.73	3.371	14.3	12.04	28.93	0
5/21/2019 10:15	10.01	352.1	15.19	12.15	28.93	0
5/21/2019 10:30	9.83	341.7	18.07	12.53	28.93	0
5/21/2019 10:45	6.877	340.6	17.25	12.35	28.93	0
5/21/2019 11:00	6.685	321.9	22.24	12.41	28.92	0
5/21/2019 11:15	7.267	336.5	20.09	12.89	28.92	0
5/21/2019 11:30	10.31	1.922	19.25	13.32	28.92	0
5/21/2019 11:45	9.63	336.8	24.54	13.45	28.92	0
5/21/2019 12:00	11.34	347.1	27.17	13.54	28.95	0
5/21/2019 12:15	10.03	354.9	19.14	13.3	28.95	0
5/21/2019 12:30	9.34	347.3	16.22	13.54	28.95	0
5/21/2019 12:45	10.15	352.5	16.99	13.83	28.95	0
5/21/2019 13:00	8.1	347.5	18.24	13.84	28.95	0
5/21/2019 13:15	8.85	4.848	15.82	13.12	28.95	0
5/21/2019 13:30	8.68	337.9	15.92	12.98	28.95	0
5/21/2019 13:45	6.312	333.3	12.72	12.79	28.95	0
5/21/2019 14:00	5.571	17.52	16.81	12.79	28.95	0
5/21/2019 14:15	4.321	4.332	31.45	12.95	28.95	0
5/21/2019 14:30	3.641	3.768	28.56	13.26	28.95	0
5/21/2019 14:45	5.449	347.5	20.42	13.3	28.95	0
5/21/2019 15:00	7.833	325.7	13.37	13.14	28.97	0
5/21/2019 15:15	4.147	348.7	34.61	13.3	28.97	0
5/21/2019 15:30	5.051	338.5	35.53	13.57	28.97	0
5/21/2019 15:45	8.21	35.91	11.2	13.5	28.97	0
5/21/2019 16:00	6.475	28.79	9.96	13.57	28.98	0
5/21/2019 16:15	6.39	32.94	11.89	13.52	28.98	0
5/21/2019 16:30	5.924	14.53	11.36	13.58	28.98	0
5/21/2019 16:45	4.696	16.17	9.45	13.64	28.98	0
5/21/2019 17:00	4.043	13.72	24.31	13.66	28.97	0
5/21/2019 17:15	4.455	354.2	21.13	13.71	28.97	0
5/21/2019 17:30	3.609	12.82	11.88	13.62	28.97	0
5/21/2019 17:45	4.059	328.2	15.05	13.66	28.97	0
5/21/2019 18:00	3.829	354.9	16.81	13.56	29.01	0
5/21/2019 18:15	3.599	356.7	16.81	13.55	29.01	0
5/21/2019 18:30	4.883	21.44	16.98	13.33	29.01	0
5/21/2019 18:45	6.033	4.345	12.42	13.22	29.01	0
5/21/2019 19:00	5.44	359.3	11.05	13.19	29.02	0
5/21/2019 19:15	4.616	354	9.85	13.15	29.02	0
5/21/2019 19:30	4.522	1.817	12.05	13.05	29.02	0
5/21/2019 19:45	3.562	357.2	10.65	12.82	29.02	0
5/21/2019 20:00	3.249	8.94	9.99	12.58	29.05	0
5/21/2019 20:15	2.838	7.982	9.54	12.44	29.05	0

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5/21/2019 20:30	2.575	1.876	14.59	12.31	29.05	0
5/21/2019 20:45	2.472	20.91	4.149	11.98	29.05	0
5/21/2019 21:00	1.906	28.78	1.983	11.95	29.06	0
5/21/2019 21:15	2.029	21.35	1.236	12.09	29.06	0
5/21/2019 21:30	1.716	26.54	8.99	12.07	29.06	0
5/21/2019 21:45	2.375	65.53	4.545	12.02	29.06	0
5/21/2019 22:00	1.088	77.35	3.384	11.89	29.06	0
5/21/2019 22:15	1.166	92.1	27.04	12.24	29.06	0
5/21/2019 22:30	2.922	127	11.46	12.21	29.06	0
5/21/2019 22:45	2.522	158.9	13.04	12.42	29.06	0
5/21/2019 23:00	2.51	166.5	18.23	12.05	29.08	0
5/21/2019 23:15	4.706	124.6	9.45	11.8	29.08	0
5/21/2019 23:30	2.261	27.7	58.73	11.46	29.08	0
5/21/2019 23:45	1.407	213.9	52.85	11.42	29.08	0
5/22/2019 0:00	4.31	212.5	18.12	11.56	29.08	0
5/22/2019 0:15	4.893	206.4	4.921	11.38	29.08	0
5/22/2019 0:30	4.423	204.5	10.42	11.32	29.08	0
5/22/2019 0:45	4.433	214.1	4.777	11.24	29.08	0
5/22/2019 1:00	2.797	257.6	22.31	10.91	29.1	0
5/22/2019 1:15	1.908	255.7	17.81	10.78	29.1	0
5/22/2019 1:30	2.636	210.3	7.925	11.02	29.1	0
5/22/2019 1:45	2.578	198.2	8.25	10.83	29.1	0
5/22/2019 2:00	1.706	152.2	14.33	10.84	29.11	0
5/22/2019 2:15	0.988	142.8	0.449	10.86	29.11	0
5/22/2019 2:30	1.164	104.2	31.02	10.67	29.11	0
5/22/2019 2:45	1.77	54.79	1.499	10.46	29.11	0
5/22/2019 3:00	1.974	53.88	1.253	10.98	29.11	0
5/22/2019 3:15	2.032	52.1	0.101	11.4	29.11	0
5/22/2019 3:30	0.874	52.05	0.194	11.44	29.11	0
5/22/2019 3:45	1.293	42.31	11.43	11.59	29.11	0
5/22/2019 4:00	1.929	29.37	2.5	11.12	29.12	0
5/22/2019 4:15	0.806	32.61	0.047	10.75	29.12	0
5/22/2019 4:30	0.454	32.58	0.063	10.71	29.12	0
5/22/2019 4:45	0	0	0	10.89	29.12	0
5/22/2019 5:00	0.139	32.63	0.031	11.1	29.14	0
5/22/2019 5:15	0.156	32.65	0.057	11.31	29.14	0
5/22/2019 5:30	0.368	34.23	2.615	11.5	29.14	0
5/22/2019 5:45	0.446	41.38	0.147	11.74	29.14	0
5/22/2019 6:00	0.732	36.97	10.52	11.9	29.17	0
5/22/2019 6:15	0.9	282.9	20.48	11.74	29.17	0
5/22/2019 6:30	0.994	278.4	3.758	11.89	29.17	0
5/22/2019 6:45	0.334	274.4	0.327	12.11	29.17	0
5/22/2019 7:00	0.239	18.02	18.92	12.56	29.16	0
5/22/2019 7:15	0.902	184.7	45.39	12.6	29.16	0
5/22/2019 7:30	1.852	173.6	20.1	12.62	29.16	0
5/22/2019 7:45	1.528	182.7	16.22	12.78	29.16	0
5/22/2019 8:00	1.112	173.5	33.48	12.99	29.16	0

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5/22/2019 8:15	1.38	235.1	32.47	13.47	29.16	0
5/22/2019 8:30	2.407	264.9	47.68	13.57	29.16	0
5/22/2019 8:45	1.669	297.8	33.6	14.15	29.16	0
5/22/2019 9:00	2.639	300.2	13.42	14.56	29.18	0
5/22/2019 9:15	2.421	298.2	20.14	14.99	29.18	0
5/22/2019 9:30	1.408	252	27.5	15.03	29.18	0
5/22/2019 9:45	2.158	285.2	18.44	15.17	29.18	0
5/22/2019 10:00	2.522	309.5	31.91	15.26	29.18	0
5/22/2019 10:15	2.355	302.7	22.2	15.78	29.18	0
5/22/2019 10:30	2.515	303.8	26.41	16.1	29.18	0
5/22/2019 10:45	3.31	301.8	25.45	16.26	29.18	0
5/22/2019 11:00	2.95	248.1	32.14	16.47	29.16	0
5/22/2019 11:15	3.327	280.9	29.77	16.74	29.16	0
5/22/2019 11:30	2.576	319.7	62.36	16.8	29.16	0
5/22/2019 11:45	2.76	128.6	42.49	17.25	29.16	0
5/22/2019 12:00	2.783	283.4	85.2	17.34	29.17	0
5/22/2019 12:15	2.192	292	62.46	17.64	29.17	0
5/22/2019 12:30	2.316	284.2	42.79	17.9	29.17	0
5/22/2019 12:45	3.431	261	47.83	18.22	29.17	0
5/22/2019 13:00	4.32	316	44.13	18.78	29.16	0
5/22/2019 13:15	3.437	286.3	41.84	19.1	29.16	0
5/22/2019 13:30	3.817	309.9	25.82	18.95	29.16	0
5/22/2019 13:45	3.445	16.18	55.56	18.81	29.16	0
5/22/2019 14:00	1.831	285.7	44.89	19.21	29.18	0
5/22/2019 14:15	1.945	356.1	31.23	19.37	29.18	0
5/22/2019 14:30	4.329	15.6	47.28	19.95	29.18	0
5/22/2019 14:45	5.608	287.2	26.4	20.29	29.18	0
5/22/2019 15:00	5.24	298.3	39.59	20.34	29.15	0
5/22/2019 15:15	5.146	276.6	17.33	20.54	29.15	0
5/22/2019 15:30	4.646	323.9	33.48	20.74	29.15	0
5/22/2019 15:45	5.914	294.6	15.51	20.73	29.15	0
5/22/2019 16:00	6.938	285.6	24.45	21.16	29.17	0
5/22/2019 16:15	6.094	312.9	14.63	21.13	29.17	0
5/22/2019 16:30	7.448	301.9	14.31	20.92	29.17	0
5/22/2019 16:45	6.68	306.5	12.81	20.97	29.17	0
5/22/2019 17:00	5.9	310.7	13.57	20.88	29.17	0
5/22/2019 17:15	4.853	337.2	22.82	21.09	29.17	0
5/22/2019 17:30	6.047	346.3	25.42	21.45	29.17	0
5/22/2019 17:45	3.661	19.2	36.45	20.95	29.17	0
5/22/2019 18:00	4.248	339.6	18.07	20.7	29.18	0
5/22/2019 18:15	2.375	0.63	20.94	20.61	29.18	0
5/22/2019 18:30	4.92	345.7	11.91	20.43	29.18	0
5/22/2019 18:45	5.778	4.606	8.12	20.04	29.18	0
5/22/2019 19:00	6.164	5.09	9.71	19.85	29.18	0
5/22/2019 19:15	4.293	26.59	7.633	19.54	29.18	0
5/22/2019 19:30	2.577	44.84	8.48	19.42	29.18	0
5/22/2019 19:45	3.55	87.1	33.48	19.32	29.18	0

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5/22/2019 20:00	6.88	146.9	7.097	18.28	29.2	0
5/22/2019 20:15	5.369	154.5	5.433	17.9	29.2	0
5/22/2019 20:30	4.124	145.3	6.365	17.68	29.2	0
5/22/2019 20:45	2.134	88.7	17.23	17.71	29.2	0
5/22/2019 21:00	0.457	70.4	0.87	17.74	29.21	0
5/22/2019 21:15	2.379	202.7	40.49	17.82	29.21	0
5/22/2019 21:30	4.322	167.5	16.46	17.39	29.21	0
5/22/2019 21:45	5.022	168.7	10.94	16.9	29.21	0
5/22/2019 22:00	5.473	185.5	3.157	16.64	29.21	0
5/22/2019 22:15	4.994	179.9	5.062	16.43	29.21	0
5/22/2019 22:30	4.161	186.6	17.89	16.29	29.21	0
5/22/2019 22:45	4.391	207	9.44	16.11	29.21	0
5/22/2019 23:00	4.362	200.6	4.325	15.83	29.23	0
5/22/2019 23:15	5.214	198.1	5.795	15.47	29.23	0
5/22/2019 23:30	4.518	187.7	4.626	15.17	29.23	0
5/22/2019 23:45	4.627	190.3	9.77	14.78	29.23	0
5/23/2019 0:00	5.275	187.1	8.08	14.49	29.22	0
5/23/2019 0:15	5.429	156.5	5.291	13.99	29.22	0
5/23/2019 0:30	3.576	128.5	9.01	13.87	29.22	0
5/23/2019 0:45	2.634	118.5	8.3	13.71	29.22	0
5/23/2019 1:00	5.106	144.4	8.06	13.53	29.22	0
5/23/2019 1:15	4.128	147	3.118	13.43	29.22	0
5/23/2019 1:30	3.499	141.1	6.777	13.4	29.22	0
5/23/2019 1:45	2.258	118.2	4.626	13.4	29.22	0
5/23/2019 2:00	0.215	113.2	0.03	13.31	29.22	0
5/23/2019 2:15	0.059	115.4	0.02	13.38	29.22	0
5/23/2019 2:30	1.789	250.9	39.17	13.09	29.22	0
5/23/2019 2:45	1.937	174.4	28.77	13.13	29.22	0
5/23/2019 3:00	1.735	156	5.601	12.83	29.25	0
5/23/2019 3:15	2.919	187.2	18.82	12.99	29.25	0
5/23/2019 3:30	3.203	187.8	11.27	12.47	29.25	0
5/23/2019 3:45	2.712	167.7	16.59	12.34	29.25	0
5/23/2019 4:00	2.198	171.2	12.41	12.13	29.22	0
5/23/2019 4:15	4.084	171.6	6.145	12.04	29.22	0
5/23/2019 4:30	4.349	161.1	8.81	11.86	29.22	0
5/23/2019 4:45	3.451	121.7	9.44	11.5	29.22	0
5/23/2019 5:00	3.128	133	7.534	11.53	29.24	0
5/23/2019 5:15	3.257	154.5	14.62	11.81	29.24	0
5/23/2019 5:30	4.568	200.2	10.6	12.07	29.24	0
5/23/2019 5:45	3.306	191.7	12.94	12.21	29.24	0
5/23/2019 6:00	3.165	183.6	23.34	12.12	29.23	0
5/23/2019 6:15	3.07	217.7	6.421	12.29	29.23	0
5/23/2019 6:30	2.295	173.9	17.73	12.56	29.23	0
5/23/2019 6:45	2.951	148	17.94	13.01	29.23	0
5/23/2019 7:00	3.376	167.4	14.55	13.23	29.22	0
5/23/2019 7:15	3.696	178.7	12.56	13.4	29.22	0
5/23/2019 7:30	3.335	204.9	23.81	13.75	29.22	0

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5/23/2019 7:45	2.306	232.8	21.09	14.16	29.22	0
5/23/2019 8:00	2.412	232.6	19.29	14.65	29.22	0
5/23/2019 8:15	1.821	247.3	30.47	15.56	29.22	0
5/23/2019 8:30	3.126	239	25.84	15.54	29.22	0
5/23/2019 8:45	3.286	258.1	30.27	16.04	29.22	0
5/23/2019 9:00	6.395	261.6	13.44	16.5	29.19	0
5/23/2019 9:15	6.602	267.6	13.61	16.83	29.19	0
5/23/2019 9:30	6.796	262	11.61	17.04	29.19	0
5/23/2019 9:45	7.584	262.8	11.85	17.2	29.19	0
5/23/2019 10:00	8.26	261.2	10.37	17.3	29.2	0
5/23/2019 10:15	7.064	262.2	8.69	17.66	29.2	0
5/23/2019 10:30	9.08	250.1	14.54	17.73	29.2	0
5/23/2019 10:45	9.27	254	10.6	17.96	29.2	0
5/23/2019 11:00	9.99	249.6	8.53	17.93	29.18	0
5/23/2019 11:15	9.09	268.5	9.73	18.36	29.18	0
5/23/2019 11:30	8.64	266.5	8.99	18.83	29.18	0
5/23/2019 11:45	9.33	254.8	9.88	19.09	29.18	0
5/23/2019 12:00	8.28	253	13.94	19.6	29.16	0
5/23/2019 12:15	8.44	250.3	14.66	19.96	29.16	0
5/23/2019 12:30	8.75	257.1	11.24	20.21	29.16	0
5/23/2019 12:45	7.93	238.8	18.6	20.66	29.16	0
5/23/2019 13:00	8.16	246.5	20	21	29.13	0
5/23/2019 13:15	9.71	236.6	9.75	21.37	29.13	0
5/23/2019 13:30	9.49	245.5	17.32	22.19	29.13	0
5/23/2019 13:45	8.62	270.2	22.27	22.61	29.13	0
5/23/2019 14:00	9.97	274.2	13.57	22.65	29.12	0
5/23/2019 14:15	11.63	275.7	12.14	22.64	29.12	0
5/23/2019 14:30	11.01	268.8	10.76	22.48	29.12	0
5/23/2019 14:45	8.61	272	13.1	23.04	29.12	0
5/23/2019 15:00	7.968	276.5	20.21	22.94	29.08	0
5/23/2019 15:15	9.33	284.9	19.97	23.09	29.08	0
5/23/2019 15:30	9.31	289.7	18.9	23.22	29.08	0
5/23/2019 15:45	11.59	277.9	9.68	22.96	29.08	0
5/23/2019 16:00	9.54	292	17.36	23.2	29.1	0
5/23/2019 16:15	11.06	293.9	9.15	23.31	29.1	0
5/23/2019 16:30	9.62	293.4	14.06	23.29	29.1	0
5/23/2019 16:45	8.39	287.4	12.85	23.39	29.1	0
5/23/2019 17:00	10.66	281.2	10.85	23.35	29.06	0
5/23/2019 17:15	12.93	279.2	6.288	23.06	29.06	0
5/23/2019 17:30	11.72	283.2	10.57	23.02	29.06	0
5/23/2019 17:45	10.83	287.2	8.47	23.08	29.06	0
5/23/2019 18:00	9.53	293.9	10.37	22.89	29.07	0
5/23/2019 18:15	8.11	296.7	13.56	22.73	29.07	0
5/23/2019 18:30	6.445	311.3	5.386	22.18	29.07	0
5/23/2019 18:45	5.235	285.4	19.72	21.73	29.07	0
5/23/2019 19:00	6.976	248.7	16.11	21.94	29.06	0
5/23/2019 19:15	6.345	258.4	7.99	21.4	29.06	0



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5/23/2019 19:30	6.988	258.1	5.6	21.01	29.06	0
5/23/2019 19:45	6.995	251.7	7.032	20.66	29.06	0
5/23/2019 20:00	7.308	245.1	5.663	20.2	29.06	0
5/23/2019 20:15	6.54	244.2	7.331	19.68	29.06	0
5/23/2019 20:30	4.233	239.7	10.11	19.14	29.06	0
5/23/2019 20:45	4.19	227.7	5.255	18.82	29.06	0
5/23/2019 21:00	6.737	228.3	5.591	18.48	29.08	0
5/23/2019 21:15	5.88	223.6	6.735	18.05	29.08	0
5/23/2019 21:30	7.262	218.3	7.872	17.53	29.08	0
5/23/2019 21:45	6.186	223.4	7.621	17.01	29.08	0
5/23/2019 22:00	6.389	225.9	6.581	16.52	29.09	0
5/23/2019 22:15	6.701	226.8	8.05	16.04	29.09	0
5/23/2019 22:30	6.439	234.4	6.94	15.51	29.09	0
5/23/2019 22:45	7.893	224.4	5.534	15.13	29.09	0
5/23/2019 23:00	7.689	230.3	6.128	14.52	29.09	0
5/23/2019 23:15	8.13	233.7	7.817	13.94	29.09	0
5/23/2019 23:30	7.139	230.2	9.94	13.52	29.09	0
5/23/2019 23:45	8.84	218.6	8.18	12.79	29.09	0
5/24/2019 0:00	8.22	220.2	5.029	12.43	29.1	0
5/24/2019 0:15	6.952	216.1	7.666	12.19	29.1	0
5/24/2019 0:30	5.473	172.3	19.82	11.96	29.1	0
5/24/2019 0:45	7.337	154.4	9.9	11.78	29.1	0
5/24/2019 1:00	8.28	159.6	10.8	11.83	29.08	0
5/24/2019 1:15	10.08	166.5	8.02	11.93	29.08	0
5/24/2019 1:30	12.59	167.7	7.952	11.71	29.08	0
5/24/2019 1:45	12.33	174.7	8.44	11.47	29.08	0
5/24/2019 2:00	12.03	176.6	8.08	11.3	29.07	0
5/24/2019 2:15	9.79	167.1	9.12	11.24	29.07	0
5/24/2019 2:30	10.63	166.5	6.584	11.21	29.07	0
5/24/2019 2:45	10.45	169.8	8.23	11.17	29.07	0
5/24/2019 3:00	9.42	170.5	12.22	11.17	29.1	0
5/24/2019 3:15	8.75	151.5	8.09	11.07	29.1	0
5/24/2019 3:30	10.15	171.6	9.47	11.16	29.1	0
5/24/2019 3:45	10.18	174.7	14.31	11.18	29.1	0
5/24/2019 4:00	11.14	180.4	10.21	11.14	29.08	0
5/24/2019 4:15	12.66	174.9	7.119	11.02	29.08	0
5/24/2019 4:30	9.91	186.8	9.22	11.02	29.08	0
5/24/2019 4:45	8.34	193.1	10.12	11.02	29.08	0
5/24/2019 5:00	12.94	199.1	8.29	11.01	29.09	0
5/24/2019 5:15	14.18	198.8	8.88	10.96	29.09	0
5/24/2019 5:30	10.75	190.3	11.2	10.84	29.09	0
5/24/2019 5:45	12.31	183.9	10.02	10.91	29.09	0
5/24/2019 6:00	11.49	179	10.73	10.91	29.07	0
5/24/2019 6:15	11.7	183.2	11.36	10.95	29.07	0
5/24/2019 6:30	13.47	185.9	20.42	10.98	29.07	0
5/24/2019 6:45	12.91	179.4	11	10.92	29.07	0
5/24/2019 7:00	12.17	174.4	9.67	10.93	29.1	0

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5/24/2019 7:15	14.35	177.7	11.16	10.54	29.1	0
5/24/2019 7:30	12.07	173.7	9.13	10.05	29.1	0
5/24/2019 7:45	9.53	161.6	8.52	9.96	29.1	0
5/24/2019 8:00	9.28	148.3	11.42	9.87	29.1	0
5/24/2019 8:15	9.23	142.6	8.02	9.78	29.1	0.01
5/24/2019 8:30	8.56	141.4	9.8	9.83	29.1	0
5/24/2019 8:45	8.46	133.3	8.54	9.81	29.1	0
5/24/2019 9:00	8.91	137.4	9.96	9.86	29.08	0
5/24/2019 9:15	9.12	142.4	9.11	9.96	29.08	0
5/24/2019 9:30	10.81	148.7	8.47	10.07	29.08	0.01
5/24/2019 9:45	9.37	156.1	11.7	10.23	29.08	0
5/24/2019 10:00	9.46	152.8	10.9	10.33	29.08	0.01
5/24/2019 10:15	10.27	165.2	8.16	10.4	29.08	0.01
5/24/2019 10:30	10.4	169	12.87	10.52	29.08	0
5/24/2019 10:45	10.97	160.3	12.84	10.59	29.08	0
5/24/2019 11:00	9.69	173.2	12.1	10.7	29.11	0.01
5/24/2019 11:15	10.01	168.2	8.02	10.81	29.11	0
5/24/2019 11:30	9.12	169.6	8.44	10.96	29.11	0.01
5/24/2019 11:45	10.46	163.5	10.06	11.35	29.11	0
5/24/2019 12:00	10.57	161.1	9.96	11.62	29.09	0
5/24/2019 12:15	10.91	172.9	10.14	11.68	29.09	0
5/24/2019 12:30	9.21	188.5	9.67	11.37	29.09	0.01
5/24/2019 12:45	7.142	192.2	15.17	11.51	29.09	0.01
5/24/2019 13:00	7.086	186.3	14.62	11.93	29.11	0
5/24/2019 13:15	7.517	178.5	10.17	12.26	29.11	0
5/24/2019 13:30	7.037	168.5	14.71	12.69	29.11	0
5/24/2019 13:45	6.398	173.9	13.93	13.16	29.11	0
5/24/2019 14:00	7.876	194.8	26.9	13.94	29.09	0
5/24/2019 14:15	9.63	207.9	15.25	14.41	29.09	0
5/24/2019 14:30	9.2	247.5	12.26	14.44	29.09	0
5/24/2019 14:45	11.64	255	14.53	14.67	29.09	0
5/24/2019 15:00	10.17	247.4	11.28	14.92	29.1	0
5/24/2019 15:15	9.97	234.4	14.22	15.09	29.1	0
5/24/2019 15:30	11.03	233.3	10.57	14.49	29.1	0
5/24/2019 15:45	11.31	240.2	12.2	14.25	29.1	0
5/24/2019 16:00	9.89	249.1	14.88	14.34	29.1	0
5/24/2019 16:15	11.1	247	14.85	14.01	29.1	0
5/24/2019 16:30	9.4	248.9	10.22	13.81	29.1	0
5/24/2019 16:45	10.12	247.3	11.23	13.92	29.1	0
5/24/2019 17:00	10.66	252.8	9.7	13.61	29.11	0
5/24/2019 17:15	10.01	248.3	12.24	13.47	29.11	0
5/24/2019 17:30	10.37	240.4	11.15	13.43	29.11	0
5/24/2019 17:45	9.61	245	11.75	13.17	29.11	0
5/24/2019 18:00	9.18	227.5	10.26	13.17	29.11	0
5/24/2019 18:15	9.6	231.4	8.65	12.93	29.11	0
5/24/2019 18:30	6.778	238.9	10.95	12.76	29.11	0
5/24/2019 18:45	7.229	239.6	10.14	12.63	29.11	0

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5/24/2019 19:00	7.091	235.7	9.33	12.49	29.12	0
5/24/2019 19:15	7.416	240.3	10.38	12.31	29.12	0
5/24/2019 19:30	8.36	249.8	7.25	12	29.12	0
5/24/2019 19:45	6.06	243.9	8.26	11.85	29.12	0
5/24/2019 20:00	5.291	247.6	6.542	11.76	29.14	0
5/24/2019 20:15	4.28	238.1	8.13	11.76	29.14	0
5/24/2019 20:30	3.631	254	8.02	11.64	29.14	0
5/24/2019 20:45	2.969	248.9	7.829	11.62	29.14	0
5/24/2019 21:00	2.271	252.5	6.363	11.63	29.16	0
5/24/2019 21:15	0.924	244.2	25.06	11.61	29.16	0
5/24/2019 21:30	0.667	114.4	11.62	11.34	29.16	0
5/24/2019 21:45	3.943	180.8	13.38	11.56	29.16	0
5/24/2019 22:00	4.448	179.6	4.776	11.51	29.15	0
5/24/2019 22:15	4.11	169.6	8.84	11.47	29.15	0
5/24/2019 22:30	7.498	169.7	8.65	11.38	29.15	0
5/24/2019 22:45	8.46	169.8	8.73	11.12	29.15	0
5/24/2019 23:00	8.15	167.4	6.42	11	29.17	0
5/24/2019 23:15	6.878	172.2	6.977	10.94	29.17	0
5/24/2019 23:30	7.442	170.1	6.016	10.89	29.17	0
5/24/2019 23:45	7.256	168.6	6.785	10.82	29.17	0
5/25/2019 0:00	6.648	169.9	7.991	10.77	29.15	0
5/25/2019 0:15	4.87	146.4	18.74	10.59	29.15	0
5/25/2019 0:30	4.992	155.9	15.19	10.45	29.15	0
5/25/2019 0:45	5.744	175.5	5.454	10.65	29.15	0
5/25/2019 1:00	5.388	168.5	6.838	10.59	29.18	0
5/25/2019 1:15	4.752	159.4	9.98	10.49	29.18	0
5/25/2019 1:30	4.473	147.9	10.35	10.25	29.18	0
5/25/2019 1:45	4.266	139.3	10.2	10.09	29.18	0
5/25/2019 2:00	4.693	134.1	9.2	10.1	29.17	0
5/25/2019 2:15	4.312	150.9	9.84	10.06	29.17	0
5/25/2019 2:30	4.882	161.6	7.967	10.12	29.17	0
5/25/2019 2:45	3.337	141	22.16	10.07	29.17	0
5/25/2019 3:00	3.285	111.5	8.44	9.9	29.15	0
5/25/2019 3:15	4.202	110.7	6.674	9.85	29.15	0
5/25/2019 3:30	4.158	116.6	6.43	9.83	29.15	0
5/25/2019 3:45	4.421	116.9	6.613	9.78	29.15	0
5/25/2019 4:00	4.989	116.9	8.07	9.77	29.15	0
5/25/2019 4:15	5.817	129.5	6.042	9.8	29.15	0
5/25/2019 4:30	6.52	128.4	6.678	9.81	29.15	0
5/25/2019 4:45	5.653	135.1	6.001	9.78	29.15	0
5/25/2019 5:00	5.593	132.3	6.269	9.75	29.14	0
5/25/2019 5:15	5.508	132.2	6.839	9.83	29.14	0
5/25/2019 5:30	5.554	123.7	8.25	9.95	29.14	0
5/25/2019 5:45	4.879	136.1	10.04	10.04	29.14	0
5/25/2019 6:00	4.384	138.2	5.371	10.04	29.14	0
5/25/2019 6:15	4.067	131.7	6.035	10.08	29.14	0
5/25/2019 6:30	4.24	131.5	6.709	10.16	29.14	0

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5/25/2019 6:45	4.022	149.2	12.88	10.37	29.14	0
5/25/2019 7:00	3.852	179	13.11	10.5	29.12	0
5/25/2019 7:15	4.521	158.5	18.17	10.44	29.12	0
5/25/2019 7:30	4.839	139.5	5.786	10.6	29.12	0
5/25/2019 7:45	4.707	141.8	10.31	10.77	29.12	0
5/25/2019 8:00	4.33	150.9	9.9	10.73	29.1	0
5/25/2019 8:15	5.397	171	19.59	10.76	29.1	0
5/25/2019 8:30	6.436	167.6	21.78	10.77	29.1	0
5/25/2019 8:45	6.274	180.7	9.61	10.77	29.1	0
5/25/2019 9:00	5.404	145.1	15.46	10.87	29.11	0
5/25/2019 9:15	5.543	161.8	10.96	10.94	29.11	0
5/25/2019 9:30	6.439	163.7	15.05	10.97	29.11	0
5/25/2019 9:45	6.93	161.4	15.23	10.95	29.11	0
5/25/2019 10:00	7.529	180.5	14.09	10.86	29.08	0
5/25/2019 10:15	8.91	211.1	9.31	10.19	29.08	0
5/25/2019 10:30	6.349	191.6	18.62	9.65	29.08	0
5/25/2019 10:45	5.816	140	9.61	9.39	29.08	0.01
5/25/2019 11:00	5.111	125.5	9.34	9.32	29.1	0
5/25/2019 11:15	4.797	121.8	8.38	9.29	29.1	0.01
5/25/2019 11:30	4.17	115.3	9.36	9.45	29.1	0
5/25/2019 11:45	5.225	130.4	11.63	9.57	29.1	0.01
5/25/2019 12:00	5.011	135.1	8.5	9.62	29.09	0.01
5/25/2019 12:15	6.13	140	14.23	9.66	29.09	0
5/25/2019 12:30	6.598	131.6	10.29	9.76	29.09	0.01
5/25/2019 12:45	7.121	136.9	9.81	9.9	29.09	0.01
5/25/2019 13:00	6.46	132.9	11.44	10.12	29.07	0
5/25/2019 13:15	6.15	133.2	10.52	10.15	29.07	0.01
5/25/2019 13:30	4.764	123.6	13.34	10.33	29.07	0.01
5/25/2019 13:45	4.339	115.3	19.28	10.45	29.07	0.01
5/25/2019 14:00	3.276	127.4	14.84	10.68	29.06	0
5/25/2019 14:15	4.379	115.4	12.68	10.65	29.06	0.01
5/25/2019 14:30	4.584	113	16.79	10.72	29.06	0.01
5/25/2019 14:45	2.693	110.2	15.99	10.81	29.06	0
5/25/2019 15:00	3.864	122.8	8.71	10.77	29.08	0.01
5/25/2019 15:15	2.863	97.7	23.91	10.86	29.08	0.01
5/25/2019 15:30	4.229	75.46	7.053	10.67	29.08	0.02
5/25/2019 15:45	3.587	66.84	9.33	10.84	29.08	0.01
5/25/2019 16:00	3.603	48.76	6.516	10.9	29.06	0
5/25/2019 16:15	1.963	37.59	9.53	10.83	29.06	0.01
5/25/2019 16:30	1.661	61.37	12.49	11.01	29.06	0
5/25/2019 16:45	2.003	45.83	10.23	11.05	29.06	0
5/25/2019 17:00	0.705	53.37	6.136	11.43	29.07	0.01
5/25/2019 17:15	0.628	18.01	22.53	12.01	29.07	0
5/25/2019 17:30	3.458	286.4	14.55	12.01	29.07	0
5/25/2019 17:45	2.266	272.1	21.35	12.3	29.07	0
5/25/2019 18:00	2.156	274.9	29.08	11.9	29.06	0
5/25/2019 18:15	2.188	320.3	16.09	11.78	29.06	0

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5/25/2019 18:30	3.139	347.3	5.355	11.4	29.06	0
5/25/2019 18:45	4.217	331.8	6.34	11.43	29.06	0
5/25/2019 19:00	3.935	323.7	5.381	11.64	29.04	0
5/25/2019 19:15	5.668	311.8	6.146	11.23	29.04	0
5/25/2019 19:30	4.946	337.8	9	11.03	29.04	0
5/25/2019 19:45	3.817	351.1	14.35	10.82	29.04	0
5/25/2019 20:00	5.212	6.044	8.67	10.66	29.05	0
5/25/2019 20:15	3.546	5.618	7.61	10.56	29.05	0
5/25/2019 20:30	3.719	353.1	18.21	10.62	29.05	0
5/25/2019 20:45	4.246	1.98	18.43	10.68	29.05	0
5/25/2019 21:00	5.37	11.61	11.4	10.67	29.06	0
5/25/2019 21:15	5.034	357.5	18.66	10.71	29.06	0
5/25/2019 21:30	5.963	5.155	15.11	10.68	29.06	0
5/25/2019 21:45	8.14	14.18	12.26	10.5	29.06	0
5/25/2019 22:00	7.812	6.537	17.08	10.42	29.08	0
5/25/2019 22:15	10.95	13.14	15.37	10.27	29.08	0
5/25/2019 22:30	7.552	9.83	11.97	10.2	29.08	0
5/25/2019 22:45	6.996	7.966	11.05	10.24	29.08	0
5/25/2019 23:00	8.06	22.39	12.52	10.12	29.07	0
5/25/2019 23:15	9.85	10.51	11.22	9.99	29.07	0
5/25/2019 23:30	7.245	11.89	9.81	10.12	29.07	0
5/25/2019 23:45	6.285	14.86	11.06	10.11	29.07	0
5/26/2019 0:00	7.13	16.53	9.55	10.08	29.04	0
5/26/2019 0:15	8.56	14.08	10.59	10.08	29.04	0
5/26/2019 0:30	8.09	8.49	11.48	10.13	29.04	0
5/26/2019 0:45	10.49	15.36	12.29	10.07	29.04	0
5/26/2019 1:00	9.57	10.22	9.85	10.04	29.06	0
5/26/2019 1:15	8.39	8.25	14.46	10.2	29.06	0
5/26/2019 1:30	8.95	4.949	11.19	10.18	29.06	0
5/26/2019 1:45	8.54	8.9	12.92	10.12	29.06	0
5/26/2019 2:00	6.98	2.549	16.54	10.16	29.06	0
5/26/2019 2:15	7.696	357.8	14.09	10.25	29.06	0
5/26/2019 2:30	5.099	6.954	12.16	10.07	29.06	0
5/26/2019 2:45	7.237	351	14.09	10.24	29.06	0
5/26/2019 3:00	7.397	355.9	13.08	10.3	29.04	0
5/26/2019 3:15	5.979	15.29	17.07	10.1	29.04	0
5/26/2019 3:30	6.719	17.31	9.45	9.93	29.04	0
5/26/2019 3:45	7.199	11.07	9.06	9.9	29.04	0
5/26/2019 4:00	5.968	9.4	9.54	9.89	29.04	0
5/26/2019 4:15	3.927	4.8	8.27	9.89	29.04	0
5/26/2019 4:30	2.398	2.186	15.24	9.99	29.04	0
5/26/2019 4:45	4.006	1.829	32.33	9.93	29.04	0
5/26/2019 5:00	5.207	17.76	8.77	9.88	29.06	0
5/26/2019 5:15	4.326	13.08	10.1	9.81	29.06	0
5/26/2019 5:30	4.527	10.03	9.11	9.77	29.06	0
5/26/2019 5:45	3.668	15.72	12.85	9.74	29.06	0
5/26/2019 6:00	4.138	19.33	13.58	9.68	29.07	0

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5/26/2019 6:15	4.787	22.73	7.06	9.6	29.07	0
5/26/2019 6:30	4.278	21	10.9	9.63	29.07	0
5/26/2019 6:45	4.476	5.811	8.86	9.7	29.07	0.01
5/26/2019 7:00	4.496	4.545	12.33	9.85	29.07	0
5/26/2019 7:15	3.353	13.08	9.16	10.13	29.07	0
5/26/2019 7:30	3.722	8.74	17.34	10.27	29.07	0
5/26/2019 7:45	2.967	19.63	9.15	10.28	29.07	0
5/26/2019 8:00	4.134	18.62	16.78	10.29	29.06	0
5/26/2019 8:15	5.17	18.63	11.81	10.43	29.06	0
5/26/2019 8:30	7.032	11.75	8.08	10.47	29.06	0.01
5/26/2019 8:45	7.765	21.33	11.57	10.43	29.06	0
5/26/2019 9:00	7.106	25.43	21.8	10.49	29.08	0.01
5/26/2019 9:15	5.538	36.08	15.51	10.58	29.08	0
5/26/2019 9:30	5.262	36.53	23.69	11.04	29.08	0
5/26/2019 9:45	9.62	9.33	14.32	11.25	29.08	0.01
5/26/2019 10:00	11.28	17.84	10.71	11.31	29.06	0
5/26/2019 10:15	10.98	18.35	9.86	11.8	29.06	0
5/26/2019 10:30	7.936	18.09	9.15	12.08	29.06	0
5/26/2019 10:45	5.623	32.59	10.34	12.43	29.06	0
5/26/2019 11:00	5.691	35.24	18.98	12.98	29.06	0
5/26/2019 11:15	6.09	39.17	16.07	13.3	29.06	0
5/26/2019 11:30	5.545	20.64	14.14	13.53	29.06	0
5/26/2019 11:45	5.317	30.11	13.82	14.14	29.06	0
5/26/2019 12:00	5.02	34.27	14.69	14.44	29.07	0
5/26/2019 12:15	2.455	350	55.24	15.41	29.07	0
5/26/2019 12:30	2.398	331.9	29.2	15.67	29.07	0
5/26/2019 12:45	4.516	34.8	12.4	15.49	29.07	0
5/26/2019 13:00	5.446	28.05	13.19	15.5	29.05	0
5/26/2019 13:15	4.995	30.5	13.52	15.63	29.05	0
5/26/2019 13:30	6.12	17.01	9.26	15.87	29.05	0
5/26/2019 13:45	5.592	29.81	10.84	16.15	29.05	0
5/26/2019 14:00	5.431	11.81	15.63	16.41	29.04	0
5/26/2019 14:15	3.933	21.53	15.25	16.78	29.04	0
5/26/2019 14:30	3.687	322	17.2	17.86	29.04	0
5/26/2019 14:45	4.215	304.4	15.62	18.34	29.04	0
5/26/2019 15:00	5.358	317.3	19.84	18.36	29.04	0
5/26/2019 15:15	7.854	312.8	6.628	18.41	29.04	0
5/26/2019 15:30	6.528	310.6	13.34	18.51	29.04	0
5/26/2019 15:45	7.361	306.7	11.2	19.19	29.04	0
5/26/2019 16:00	6.84	324.5	34.37	19.76	29.03	0
5/26/2019 16:15	6.785	13.73	13.66	19.72	29.03	0
5/26/2019 16:30	7.296	12.04	11.92	19.28	29.03	0
5/26/2019 16:45	6.844	16.27	10.2	19.71	29.03	0
5/26/2019 17:00	6.723	13.33	12.71	19.96	29.05	0
5/26/2019 17:15	7.752	9.47	12.73	20.2	29.05	0
5/26/2019 17:30	8.1	1.583	11.51	20.08	29.05	0
5/26/2019 17:45	6.738	6.091	12.33	20.06	29.05	0

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5/26/2019 18:00	6.523	2.441	11.68	20.21	29.04	0
5/26/2019 18:15	5.556	334.8	23.15	20.44	29.04	0
5/26/2019 18:30	7.243	314.7	5.33	20.36	29.04	0
5/26/2019 18:45	6.562	311.5	6.709	20.17	29.04	0
5/26/2019 19:00	6.634	316.7	4.848	19.83	29.07	0
5/26/2019 19:15	6.22	319	10.99	19.37	29.07	0
5/26/2019 19:30	3.693	331	17.34	19.21	29.07	0
5/26/2019 19:45	0.625	25.51	4.141	18.65	29.07	0
5/26/2019 20:00	1.439	20.33	4.63	18.57	29.08	0
5/26/2019 20:15	3.701	29.65	8.44	17.16	29.08	0
5/26/2019 20:30	4.376	27.52	6.615	16.86	29.08	0
5/26/2019 20:45	4.649	25.9	4.824	16.4	29.08	0
5/26/2019 21:00	4.234	31.41	4.693	16.29	29.1	0
5/26/2019 21:15	3.069	19.09	5.07	16.13	29.1	0
5/26/2019 21:30	4.12	19.48	6.095	16.3	29.1	0
5/26/2019 21:45	3.93	46.8	15.15	15.83	29.1	0
5/26/2019 22:00	2.83	75.34	11.16	15.6	29.1	0
5/26/2019 22:15	2.136	96.3	26.73	15.73	29.1	0
5/26/2019 22:30	3.566	63.41	17.37	15.77	29.1	0
5/26/2019 22:45	3.026	99.4	6.368	14.62	29.1	0
5/26/2019 23:00	2.601	75.86	20.44	15.74	29.09	0
5/26/2019 23:15	2.543	46.21	3.508	15.25	29.09	0
5/26/2019 23:30	2.356	55.37	8.52	15.02	29.09	0
5/26/2019 23:45	2.937	53.77	6.849	15.42	29.09	0
5/27/2019 0:00	1.675	95.8	10.74	16.01	29.11	0
5/27/2019 0:15	0.712	106.4	0.107	15.3	29.11	0
5/27/2019 0:30	3.317	200.1	12.2	15.35	29.11	0
5/27/2019 0:45	7.175	188.3	11.2	14.36	29.11	0
5/27/2019 1:00	6.224	199	9.52	14.23	29.11	0
5/27/2019 1:15	6.158	194.1	10.01	14.04	29.11	0
5/27/2019 1:30	4.716	165.4	14.33	13.81	29.11	0
5/27/2019 1:45	4.624	161.4	7.991	14.01	29.11	0
5/27/2019 2:00	6.451	187.2	5.701	13.59	29.11	0
5/27/2019 2:15	5.365	168.6	9.5	13.5	29.11	0
5/27/2019 2:30	6.177	184.6	12.89	13.33	29.11	0
5/27/2019 2:45	6.693	177.1	6.745	13.61	29.11	0
5/27/2019 3:00	2.532	146.9	18.1	13.37	29.12	0
5/27/2019 3:15	2.454	67.19	29.49	12.94	29.12	0
5/27/2019 3:30	2.878	34.77	11.68	12.45	29.12	0
5/27/2019 3:45	2.571	90.3	19.17	12.98	29.12	0
5/27/2019 4:00	2.676	124.9	13.01	12.98	29.13	0
5/27/2019 4:15	3.295	150.5	10.68	13.26	29.13	0
5/27/2019 4:30	4.139	141.8	8.51	13.21	29.13	0
5/27/2019 4:45	3.222	122.1	9.17	13.4	29.13	0
5/27/2019 5:00	2.93	114.5	7.714	13.43	29.12	0
5/27/2019 5:15	2.967	120.5	2.317	13.7	29.12	0
5/27/2019 5:30	4.197	121.8	4.375	14.04	29.12	0

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5/27/2019 5:45	3.941	130.1	6.554	14.3	29.12	0
5/27/2019 6:00	3.531	142.9	5.813	14.49	29.14	0
5/27/2019 6:15	3.115	156.1	6.264	14.95	29.14	0
5/27/2019 6:30	3.128	179.7	6.178	14.71	29.14	0
5/27/2019 6:45	3.015	194	8.44	14.72	29.14	0
5/27/2019 7:00	4.402	208.5	7.498	14.79	29.16	0
5/27/2019 7:15	4.176	222	7.534	14.7	29.16	0
5/27/2019 7:30	3.528	206.9	15.11	15.14	29.16	0
5/27/2019 7:45	2.794	198.1	18.43	15.87	29.16	0
5/27/2019 8:00	3.301	195.6	20.06	15.98	29.15	0
5/27/2019 8:15	2.337	205	28.48	16.73	29.15	0
5/27/2019 8:30	3.442	219.7	17.83	16.82	29.15	0
5/27/2019 8:45	4.242	191.5	17.16	16.98	29.15	0
5/27/2019 9:00	4.987	179.4	16.81	17.64	29.17	0
5/27/2019 9:15	3.49	197.3	40.73	17.83	29.17	0
5/27/2019 9:30	4.209	202.3	38.45	18.36	29.17	0
5/27/2019 9:45	4.701	191.2	31.23	18.67	29.17	0
5/27/2019 10:00	2.758	206.7	46.37	18.95	29.17	0
5/27/2019 10:15	4.466	216.2	20.12	19.28	29.17	0
5/27/2019 10:30	5.531	173.9	18.87	19.79	29.17	0
5/27/2019 10:45	3.775	207.6	55.91	19.86	29.17	0
5/27/2019 11:00	4.817	206.4	48.38	19.99	29.18	0
5/27/2019 11:15	5.92	202.2	13.66	20.29	29.18	0
5/27/2019 11:30	5.601	195.9	19.16	20.46	29.18	0
5/27/2019 11:45	5.679	237.5	27.84	20.91	29.18	0
5/27/2019 12:00	5.513	256.2	37.93	21.28	29.16	0
5/27/2019 12:15	7.542	277.8	14.8	21.31	29.16	0
5/27/2019 12:30	8.34	275.4	14.25	21.44	29.16	0
5/27/2019 12:45	8.67	285.3	19.54	21.69	29.16	0
5/27/2019 13:00	6.88	282.2	19	22.11	29.17	0
5/27/2019 13:15	7.246	272.8	19.55	22.19	29.17	0
5/27/2019 13:30	7.839	250	14.06	22.29	29.17	0
5/27/2019 13:45	8.84	264.8	14.47	22.79	29.17	0
5/27/2019 14:00	7.226	261.5	24.27	22.63	29.17	0
5/27/2019 14:15	8.19	244.7	14.35	23.04	29.17	0
5/27/2019 14:30	7.513	254.5	20.58	22.92	29.17	0
5/27/2019 14:45	6.211	258.1	38.92	22.88	29.17	0
5/27/2019 15:00	8.06	247.5	21.92	23.13	29.13	0
5/27/2019 15:15	7.611	255.8	29.63	23.38	29.13	0
5/27/2019 15:30	9.25	238	15.93	23.39	29.13	0
5/27/2019 15:45	9.63	270.4	12.41	23.31	29.13	0
5/27/2019 16:00	8.53	253.4	22.43	23.3	29.15	0
5/27/2019 16:15	9.63	268.1	13.41	23.33	29.15	0
5/27/2019 16:30	8.42	275.1	14.44	23.22	29.15	0
5/27/2019 16:45	7.554	262.6	21.65	23.34	29.15	0
5/27/2019 17:00	8.77	234.4	13.18	23.07	29.15	0
5/27/2019 17:15	9.64	233.4	15.33	22.89	29.15	0



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5/27/2019 17:30	10.17	228.1	10.77	22.61	29.15	0
5/27/2019 17:45	10.73	229.6	7.078	22.3	29.15	0
5/27/2019 18:00	9.79	236.1	10.76	22.1	29.16	0
5/27/2019 18:15	12.4	231.8	8.34	21.52	29.16	0
5/27/2019 18:30	10.98	248.5	6.463	20.96	29.16	0
5/27/2019 18:45	10.66	250.4	6.998	20.36	29.16	0
5/27/2019 19:00	9.15	247.9	7.827	19.71	29.17	0
5/27/2019 19:15	6.027	250.8	11.71	19	29.17	0
5/27/2019 19:30	5.836	233.1	8.2	18.33	29.17	0
5/27/2019 19:45	6.474	230.2	4.948	17.75	29.17	0
5/27/2019 20:00	4.966	237.1	6.094	17.21	29.18	0
5/27/2019 20:15	4.596	237	4.848	16.89	29.18	0
5/27/2019 20:30	5.707	244.3	5.365	16.31	29.18	0
5/27/2019 20:45	7.379	254.1	5.825	15.78	29.18	0
5/27/2019 21:00	8.03	250.6	5.329	15.21	29.21	0
5/27/2019 21:15	7.012	249.9	5.473	14.79	29.21	0
5/27/2019 21:30	6.56	231.6	6.363	14.62	29.21	0
5/27/2019 21:45	5.761	210.3	9.77	14.23	29.21	0
5/27/2019 22:00	5.811	190.7	6.739	13.85	29.23	0
5/27/2019 22:15	6.86	198.5	7.375	13.71	29.23	0
5/27/2019 22:30	6.746	183.4	6.265	13.28	29.23	0
5/27/2019 22:45	6.944	183	7.05	12.81	29.23	0
5/27/2019 23:00	5.119	152.2	14.27	12.13	29.24	0
5/27/2019 23:15	5.173	149.9	10.96	11.68	29.24	0
5/27/2019 23:30	4.383	139.9	9.73	11.38	29.24	0
5/27/2019 23:45	4.409	136.4	9.79	11.36	29.24	0
5/28/2019 0:00	6.557	143.2	7.075	11.66	29.27	0
5/28/2019 0:15	6.842	148.4	11.31	11.67	29.27	0
5/28/2019 0:30	6.889	174.7	8.5	12.05	29.27	0
5/28/2019 0:45	7.893	185.6	6.966	12.22	29.27	0
5/28/2019 1:00	8.08	195.2	5.501	12.13	29.27	0
5/28/2019 1:15	8.87	191.1	6.437	12.02	29.27	0
5/28/2019 1:30	8.71	190.1	8.74	12.01	29.27	0
5/28/2019 1:45	7.864	197.3	7.09	11.94	29.27	0
5/28/2019 2:00	7.287	192.9	9.4	11.85	29.26	0
5/28/2019 2:15	6.51	202.8	9.99	11.79	29.26	0
5/28/2019 2:30	5.562	200.5	11.39	11.77	29.26	0
5/28/2019 2:45	5.222	194.4	8.3	11.76	29.26	0
5/28/2019 3:00	6.303	195.3	8.06	11.69	29.29	0
5/28/2019 3:15	5.571	187.5	8.87	11.54	29.29	0
5/28/2019 3:30	5.312	180.5	7.953	11.35	29.29	0
5/28/2019 3:45	4.432	176.7	7.82	11.23	29.29	0
5/28/2019 4:00	5.154	171.2	4.983	11.09	29.29	0
5/28/2019 4:15	4.229	169.3	4.081	11.08	29.29	0
5/28/2019 4:30	3.991	163.6	6.958	11.07	29.29	0
5/28/2019 4:45	5.236	175.2	5.271	11.09	29.29	0
5/28/2019 5:00	3.809	162.8	9.04	11.06	29.3	0

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5/28/2019 5:15	3.37	157.8	38.53	11.04	29.3	0
5/28/2019 5:30	2.286	177.2	2.386	11.13	29.3	0
5/28/2019 5:45	0.034	179.1	0.851	11.14	29.3	0
5/28/2019 6:00	1.926	172.8	7.527	11.19	29.29	0
5/28/2019 6:15	5.128	177.2	7.416	11.22	29.29	0
5/28/2019 6:30	3.936	169.7	13.45	11.4	29.29	0
5/28/2019 6:45	3.861	167.3	18.68	11.5	29.29	0
5/28/2019 7:00	3.171	182.4	18.69	11.64	29.3	0
5/28/2019 7:15	4.275	188.1	10.93	11.66	29.3	0
5/28/2019 7:30	3.352	181.8	13.1	11.85	29.3	0
5/28/2019 7:45	3.198	202.7	21.45	11.96	29.3	0
5/28/2019 8:00	2.322	213	14.77	12.23	29.31	0
5/28/2019 8:15	2.38	190.5	19.62	12.5	29.31	0
5/28/2019 8:30	2.542	227.6	22.07	12.64	29.31	0
5/28/2019 8:45	2.567	196.8	19.03	12.86	29.31	0
5/28/2019 9:00	3.698	233.4	15.1	12.9	29.31	0
5/28/2019 9:15	4.115	235.9	16.37	13.08	29.31	0
5/28/2019 9:30	4.402	210.7	21.25	13.25	29.31	0
5/28/2019 9:45	4.792	205.5	16.44	13.17	29.31	0
5/28/2019 10:00	5.063	195.7	11.52	13.28	29.29	0
5/28/2019 10:15	5.541	198.7	21.85	13.67	29.29	0
5/28/2019 10:30	7.135	208.8	12.05	13.66	29.29	0
5/28/2019 10:45	6.375	209.9	15.12	13.6	29.29	0
5/28/2019 11:00	6.663	194.3	9.33	13.67	29.28	0
5/28/2019 11:15	6.247	224.3	14.23	13.74	29.28	0
5/28/2019 11:30	5.815	225.3	9.21	13.67	29.28	0
5/28/2019 11:45	4.812	233.4	17.56	13.79	29.28	0
5/28/2019 12:00	6.258	240.7	11.23	13.74	29.3	0
5/28/2019 12:15	4.277	230.8	23.92	13.92	29.3	0
5/28/2019 12:30	3.088	212	32.02	14.05	29.3	0
5/28/2019 12:45	4.187	240.8	35.73	14.26	29.3	0
5/28/2019 13:00	3.962	227.7	23.62	14.39	29.29	0
5/28/2019 13:15	4.795	206.1	16.7	14.58	29.29	0
5/28/2019 13:30	5.75	200.9	19.55	14.67	29.29	0
5/28/2019 13:45	3.437	210	20.27	14.65	29.29	0
5/28/2019 14:00	2.582	216.8	31.93	14.98	29.29	0
5/28/2019 14:15	3.001	204.1	40.75	15.18	29.29	0
5/28/2019 14:30	5.016	198.1	24.58	15.17	29.29	0
5/28/2019 14:45	4.838	263.5	15.05	15.13	29.29	0
5/28/2019 15:00	2.626	224.1	38.47	15.24	29.28	0
5/28/2019 15:15	2.935	235.7	41.5	15.62	29.28	0
5/28/2019 15:30	3.357	210.4	42.82	15.56	29.28	0
5/28/2019 15:45	3.539	219.3	23.44	15.75	29.28	0
5/28/2019 16:00	2.566	153.1	49.58	15.98	29.27	0
5/28/2019 16:15	3.946	162.5	31.2	16.01	29.27	0
5/28/2019 16:30	2.507	115.8	28.03	15.97	29.27	0
5/28/2019 16:45	3.157	186.4	25.98	16.33	29.27	0

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5/28/2019 17:00	3.034	150.3	32.82	16.29	29.25	0
5/28/2019 17:15	2.329	97.3	40.87	16.29	29.25	0
5/28/2019 17:30	1.026	26.76	48.99	16.46	29.25	0
5/28/2019 17:45	0.957	98.1	58.47	16.39	29.25	0
5/28/2019 18:00	3.296	129.6	18.67	16.01	29.23	0
5/28/2019 18:15	4.41	120.7	13.08	15.92	29.23	0
5/28/2019 18:30	3.12	114	11.33	16.01	29.23	0
5/28/2019 18:45	2.011	120.5	11.99	15.96	29.23	0
5/28/2019 19:00	2.471	120.1	9.1	15.77	29.21	0
5/28/2019 19:15	4.032	115.7	10.07	15.3	29.21	0
5/28/2019 19:30	3.612	126.9	5.166	15.22	29.21	0
5/28/2019 19:45	4.721	113.8	9.33	15.06	29.21	0
5/28/2019 20:00	4.975	103.2	5.694	14.72	29.24	0
5/28/2019 20:15	4.045	85.7	9.49	14.72	29.24	0
5/28/2019 20:30	2.155	58.59	4.831	14.78	29.24	0
5/28/2019 20:45	1.701	49	1.74	14.7	29.24	0
5/28/2019 21:00	2.496	59.71	6.424	14.64	29.22	0
5/28/2019 21:15	2.837	106.5	19.73	14.63	29.22	0
5/28/2019 21:30	2.239	128.2	28.16	14.65	29.22	0
5/28/2019 21:45	1.574	131.3	8.75	14.41	29.22	0
5/28/2019 22:00	2.481	109	14.23	14.08	29.22	0
5/28/2019 22:15	5.784	207.7	46.66	13.67	29.22	0
5/28/2019 22:30	5.94	236.3	4.54	13.78	29.22	0
5/28/2019 22:45	5.47	235.4	5.772	13.79	29.22	0
5/28/2019 23:00	5.672	246.1	6.408	13.38	29.23	0
5/28/2019 23:15	2.344	209.8	47.31	12.97	29.23	0
5/28/2019 23:30	1.913	94.7	2.032	12.31	29.23	0
5/28/2019 23:45	2.939	211.1	22.48	12.82	29.23	0
5/29/2019 0:00	2.659	200.4	17.43	12.91	29.23	0
5/29/2019 0:15	3.145	205.4	3.802	12.76	29.23	0
5/29/2019 0:30	2.731	177	4.366	12.44	29.23	0
5/29/2019 0:45	4.146	175.7	11.21	12.41	29.23	0
5/29/2019 1:00	6.101	160	3.477	12.43	29.25	0
5/29/2019 1:15	6.262	191.1	6.214	12.33	29.25	0
5/29/2019 1:30	5.482	201	3.341	12.22	29.25	0
5/29/2019 1:45	4.042	198.7	3.662	12.18	29.25	0
5/29/2019 2:00	3.712	220.8	8.71	12.15	29.25	0
5/29/2019 2:15	4.435	227.6	5.802	12.09	29.25	0
5/29/2019 2:30	5.093	225.2	4.307	11.99	29.25	0
5/29/2019 2:45	4.861	217.3	6.067	11.94	29.25	0
5/29/2019 3:00	4.855	222.9	9.07	11.77	29.24	0
5/29/2019 3:15	6.463	212.7	6.001	11.52	29.24	0
5/29/2019 3:30	6.195	208.6	7.111	11.35	29.24	0
5/29/2019 3:45	5.06	194.4	9.25	11.16	29.24	0
5/29/2019 4:00	3.907	333.3	34.29	11.01	29.24	0
5/29/2019 4:15	5.183	235.3	58.2	10.9	29.24	0
5/29/2019 4:30	4.904	207.6	5.921	10.79	29.24	0

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5/29/2019 4:45	3.32	177	13.45	10.68	29.24	0
5/29/2019 5:00	3.947	174	14.44	10.6	29.25	0
5/29/2019 5:15	4.73	187.4	7.233	10.58	29.25	0
5/29/2019 5:30	4.214	186.6	11.06	10.58	29.25	0
5/29/2019 5:45	3.9	153.4	7.161	10.56	29.25	0
5/29/2019 6:00	3.536	154.5	7.374	10.61	29.25	0
5/29/2019 6:15	3.773	154.2	7.52	10.68	29.25	0
5/29/2019 6:30	4.2	171.3	13.15	10.83	29.25	0
5/29/2019 6:45	4.625	150.3	9.39	10.88	29.25	0
5/29/2019 7:00	4.098	154	7.863	11.05	29.25	0
5/29/2019 7:15	3.881	149.3	10.96	11.17	29.25	0
5/29/2019 7:30	4.685	147.8	8.96	11.37	29.25	0
5/29/2019 7:45	4.154	149.9	8.35	11.5	29.25	0
5/29/2019 8:00	3.468	187	25.64	11.69	29.24	0
5/29/2019 8:15	4.821	188.4	11.17	11.75	29.24	0
5/29/2019 8:30	5.038	161.1	20.93	11.97	29.24	0
5/29/2019 8:45	3.864	165.1	28.12	12.18	29.24	0
5/29/2019 9:00	3.663	149	33.28	12.04	29.23	0
5/29/2019 9:15	3.147	142.7	18.83	12.33	29.23	0
5/29/2019 9:30	4.612	155.4	12.28	12.39	29.23	0
5/29/2019 9:45	4.497	166.2	25.39	12.45	29.23	0
5/29/2019 10:00	3.37	170.7	22.65	12.58	29.23	0
5/29/2019 10:15	2.667	121.7	29.05	12.86	29.23	0
5/29/2019 10:30	3.267	211.3	43.38	13.34	29.23	0
5/29/2019 10:45	2.912	254.8	48.33	13.29	29.23	0
5/29/2019 11:00	4.155	206.5	29.51	13.73	29.23	0
5/29/2019 11:15	2.275	191.2	34.15	14.16	29.23	0
5/29/2019 11:30	3.372	244.3	25.01	14.33	29.23	0
5/29/2019 11:45	1.353	290.7	38.5	14.85	29.23	0
5/29/2019 12:00	1.709	317.8	39.84	15.34	29.22	0
5/29/2019 12:15	2.79	307.4	33.09	15.08	29.22	0
5/29/2019 12:30	3.171	318.8	49.53	15.59	29.22	0
5/29/2019 12:45	4.447	286.1	23.3	15.75	29.22	0
5/29/2019 13:00	4.526	308.3	15.84	15.97	29.2	0
5/29/2019 13:15	5.109	306.3	22.54	16.41	29.2	0
5/29/2019 13:30	4.946	322.2	24.04	16.57	29.2	0
5/29/2019 13:45	5.402	278.4	21.68	16.52	29.2	0
5/29/2019 14:00	3.849	315.7	17.8	16.91	29.2	0
5/29/2019 14:15	2.818	5.307	42.16	16.64	29.2	0
5/29/2019 14:30	2.481	6.546	23.09	17.03	29.2	0
5/29/2019 14:45	2.596	256.5	35.53	17.88	29.2	0
5/29/2019 15:00	3.029	276.4	37.94	18.4	29.19	0
5/29/2019 15:15	3.226	222.3	35.33	18.12	29.19	0
5/29/2019 15:30	2.772	319.5	57.65	18.46	29.19	0
5/29/2019 15:45	1.959	349.1	64.42	19.29	29.19	0
5/29/2019 16:00	2.839	320.3	37.73	19.4	29.18	0
5/29/2019 16:15	3.084	275.6	29.12	19.45	29.18	0

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5/29/2019 16:30	6.757	274.7	12.09	19.01	29.18	0
5/29/2019 16:45	4.549	276.2	22.37	19.06	29.18	0
5/29/2019 17:00	6.203	264.1	17.09	18.98	29.16	0
5/29/2019 17:15	6.173	285	20.3	19.04	29.16	0
5/29/2019 17:30	5.617	323	12.21	18.88	29.16	0
5/29/2019 17:45	5.532	322.9	7.691	18.46	29.16	0
5/29/2019 18:00	4.261	315.9	6.712	18.3	29.15	0
5/29/2019 18:15	5.472	302.5	6.569	17.95	29.15	0
5/29/2019 18:30	5.927	309.5	5.964	17.63	29.15	0
5/29/2019 18:45	5.384	314	3.785	17.48	29.15	0
5/29/2019 19:00	3.741	313.5	3.511	17.41	29.15	0
5/29/2019 19:15	2.571	325.7	5.005	17.51	29.15	0
5/29/2019 19:30	1.931	340.9	4.001	17.45	29.15	0
5/29/2019 19:45	3.079	357.6	14.59	17.18	29.15	0
5/29/2019 20:00	3.317	39.92	5.293	16.08	29.15	0
5/29/2019 20:15	3.541	42.79	3.021	15.65	29.15	0
5/29/2019 20:30	2.117	29.3	2.312	15.68	29.15	0
5/29/2019 20:45	1.841	23.38	6.114	15.5	29.15	0
5/29/2019 21:00	1.607	11.1	4.994	15.25	29.15	0
5/29/2019 21:15	0.63	5.143	10.08	15.08	29.15	0
5/29/2019 21:30	1.497	29.95	4.161	15.02	29.15	0
5/29/2019 21:45	0.832	31.76	0.063	15.04	29.15	0
5/29/2019 22:00	0.401	31.77	0.101	15.3	29.15	0
5/29/2019 22:15	1.977	248.9	13.54	14.68	29.15	0
5/29/2019 22:30	3.09	327.7	26.02	14.48	29.15	0
5/29/2019 22:45	2.309	13.07	4.393	13.61	29.15	0
5/29/2019 23:00	0.505	21.71	2.298	13.71	29.14	0
5/29/2019 23:15	0.436	28.31	1.063	14.07	29.14	0
5/29/2019 23:30	0.274	31.37	2.722	14.09	29.14	0
5/29/2019 23:45	2.659	200.8	46.59	14.43	29.14	0
5/30/2019 0:00	3.353	205.1	3.825	14.28	29.14	0
5/30/2019 0:15	3.845	215.9	4.121	13.46	29.14	0
5/30/2019 0:30	4.233	206	5.948	13.1	29.14	0
5/30/2019 0:45	4.54	203.2	5.834	13.17	29.14	0
5/30/2019 1:00	3.093	185.4	1.251	12.85	29.15	0
5/30/2019 1:15	1.95	178.7	2.747	12.62	29.15	0
5/30/2019 1:30	1.912	171.6	5.423	12.42	29.15	0
5/30/2019 1:45	2.829	192.7	9.32	12.37	29.15	0
5/30/2019 2:00	3.92	208	8.2	12.07	29.17	0
5/30/2019 2:15	3.748	188.6	7.024	11.8	29.17	0
5/30/2019 2:30	3.879	192.9	9.53	11.55	29.17	0
5/30/2019 2:45	4.61	199.8	3.059	11.42	29.17	0
5/30/2019 3:00	3.913	190.5	3.074	11.42	29.15	0
5/30/2019 3:15	3.936	197.5	7.241	11.46	29.15	0
5/30/2019 3:30	3.624	212.9	5.103	11.56	29.15	0
5/30/2019 3:45	2.543	216.5	7.126	11.76	29.15	0
5/30/2019 4:00	2.726	176.1	21.78	11.56	29.18	0

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5/30/2019 4:15	2.99	173.5	18.66	11.32	29.18	0
5/30/2019 4:30	3.24	190.3	3.773	11.38	29.18	0
5/30/2019 4:45	2.654	207.3	11.87	11.41	29.18	0
5/30/2019 5:00	2.314	193.5	10.24	11.57	29.17	0
5/30/2019 5:15	1.965	216.6	6.239	11.65	29.17	0
5/30/2019 5:30	1.541	186.6	18.69	11.68	29.17	0
5/30/2019 5:45	1.532	161.1	12.83	11.67	29.17	0
5/30/2019 6:00	2.083	175.1	21.06	11.71	29.18	0
5/30/2019 6:15	2.901	208.7	10.64	11.72	29.18	0
5/30/2019 6:30	1.726	189	35.58	11.82	29.18	0
5/30/2019 6:45	2.086	159.6	22.35	11.86	29.18	0
5/30/2019 7:00	2.752	165.1	32.49	11.92	29.2	0
5/30/2019 7:15	2.499	186.9	11.92	12.03	29.2	0
5/30/2019 7:30	1.213	115.3	58.6	12.14	29.2	0
5/30/2019 7:45	2.349	198.6	24.49	12.14	29.2	0
5/30/2019 8:00	2.241	274.1	26.65	12.4	29.21	0
5/30/2019 8:15	1.73	295.4	11.46	12.68	29.21	0
5/30/2019 8:30	1.82	271.7	20.92	12.79	29.21	0
5/30/2019 8:45	1.674	218.6	25.64	12.96	29.21	0
5/30/2019 9:00	2.866	200.3	17.51	13	29.21	0
5/30/2019 9:15	2.877	193.9	25.07	13.08	29.21	0
5/30/2019 9:30	1.996	206.3	39.64	13.38	29.21	0
5/30/2019 9:45	2.154	251.2	35.83	13.68	29.21	0
5/30/2019 10:00	3.168	247.1	19.79	13.9	29.21	0
5/30/2019 10:15	2.246	195.9	26.7	14.07	29.21	0
5/30/2019 10:30	2.569	252.8	15.48	14.52	29.21	0
5/30/2019 10:45	2.527	279.7	54.2	14.89	29.21	0
5/30/2019 11:00	2.053	344.9	53.09	15.83	29.2	0
5/30/2019 11:15	1.923	304.2	42.63	16.04	29.2	0
5/30/2019 11:30	2.3	206.4	44.74	16.9	29.2	0
5/30/2019 11:45	2.388	237.4	58.28	17.55	29.2	0
5/30/2019 12:00	3.588	268.5	29.25	17.7	29.2	0
5/30/2019 12:15	5.399	253.2	25.17	18.27	29.2	0
5/30/2019 12:30	7.729	261.1	15.74	18.77	29.2	0
5/30/2019 12:45	6.88	263.4	26.67	18.99	29.2	0
5/30/2019 13:00	8.04	258.8	16.28	19.23	29.19	0
5/30/2019 13:15	7.593	262.9	21.58	19.33	29.19	0
5/30/2019 13:30	7.066	269	19.27	19.32	29.19	0
5/30/2019 13:45	5.61	258.2	24.8	19.39	29.19	0
5/30/2019 14:00	5.362	254.3	26.58	19.95	29.19	0
5/30/2019 14:15	6.578	229	33.79	20.33	29.19	0
5/30/2019 14:30	6.688	240.6	21.41	20.83	29.19	0
5/30/2019 14:45	5.188	238.1	22.33	21.02	29.19	0
5/30/2019 15:00	7.163	234.4	19.05	21.24	29.18	0
5/30/2019 15:15	5.831	240.8	22.73	21.56	29.18	0
5/30/2019 15:30	7.638	265.3	20.38	21.68	29.18	0
5/30/2019 15:45	5.992	285.4	17.24	21.99	29.18	0

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5/30/2019 16:00	7.356	287	14.11	22.13	29.19	0
5/30/2019 16:15	7.147	280.2	14.93	22.06	29.19	0
5/30/2019 16:30	6.28	266.2	16.26	22.18	29.19	0
5/30/2019 16:45	6.295	278.1	21.25	22.2	29.19	0
5/30/2019 17:00	5.648	302.3	12.32	22.41	29.17	0
5/30/2019 17:15	6.923	307.4	10.97	22.31	29.17	0
5/30/2019 17:30	7.456	318.9	19.3	22.17	29.17	0
5/30/2019 17:45	7.131	314.1	34.52	22.21	29.17	0
5/30/2019 18:00	6.639	298.3	9.75	22.13	29.17	0
5/30/2019 18:15	5.378	304.1	13.18	22.03	29.17	0
5/30/2019 18:30	5.883	313.3	8.03	21.79	29.17	0
5/30/2019 18:45	6.24	302.6	11.45	21.56	29.17	0
5/30/2019 19:00	6.478	294.3	7.225	21.27	29.18	0
5/30/2019 19:15	4.727	286.2	6.482	20.98	29.18	0
5/30/2019 19:30	4.781	290.1	4.143	20.49	29.18	0
5/30/2019 19:45	5.786	292.7	3.199	19.86	29.18	0
5/30/2019 20:00	6.575	298.2	3.388	19.25	29.19	0
5/30/2019 20:15	6.004	302.2	3.298	18.93	29.19	0
5/30/2019 20:30	3.412	323.1	10.56	19.18	29.19	0
5/30/2019 20:45	3.022	340.3	7.798	19.4	29.19	0
5/30/2019 21:00	2.966	340.4	10.92	19.19	29.19	0
5/30/2019 21:15	2.883	359.4	5.634	18.48	29.19	0
5/30/2019 21:30	1.802	19.08	8.42	18.16	29.19	0
5/30/2019 21:45	1.218	355.2	76.87	18.13	29.19	0
5/30/2019 22:00	0.805	223.9	7.116	18.6	29.2	0
5/30/2019 22:15	1.449	174	25.25	18	29.2	0
5/30/2019 22:30	2.897	145.8	5.284	17.69	29.2	0
5/30/2019 22:45	3.196	150.6	6.214	18.14	29.2	0
5/30/2019 23:00	2.242	158.8	1.946	17.84	29.21	0
5/30/2019 23:15	0.536	158.7	3.652	16.79	29.21	0
5/30/2019 23:30	4.383	219.9	14.3	16	29.21	0
5/30/2019 23:45	5.527	195.1	9.74	16.26	29.21	0
5/31/2019 0:00	4.95	180.3	8.05	15.86	29.25	0
5/31/2019 0:15	5.065	202.5	6.489	15.9	29.25	0
5/31/2019 0:30	1.862	149.5	36.38	15.42	29.25	0
5/31/2019 0:45	1.985	127.9	16.47	15.11	29.25	0
5/31/2019 1:00	3.694	175	9.37	15.21	29.23	0
5/31/2019 1:15	4.592	202.7	4.977	15.01	29.23	0
5/31/2019 1:30	4.719	203.3	5.267	14.41	29.23	0
5/31/2019 1:45	3.706	192.4	8.28	14.3	29.23	0
5/31/2019 2:00	2.962	162.9	11.94	13.81	29.25	0
5/31/2019 2:15	3.448	170.2	10.85	13.34	29.25	0
5/31/2019 2:30	4.095	171.5	6.219	13.28	29.25	0
5/31/2019 2:45	4.711	182.6	4.442	13.01	29.25	0
5/31/2019 3:00	5.493	194	4.047	12.77	29.24	0
5/31/2019 3:15	4.739	204.7	4.826	12.76	29.24	0
5/31/2019 3:30	3.827	189.9	37.89	12.48	29.24	0

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5/31/2019 3:45	3.678	180.6	33.82	12.26	29.24	0
5/31/2019 4:00	5.232	191.9	2.859	12.09	29.26	0
5/31/2019 4:15	4.21	178.5	6.557	11.83	29.26	0
5/31/2019 4:30	3.222	178.5	6.639	11.68	29.26	0
5/31/2019 4:45	1.918	179.3	1.796	11.76	29.26	0
5/31/2019 5:00	1.636	179.2	3.626	11.91	29.27	0
5/31/2019 5:15	2.843	183.7	9.77	12.07	29.27	0
5/31/2019 5:30	3.383	205.5	6.039	12.11	29.27	0
5/31/2019 5:45	3.848	188.3	6.181	12.04	29.27	0
5/31/2019 6:00	4.616	193	4.443	11.78	29.26	0
5/31/2019 6:15	4.331	197.2	5.524	11.65	29.26	0
5/31/2019 6:30	4.155	204.9	9.72	11.65	29.26	0
5/31/2019 6:45	2.982	216.2	11.18	11.82	29.26	0
5/31/2019 7:00	2.773	211.6	10.48	11.99	29.28	0
5/31/2019 7:15	2.659	204.9	9.49	12.12	29.28	0
5/31/2019 7:30	2.538	206.1	16.95	12.26	29.28	0
5/31/2019 7:45	2.327	199.1	29	12.51	29.28	0
5/31/2019 8:00	2.016	277.6	21.64	12.55	29.29	0
5/31/2019 8:15	1.636	301.6	23.72	12.56	29.29	0
5/31/2019 8:30	2.333	276.3	20.79	12.82	29.29	0
5/31/2019 8:45	1.335	345.7	20	12.91	29.29	0
5/31/2019 9:00	1.989	252.8	31.95	13.27	29.27	0
5/31/2019 9:15	2.02	221.8	37.52	13.48	29.27	0
5/31/2019 9:30	2.761	195.5	33.37	13.56	29.27	0
5/31/2019 9:45	3.414	230.8	12.24	13.83	29.27	0
5/31/2019 10:00	1.64	145.4	37.25	14.33	29.29	0
5/31/2019 10:15	3.034	188	36.74	14.77	29.29	0
5/31/2019 10:30	3.043	170	22.99	14.93	29.29	0
5/31/2019 10:45	3.756	205.2	31.32	15.34	29.29	0
5/31/2019 11:00	3.472	209.2	42.63	16.01	29.27	0
5/31/2019 11:15	2.544	250.4	59.6	16.63	29.27	0
5/31/2019 11:30	4.663	237.8	28.31	17.24	29.27	0
5/31/2019 11:45	4.901	252.2	25.6	17.96	29.27	0
5/31/2019 12:00	5.804	240.5	29.32	18.42	29.27	0
5/31/2019 12:15	5.587	266.4	27.78	18.78	29.27	0
5/31/2019 12:30	6.939	248.8	16.27	18.95	29.27	0
5/31/2019 12:45	6.169	231.8	18.1	19.06	29.27	0
5/31/2019 13:00	5.503	261.2	23.29	19.57	29.24	0
5/31/2019 13:15	6.331	264.1	17.37	19.9	29.24	0
5/31/2019 13:30	6.514	266.8	16.44	20.19	29.24	0
5/31/2019 13:45	5.955	256.2	20.3	20.73	29.24	0
5/31/2019 14:00	6.16	256.4	22.26	21.02	29.25	0
5/31/2019 14:15	6.94	257.5	21.4	21.78	29.25	0
5/31/2019 14:30	6.369	251.8	20.71	21.86	29.25	0
5/31/2019 14:45	7.163	289.1	17.58	22.2	29.25	0
5/31/2019 15:00	7.194	275.8	15.05	22.13	29.23	0
5/31/2019 15:15	6.881	264.9	16.29	22.42	29.23	0



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5/31/2019 15:30	5.824	284.6	21.56	22.91	29.23	0
5/31/2019 15:45	5.639	278.4	20.91	22.93	29.23	0
5/31/2019 16:00	4.927	246.2	30.93	23.11	29.2	0
5/31/2019 16:15	4.562	316.6	37.29	23.42	29.2	0
5/31/2019 16:30	3.519	272.2	28.52	23.53	29.2	0
5/31/2019 16:45	2.908	254.8	59.35	23.77	29.2	0
5/31/2019 17:00	5.118	278.7	27.94	23.38	29.18	0
5/31/2019 17:15	6.557	255.9	12.45	23.18	29.18	0
5/31/2019 17:30	4.151	271.3	19.22	23.4	29.18	0
5/31/2019 17:45	5.115	248	13.52	23.29	29.18	0
5/31/2019 18:00	5.59	253.3	11.94	23.09	29.19	0
5/31/2019 18:15	5.579	248.4	10.94	22.88	29.19	0
5/31/2019 18:30	5.4	255.8	11.09	22.67	29.19	0
5/31/2019 18:45	3.422	292.3	15.28	22.74	29.19	0
5/31/2019 19:00	5.873	300.4	7.841	22.05	29.17	0
5/31/2019 19:15	5.763	292.3	5.07	21.45	29.17	0
5/31/2019 19:30	6.322	292.7	4.565	20.9	29.17	0
5/31/2019 19:45	6.182	302.3	5.108	20.4	29.17	0
5/31/2019 20:00	4.339	298.1	6.521	20.17	29.2	0
5/31/2019 20:15	3.309	333.3	21.59	19.67	29.2	0
5/31/2019 20:30	5.985	4.625	9.17	19.23	29.2	0
5/31/2019 20:45	5.831	359.1	14.87	19.02	29.2	0
5/31/2019 21:00	5.842	355.8	12.45	18.91	29.19	0
5/31/2019 21:15	6.192	2.421	8	18.81	29.19	0
5/31/2019 21:30	4.537	19.6	9.28	17.45	29.19	0
5/31/2019 21:45	6.599	12.08	5.888	16.75	29.19	0
5/31/2019 22:00	5.637	14.68	7.222	16.99	29.2	0
5/31/2019 22:15	6.739	15.66	5.815	16.61	29.2	0
5/31/2019 22:30	5.507	18.57	4.73	16.4	29.2	0
5/31/2019 22:45	5.402	19.75	4.145	16.81	29.2	0
5/31/2019 23:00	3.489	31.7	16.84	16.47	29.2	0
5/31/2019 23:15	3.861	73.54	6.325	16.05	29.2	0
5/31/2019 23:30	1.967	40.32	23.03	16.07	29.2	0
5/31/2019 23:45	1.59	331	34.81	16.49	29.2	0
6/1/2019 0:00	4.353	241.3	7.67	16.19	29.2	0
6/1/2019 0:15	2.442	251.6	5.846	15.87	29.2	0
6/1/2019 0:30	2.728	201.9	24.79	15.21	29.2	0
6/1/2019 0:45	4.034	159	9.07	15.28	29.2	0
6/1/2019 1:00	1.776	87.4	53.74	14.65	29.22	0
6/1/2019 1:15	3.243	89.3	39.88	14.2	29.22	0
6/1/2019 1:30	7.516	158.2	8.39	13.8	29.22	0
6/1/2019 1:45	6.531	167.6	6.087	13.54	29.22	0
6/1/2019 2:00	6.033	176	7.252	13.46	29.22	0
6/1/2019 2:15	6.286	181.4	5.96	13.31	29.22	0
6/1/2019 2:30	5.734	187.3	7.028	13.17	29.22	0
6/1/2019 2:45	4.561	195.2	16.56	13.23	29.22	0
6/1/2019 3:00	3.433	136.6	8.21	12.7	29.2	0

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6/1/2019 3:15	4.681	165.8	14.63	12.43	29.2	0
6/1/2019 3:30	5.012	199.3	8.95	12.23	29.2	0
6/1/2019 3:45	4.672	192.7	7.228	12.19	29.2	0
6/1/2019 4:00	2.956	164.7	18.77	12.08	29.2	0
6/1/2019 4:15	2.85	135.8	4.055	11.7	29.2	0
6/1/2019 4:30	3.673	167.9	12.65	11.74	29.2	0
6/1/2019 4:45	3.79	160.5	9.63	11.81	29.2	0
6/1/2019 5:00	4.209	176.9	13.88	11.65	29.22	0
6/1/2019 5:15	5.154	210.6	4.477	11.69	29.22	0
6/1/2019 5:30	4.591	219.6	4.015	11.77	29.22	0
6/1/2019 5:45	3.219	250.1	17.3	11.65	29.22	0
6/1/2019 6:00	3.35	255.4	6.375	11.35	29.22	0
6/1/2019 6:15	1.506	242.9	2.394	11.42	29.22	0
6/1/2019 6:30	0.938	251.4	5.206	11.65	29.22	0
6/1/2019 6:45	2.223	242.2	21.74	11.7	29.22	0
6/1/2019 7:00	3.011	209.9	6.232	11.78	29.25	0
6/1/2019 7:15	2.146	174.3	40.17	11.97	29.25	0
6/1/2019 7:30	3.297	131.4	16.25	11.94	29.25	0
6/1/2019 7:45	3.288	191.1	28.48	11.99	29.25	0
6/1/2019 8:00	3.331	218.8	29.98	11.99	29.25	0
6/1/2019 8:15	3.629	234.1	23.98	12.25	29.25	0
6/1/2019 8:30	2.86	222.9	25.86	12.53	29.25	0
6/1/2019 8:45	1.861	227.5	33.24	12.82	29.25	0
6/1/2019 9:00	2.631	272.3	19.31	13.08	29.25	0
6/1/2019 9:15	1.621	277.4	35.54	13.4	29.25	0
6/1/2019 9:30	1.804	266.3	54.84	13.53	29.25	0
6/1/2019 9:45	3.37	190.5	26.17	13.59	29.25	0
6/1/2019 10:00	1.839	239.2	30.58	14.17	29.23	0
6/1/2019 10:15	1.82	213.5	36.69	15.29	29.23	0
6/1/2019 10:30	4.036	214.6	44.39	15.98	29.23	0
6/1/2019 10:45	4.075	232.7	21.16	16.09	29.23	0
6/1/2019 11:00	5.573	244.7	16.13	16.75	29.23	0
6/1/2019 11:15	6.221	248	23.1	17.3	29.23	0
6/1/2019 11:30	6.141	220.2	16.73	17.24	29.23	0
6/1/2019 11:45	7.261	246.3	20.82	17.74	29.23	0
6/1/2019 12:00	4.828	262.6	23.41	17.8	29.2	0
6/1/2019 12:15	4.797	263.7	19.32	18.27	29.2	0
6/1/2019 12:30	4.785	274.9	22.9	18.79	29.2	0
6/1/2019 12:45	4.904	255.4	25.9	18.97	29.2	0
6/1/2019 13:00	4.875	261.8	27.28	19.06	29.2	0
6/1/2019 13:15	6.265	269.3	17.01	19.51	29.2	0
6/1/2019 13:30	8.2	256.5	14.02	19.57	29.2	0
6/1/2019 13:45	8.57	256.1	13.57	19.68	29.2	0
6/1/2019 14:00	9.16	251.2	15.4	19.78	29.17	0
6/1/2019 14:15	7.763	242.5	20.17	20.05	29.17	0
6/1/2019 14:30	8.32	253.6	19.23	20.42	29.17	0
6/1/2019 14:45	7.207	254.7	22.29	20.78	29.17	0

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6/1/2019 15:00	5.665	266.6	34.46	21.22	29.17	0
6/1/2019 15:15	4.615	270.6	22.89	21.9	29.17	0
6/1/2019 15:30	5.403	310	34.49	22.04	29.17	0
6/1/2019 15:45	4.796	283.5	20.58	22.09	29.17	0
6/1/2019 16:00	5.463	337.1	18.18	22.49	29.14	0
6/1/2019 16:15	7.427	325.2	15.53	22.59	29.14	0
6/1/2019 16:30	9.35	302.4	12.48	22.68	29.14	0
6/1/2019 16:45	9.45	305.8	10.14	22.63	29.14	0
6/1/2019 17:00	7.804	303.1	10.57	22.58	29.15	0
6/1/2019 17:15	8.43	305.3	14.25	22.7	29.15	0
6/1/2019 17:30	7.96	318.2	22.06	22.68	29.15	0
6/1/2019 17:45	7.474	308.2	13.27	22.47	29.15	0
6/1/2019 18:00	10.22	306.9	9.55	22.07	29.13	0
6/1/2019 18:15	8.47	323.1	12.96	21.7	29.13	0
6/1/2019 18:30	10.27	346.8	17.35	21.05	29.13	0
6/1/2019 18:45	10.54	347.8	11.75	20.47	29.13	0
6/1/2019 19:00	9.91	349.7	13.34	19.94	29.13	0
6/1/2019 19:15	8.51	343.3	14.69	19.64	29.13	0
6/1/2019 19:30	8.28	354.6	19.12	19.04	29.13	0
6/1/2019 19:45	10.32	5.397	14.48	18.5	29.13	0
6/1/2019 20:00	9.46	355.8	13.32	18.18	29.14	0
6/1/2019 20:15	10.78	3.194	15.76	17.77	29.14	0
6/1/2019 20:30	12.58	12.18	13.9	17.54	29.14	0
6/1/2019 20:45	11.84	23.16	15.91	17.25	29.14	0
6/1/2019 21:00	10.23	30.84	14.41	16.91	29.13	0
6/1/2019 21:15	8.51	25.22	15.46	16.7	29.13	0
6/1/2019 21:30	5.99	33.2	17.36	16.57	29.13	0
6/1/2019 21:45	4.6	6.904	17.64	16.48	29.13	0
6/1/2019 22:00	2.015	30.13	21.75	16.43	29.14	0
6/1/2019 22:15	1.371	19.16	16.52	16.24	29.14	0
6/1/2019 22:30	3.744	24.46	15.83	16.41	29.14	0
6/1/2019 22:45	4.385	21.57	11.1	15.98	29.14	0
6/1/2019 23:00	3.328	21.27	18.88	15.31	29.12	0
6/1/2019 23:15	3.631	13.41	9.65	15.26	29.12	0
6/1/2019 23:30	5.985	27.01	8.34	15.67	29.12	0
6/1/2019 23:45	3.832	17.27	11.28	14.8	29.12	0
6/2/2019 0:00	2.295	316.5	35.17	14.68	29.13	0
6/2/2019 0:15	1.367	318.1	18.94	14.89	29.13	0
6/2/2019 0:30	1.868	348	21.96	14.49	29.13	0
6/2/2019 0:45	0.888	280.2	79.19	14.38	29.13	0
6/2/2019 1:00	4.716	24.03	17.08	13.38	29.12	0
6/2/2019 1:15	8.25	22.97	7.824	12.75	29.12	0
6/2/2019 1:30	8.33	24.12	7.528	12.82	29.12	0
6/2/2019 1:45	5.877	26.6	7.533	12.6	29.12	0
6/2/2019 2:00	5.491	54.78	7.272	12.82	29.1	0
6/2/2019 2:15	4.597	84.6	22.51	13.04	29.1	0
6/2/2019 2:30	3.755	111.7	9.28	12.94	29.1	0

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6/2/2019 2:45	2.946	103.2	10.74	12.98	29.1	0
6/2/2019 3:00	2.2	119.5	29.43	12.52	29.13	0
6/2/2019 3:15	4.948	191.4	4.912	12.49	29.13	0
6/2/2019 3:30	4.116	168.7	10.98	12.11	29.13	0
6/2/2019 3:45	3.65	141.5	4.588	11.8	29.13	0
6/2/2019 4:00	5.305	135.1	3.481	11.38	29.11	0
6/2/2019 4:15	6.029	149.1	9.52	11.21	29.11	0
6/2/2019 4:30	7.011	144.1	5.225	11.1	29.11	0
6/2/2019 4:45	6.68	140.7	3.428	11.04	29.11	0
6/2/2019 5:00	5.972	151.6	11.68	11.17	29.12	0
6/2/2019 5:15	3.057	202.6	12.86	11.66	29.12	0
6/2/2019 5:30	2.442	199.8	6.198	11.87	29.12	0
6/2/2019 5:45	2.437	227.9	18.62	11.85	29.12	0
6/2/2019 6:00	3.062	253.7	9.38	11.68	29.11	0
6/2/2019 6:15	2.634	227.2	11.96	11.87	29.11	0
6/2/2019 6:30	2.243	185.4	8.52	12.05	29.11	0
6/2/2019 6:45	1.833	186.4	13.35	12.25	29.11	0
6/2/2019 7:00	1.599	157.9	27.33	12.59	29.12	0
6/2/2019 7:15	3.746	134.8	11.01	13.25	29.12	0
6/2/2019 7:30	4.044	133.9	19.25	13.49	29.12	0
6/2/2019 7:45	2.848	120.8	15.25	14.17	29.12	0
6/2/2019 8:00	2.747	155.8	29.81	14.26	29.12	0
6/2/2019 8:15	1.99	179.3	27.34	15.05	29.12	0
6/2/2019 8:30	2.664	196.1	30.47	15.34	29.12	0
6/2/2019 8:45	3.072	222.4	32.28	15.94	29.12	0
6/2/2019 9:00	3.662	253.8	23.6	16.5	29.13	0
6/2/2019 9:15	2.675	306.2	21.05	16.87	29.13	0
6/2/2019 9:30	3.008	283.4	44.89	17.44	29.13	0
6/2/2019 9:45	3.164	203.6	56.92	17.99	29.13	0
6/2/2019 10:00	4.268	240.1	24.33	18.11	29.12	0
6/2/2019 10:15	4.479	221.9	24.8	18.53	29.12	0
6/2/2019 10:30	5.51	245.3	16.57	18.62	29.12	0
6/2/2019 10:45	5.929	243.1	21.09	19.16	29.12	0
6/2/2019 11:00	6.436	248	24.93	19.4	29.12	0
6/2/2019 11:15	7.892	247.4	19.41	19.65	29.12	0
6/2/2019 11:30	8.34	262.7	12.87	19.46	29.12	0
6/2/2019 11:45	6.137	244.1	23.14	19.74	29.12	0
6/2/2019 12:00	6.137	257.5	24.08	20.3	29.1	0
6/2/2019 12:15	5.89	267	20.22	20.42	29.1	0
6/2/2019 12:30	5.834	277.1	26.2	20.43	29.1	0
6/2/2019 12:45	6.534	256.4	15.91	20.8	29.1	0
6/2/2019 13:00	5.097	257.9	22.43	21.23	29.1	0
6/2/2019 13:15	5.14	234.1	23.22	21.44	29.1	0
6/2/2019 13:30	6.016	239.1	40.33	22.06	29.1	0
6/2/2019 13:45	7.08	264.6	16.53	21.79	29.1	0
6/2/2019 14:00	6.482	275.8	17.02	22.15	29.08	0
6/2/2019 14:15	8.29	265.2	20.74	22.41	29.08	0

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6/2/2019 14:30	7.204	252.2	22.23	22.42	29.08	0
6/2/2019 14:45	8.68	258	22.71	22.35	29.08	0
6/2/2019 15:00	7.139	234	31.5	22.7	29.1	0
6/2/2019 15:15	9.14	256	15.33	22.59	29.1	0
6/2/2019 15:30	10.72	268.3	14.36	22.18	29.1	0
6/2/2019 15:45	9.77	268.1	11.07	21.82	29.1	0
6/2/2019 16:00	10.71	249.5	13.84	22.12	29.09	0
6/2/2019 16:15	9.93	244.6	12.19	21.64	29.09	0
6/2/2019 16:30	8.6	240.2	13.16	21.65	29.09	0
6/2/2019 16:45	6.584	255.5	13.18	21.4	29.09	0
6/2/2019 17:00	6.588	250.3	11.59	21.07	29.1	0
6/2/2019 17:15	7.518	247.5	11.18	21.28	29.1	0
6/2/2019 17:30	8.98	246.5	12.11	21.6	29.1	0
6/2/2019 17:45	7.854	234.6	12.09	21.57	29.1	0
6/2/2019 18:00	7.649	228.5	9.55	21.42	29.1	0
6/2/2019 18:15	8.65	214.7	8.07	21.31	29.1	0
6/2/2019 18:30	10	214.7	8.44	20.95	29.1	0
6/2/2019 18:45	9.94	219.8	7.14	20.47	29.1	0
6/2/2019 19:00	7.786	239.9	12.32	19.84	29.08	0
6/2/2019 19:15	8.03	243.6	6.794	19.02	29.08	0
6/2/2019 19:30	9.77	242.5	5.522	18.29	29.08	0
6/2/2019 19:45	9.14	234.5	8.02	17.73	29.08	0
6/2/2019 20:00	9.44	230.7	5.505	17.52	29.12	0
6/2/2019 20:15	9.34	237.2	4.74	16.92	29.12	0
6/2/2019 20:30	10.46	240.6	5.28	16.26	29.12	0
6/2/2019 20:45	10.19	238.4	6.11	15.74	29.12	0
6/2/2019 21:00	7.969	235.7	6.81	15.31	29.15	0
6/2/2019 21:15	3.778	295.7	41.17	14.8	29.15	0
6/2/2019 21:30	0.491	325.9	13.56	14.59	29.15	0
6/2/2019 21:45	0.595	208.3	38.42	14.52	29.15	0
6/2/2019 22:00	2.139	247.8	13.82	14.49	29.15	0
6/2/2019 22:15	3.221	210.1	6.421	14.39	29.15	0
6/2/2019 22:30	3.881	198.5	5.106	14.11	29.15	0
6/2/2019 22:45	3.388	203.9	4.755	13.82	29.15	0
6/2/2019 23:00	4.738	241.8	8.92	13.38	29.16	0
6/2/2019 23:15	5.488	268.9	7.525	12.82	29.16	0
6/2/2019 23:30	5.207	275	10.82	12.48	29.16	0
6/2/2019 23:45	4.19	270.4	11.83	12.34	29.16	0
6/3/2019 0:00	2.203	288.5	9.28	12.27	29.19	0
6/3/2019 0:15	2.527	243	24.8	12.5	29.19	0
6/3/2019 0:30	3.505	213.4	13.49	12.48	29.19	0
6/3/2019 0:45	3.08	252.3	6.064	12.21	29.19	0
6/3/2019 1:00	2.956	219.7	28.25	12.17	29.19	0
6/3/2019 1:15	3.992	146.7	19.99	11.77	29.19	0
6/3/2019 1:30	2.984	140.5	14.33	11.56	29.19	0
6/3/2019 1:45	5.494	137.8	8.03	11.33	29.19	0
6/3/2019 2:00	6.386	131.9	7.162	11.09	29.19	0

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6/3/2019 2:15	5.129	130.6	5.002	10.99	29.19	0
6/3/2019 2:30	4.993	130	7.888	10.9	29.19	0
6/3/2019 2:45	4.341	141.6	16.32	10.68	29.19	0
6/3/2019 3:00	3.441	155.7	19.02	10.75	29.23	0
6/3/2019 3:15	2.166	121	7.552	10.59	29.23	0
6/3/2019 3:30	3.278	137.7	7.986	10.64	29.23	0
6/3/2019 3:45	4.685	139.3	6.586	10.44	29.23	0
6/3/2019 4:00	5.692	135.1	7.735	10.35	29.22	0
6/3/2019 4:15	6.53	145.3	3.952	10.31	29.22	0
6/3/2019 4:30	6.829	140.1	6.011	10.18	29.22	0
6/3/2019 4:45	5.06	128	9.71	10.09	29.22	0
6/3/2019 5:00	5.139	124.2	9.4	10.13	29.25	0
6/3/2019 5:15	5.929	130	6.587	10.1	29.25	0
6/3/2019 5:30	4.029	129.2	4.839	10.28	29.25	0
6/3/2019 5:45	3.293	123.1	9.49	10.52	29.25	0
6/3/2019 6:00	4.561	127.9	7.947	10.7	29.27	0
6/3/2019 6:15	4.937	137.9	6.367	10.76	29.27	0
6/3/2019 6:30	4.844	133	7.745	10.86	29.27	0
6/3/2019 6:45	4.702	139.9	10.68	10.98	29.27	0
6/3/2019 7:00	5.245	110.9	8.22	11.08	29.27	0
6/3/2019 7:15	4.754	112.3	11.01	11.37	29.27	0
6/3/2019 7:30	4.253	136.5	13.31	11.56	29.27	0
6/3/2019 7:45	3.528	144	16.27	11.94	29.27	0
6/3/2019 8:00	4.165	120.8	26.01	12.46	29.27	0
6/3/2019 8:15	2.281	105.4	36.48	13	29.27	0
6/3/2019 8:30	3.942	199.1	33.46	12.47	29.27	0
6/3/2019 8:45	3.894	173.9	47.56	12.51	29.27	0
6/3/2019 9:00	3.087	178.1	26.32	12.4	29.3	0
6/3/2019 9:15	1.676	206.2	51.66	12.8	29.3	0
6/3/2019 9:30	2.178	281.9	20.86	12.93	29.3	0
6/3/2019 9:45	1.776	212.7	46.8	12.85	29.3	0
6/3/2019 10:00	3.223	127.7	28.12	13.39	29.32	0
6/3/2019 10:15	4.116	151.7	25.17	13.81	29.32	0
6/3/2019 10:30	4.864	178.4	17.1	13.83	29.32	0
6/3/2019 10:45	5.319	221.5	26.65	13.83	29.32	0
6/3/2019 11:00	4.204	260.4	28.89	14.02	29.32	0
6/3/2019 11:15	2.811	254.3	25.12	14.16	29.32	0
6/3/2019 11:30	2.46	356.2	22.38	14.49	29.32	0
6/3/2019 11:45	1.811	347.2	17.37	14.48	29.32	0
6/3/2019 12:00	3.026	320.5	16.5	14.32	29.32	0
6/3/2019 12:15	4.63	308.8	11.63	14.31	29.32	0
6/3/2019 12:30	5.39	310.5	12.65	14.56	29.32	0
6/3/2019 12:45	4.723	289.8	22.77	14.68	29.32	0
6/3/2019 13:00	2.869	310.3	90.7	15.31	29.31	0
6/3/2019 13:15	4.142	194.1	54.12	15.9	29.31	0
6/3/2019 13:30	3.134	210.3	35.31	15.87	29.31	0
6/3/2019 13:45	4.65	212.4	24.11	16.19	29.31	0

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6/3/2019 14:00	3.876	199	40.68	16.99	29.32	0
6/3/2019 14:15	3.708	186.9	42.24	17.13	29.32	0
6/3/2019 14:30	5.631	176.8	19.33	17.54	29.32	0
6/3/2019 14:45	5.405	197.4	38.65	17.52	29.32	0
6/3/2019 15:00	5.142	216.2	36	17.75	29.31	0
6/3/2019 15:15	5.494	219.5	22.92	18.06	29.31	0
6/3/2019 15:30	5.253	239.3	22	17.91	29.31	0
6/3/2019 15:45	4.438	254.7	17.7	18.15	29.31	0
6/3/2019 16:00	3.36	259.2	28.32	17.56	29.29	0
6/3/2019 16:15	2.057	282.9	36.51	17.67	29.29	0
6/3/2019 16:30	2.855	172.6	28.45	18.69	29.29	0
6/3/2019 16:45	2.608	125.5	35.23	18.51	29.29	0
6/3/2019 17:00	2.936	160.9	46.81	18.75	29.3	0
6/3/2019 17:15	4.07	238.6	51.19	18.71	29.3	0
6/3/2019 17:30	3.359	311.9	39.71	18.72	29.3	0
6/3/2019 17:45	2.387	290.3	58.16	18.69	29.3	0
6/3/2019 18:00	5.138	273.5	6.832	17.47	29.28	0
6/3/2019 18:15	3.585	274.2	8.07	17.38	29.28	0
6/3/2019 18:30	2.813	284.7	14.04	17.74	29.28	0
6/3/2019 18:45	2.619	308.4	10.3	18.24	29.28	0
6/3/2019 19:00	3.372	349.7	18.58	17.31	29.28	0
6/3/2019 19:15	3.037	309.6	11.74	17.33	29.28	0
6/3/2019 19:30	5.052	290.9	3.125	16.56	29.28	0
6/3/2019 19:45	5.461	314.8	26.07	16.03	29.28	0
6/3/2019 20:00	6.774	359.1	11.47	15.45	29.28	0
6/3/2019 20:15	7.629	1.776	11.71	15.05	29.28	0
6/3/2019 20:30	7.584	359.7	13.44	14.61	29.28	0
6/3/2019 20:45	7.624	354.5	13.21	14.75	29.28	0
6/3/2019 21:00	6.7	5.794	12.35	14.55	29.27	0
6/3/2019 21:15	8.29	2.894	15.28	14.42	29.27	0
6/3/2019 21:30	9.09	3.225	14.14	13.94	29.27	0
6/3/2019 21:45	11.57	10.69	9.57	13.56	29.27	0
6/3/2019 22:00	12.33	6.286	10.48	13.27	29.3	0
6/3/2019 22:15	11.92	2.195	13.51	12.87	29.3	0
6/3/2019 22:30	11.11	357.2	12.44	12.72	29.3	0
6/3/2019 22:45	10.68	4.015	13.02	12.57	29.3	0
6/3/2019 23:00	13.23	2.844	12.99	12.35	29.3	0
6/3/2019 23:15	12.81	6.391	14.01	12.17	29.3	0
6/3/2019 23:30	13.56	5.856	14.14	11.94	29.3	0
6/3/2019 23:45	11.77	3.566	14.35	11.72	29.3	0
6/4/2019 0:00	10.48	5.92	12.4	11.67	29.29	0
6/4/2019 0:15	9.91	5.618	10.44	11.66	29.29	0
6/4/2019 0:30	8.76	7.713	10.22	11.43	29.29	0
6/4/2019 0:45	8.2	12.12	10.88	11.09	29.29	0
6/4/2019 1:00	8.12	15.77	11.86	10.67	29.32	0
6/4/2019 1:15	8.91	12.24	12	10.53	29.32	0
6/4/2019 1:30	8.92	9.08	10.03	10.38	29.32	0

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6/4/2019 1:45	8.15	17.13	10.89	10.05	29.32	0
6/4/2019 2:00	7.28	16.35	10.89	9.78	29.31	0
6/4/2019 2:15	6.963	19.21	8.81	9.7	29.31	0
6/4/2019 2:30	6.122	17.81	12.61	9.5	29.31	0
6/4/2019 2:45	7.101	13.47	10.24	9.55	29.31	0
6/4/2019 3:00	6.418	19.27	10.38	9.26	29.32	0
6/4/2019 3:15	5.507	28.37	11.83	9.09	29.32	0
6/4/2019 3:30	4.814	33.99	12.17	9	29.32	0
6/4/2019 3:45	6.151	27.53	8.26	8.77	29.32	0
6/4/2019 4:00	6.094	36.05	8.29	8.77	29.34	0
6/4/2019 4:15	6.01	30.52	6.975	8.56	29.34	0
6/4/2019 4:30	4.635	30.37	6.967	8.61	29.34	0
6/4/2019 4:45	4.943	41.37	6.396	8.5	29.34	0
6/4/2019 5:00	4.398	53.25	8.62	8.51	29.36	0
6/4/2019 5:15	3.48	71.54	6.712	9.05	29.36	0
6/4/2019 5:30	2.026	71.32	7.598	9.38	29.36	0
6/4/2019 5:45	2.353	61.27	12.46	9.12	29.36	0
6/4/2019 6:00	3.213	106.1	12.24	9.21	29.37	0
6/4/2019 6:15	3.807	126.3	10.71	9.4	29.37	0
6/4/2019 6:30	4.462	143.4	8.15	9.33	29.37	0
6/4/2019 6:45	3.889	149.8	8.3	9.58	29.37	0
6/4/2019 7:00	3.091	140.4	16.35	10.03	29.37	0
6/4/2019 7:15	2.988	130.4	24.07	10.98	29.37	0
6/4/2019 7:30	3.169	134.5	26.68	11.61	29.37	0
6/4/2019 7:45	3.991	153.8	15	11.41	29.37	0
6/4/2019 8:00	3.047	119.3	34.73	12.28	29.36	0
6/4/2019 8:15	3.487	234.3	23.02	12.14	29.36	0
6/4/2019 8:30	3.957	221.9	24.57	12.22	29.36	0
6/4/2019 8:45	3.916	241.8	28.39	12.46	29.36	0
6/4/2019 9:00	3.15	238.8	18.71	13.07	29.36	0
6/4/2019 9:15	2.663	274.3	56.83	13.56	29.36	0
6/4/2019 9:30	3.399	222.3	30.31	13.67	29.36	0
6/4/2019 9:45	2.54	195.2	78.45	14.46	29.36	0
6/4/2019 10:00	2.581	240	43.41	14.64	29.36	0
6/4/2019 10:15	3.482	215.3	34.32	15.12	29.36	0
6/4/2019 10:30	1.728	289	40.27	15.64	29.36	0
6/4/2019 10:45	4.479	239.6	40.97	15.7	29.36	0
6/4/2019 11:00	2.989	174.4	47.33	16.4	29.33	0
6/4/2019 11:15	4.164	283.8	44.88	16.58	29.33	0
6/4/2019 11:30	4.29	271.3	46.65	17.04	29.33	0
6/4/2019 11:45	5.377	174.9	21.34	17.43	29.33	0
6/4/2019 12:00	5.605	231.4	31.55	17.49	29.34	0
6/4/2019 12:15	3.898	223.5	53.76	17.84	29.34	0
6/4/2019 12:30	4.681	217.5	45.79	17.67	29.34	0
6/4/2019 12:45	4.943	299.6	38.57	18.02	29.34	0
6/4/2019 13:00	6.633	273.5	38.65	18.44	29.32	0
6/4/2019 13:15	6.344	302.3	18.83	18.48	29.32	0



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6/4/2019 13:30	4.858	276.1	34.72	18.54	29.32	0
6/4/2019 13:45	6.374	292.4	26.33	18.75	29.32	0
6/4/2019 14:00	6.193	276.6	23.56	19.1	29.31	0
6/4/2019 14:15	5.735	256.8	27.51	19.33	29.31	0
6/4/2019 14:30	6.838	268.8	17.44	19.56	29.31	0
6/4/2019 14:45	6.714	242.2	25.32	19.7	29.31	0
6/4/2019 15:00	7.587	228.6	22.06	19.91	29.31	0
6/4/2019 15:15	7.603	233.3	19.26	19.69	29.31	0
6/4/2019 15:30	5.697	225.1	46.84	19.53	29.31	0
6/4/2019 15:45	5.007	262.3	34.76	19.86	29.31	0
6/4/2019 16:00	4.036	289.5	29.77	19.65	29.29	0
6/4/2019 16:15	4.708	294.5	34.87	20.15	29.29	0
6/4/2019 16:30	4.311	245.2	34.14	20.02	29.29	0
6/4/2019 16:45	3.204	263.2	66.54	20.21	29.29	0
6/4/2019 17:00	2.894	219.8	47.85	20.25	29.27	0
6/4/2019 17:15	3.978	249	22.4	20.5	29.27	0
6/4/2019 17:30	5.812	240.8	19.83	20.23	29.27	0
6/4/2019 17:45	6.396	250.8	13.92	20.1	29.27	0
6/4/2019 18:00	6.669	247.2	11.44	19.8	29.24	0
6/4/2019 18:15	4.734	243.6	18.29	19.69	29.24	0
6/4/2019 18:30	3.924	202.8	16.48	19.52	29.24	0
6/4/2019 18:45	1.604	240.4	19.81	19.47	29.24	0
6/4/2019 19:00	1.079	236.1	19.75	19.54	29.23	0
6/4/2019 19:15	1.381	295.8	50.61	19.61	29.23	0
6/4/2019 19:30	1.722	266.9	17.11	19.5	29.23	0
6/4/2019 19:45	2.31	222.6	19.18	19.07	29.23	0
6/4/2019 20:00	1.385	147.7	15.87	18.34	29.22	0
6/4/2019 20:15	0.463	141.2	1.586	18.1	29.22	0
6/4/2019 20:30	2.077	191.2	17.74	18.04	29.22	0
6/4/2019 20:45	2.743	206.7	14.77	17.86	29.22	0
6/4/2019 21:00	2.949	225	5.866	17.4	29.23	0
6/4/2019 21:15	5.315	244.4	13.99	17.1	29.23	0
6/4/2019 21:30	4.608	286	11.65	16.04	29.23	0
6/4/2019 21:45	2.639	281.7	11.54	15.73	29.23	0
6/4/2019 22:00	0.177	245.8	2.253	15.32	29.25	0
6/4/2019 22:15	0.584	219.4	8.34	15.37	29.25	0
6/4/2019 22:30	1.835	192	13.95	15.5	29.25	0
6/4/2019 22:45	3.902	168.1	12.27	14.9	29.25	0
6/4/2019 23:00	4.634	171.5	22.51	14.88	29.23	0
6/4/2019 23:15	5.068	167.1	7.923	14	29.23	0
6/4/2019 23:30	4.731	167.5	5.478	13.69	29.23	0
6/4/2019 23:45	4.776	176.7	6.048	13.89	29.23	0
6/5/2019 0:00	4.653	177.5	10.24	13.68	29.23	0
6/5/2019 0:15	3.907	191.8	3.217	13.68	29.23	0
6/5/2019 0:30	1.136	189.1	0.553	13.73	29.23	0
6/5/2019 0:45	0.238	186.6	0.538	13.5	29.23	0
6/5/2019 1:00	0.457	140.2	17.68	13.38	29.22	0

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6/5/2019 1:15	3.153	140.6	10.64	13.23	29.22	0
6/5/2019 1:30	3.728	150.4	8.81	13.36	29.22	0
6/5/2019 1:45	3.672	153.8	10.16	13.06	29.22	0
6/5/2019 2:00	4.798	152.1	9.57	12.74	29.21	0
6/5/2019 2:15	5.331	139.5	4.99	12.05	29.21	0
6/5/2019 2:30	4.91	151.8	8.53	12.39	29.21	0
6/5/2019 2:45	5.131	154.4	6.513	12.48	29.21	0
6/5/2019 3:00	5.343	142.3	6.582	12.09	29.22	0
6/5/2019 3:15	6.716	147	8.58	11.82	29.22	0
6/5/2019 3:30	6.908	154.2	5.441	11.58	29.22	0
6/5/2019 3:45	6.076	144.4	4.451	11.57	29.22	0
6/5/2019 4:00	6.195	145.6	4.783	11.81	29.19	0
6/5/2019 4:15	5.779	145.8	7.64	11.59	29.19	0
6/5/2019 4:30	5.104	167.2	7.295	11.73	29.19	0
6/5/2019 4:45	5.389	180.4	8.73	11.37	29.19	0
6/5/2019 5:00	5.097	187.1	8.06	11.21	29.21	0
6/5/2019 5:15	5.093	207	10.69	11.19	29.21	0
6/5/2019 5:30	4.607	212.8	5.657	11.69	29.21	0
6/5/2019 5:45	4.304	215.5	5.534	12.14	29.21	0
6/5/2019 6:00	3.376	205.4	13.98	12.16	29.19	0
6/5/2019 6:15	2.517	219.9	13.11	12.2	29.19	0
6/5/2019 6:30	2.711	156.1	27.44	12.25	29.19	0
6/5/2019 6:45	3.769	154.1	12.62	12.65	29.19	0
6/5/2019 7:00	5.478	188.4	9.23	12.6	29.2	0
6/5/2019 7:15	6.25	176.4	10.85	12.97	29.2	0
6/5/2019 7:30	7.151	160.9	14.9	13.4	29.2	0
6/5/2019 7:45	7.511	177.9	13.27	13.09	29.2	0
6/5/2019 8:00	8.71	187.1	10.85	12.99	29.19	0
6/5/2019 8:15	11.32	183.7	9.63	12.42	29.19	0
6/5/2019 8:30	9.16	194.5	14.9	11.98	29.19	0
6/5/2019 8:45	7.944	220.3	11.52	11.91	29.19	0
6/5/2019 9:00	4.999	221.1	17.73	12.1	29.2	0
6/5/2019 9:15	5.734	184.6	25.43	12.4	29.2	0
6/5/2019 9:30	6.138	162.2	15.4	12.92	29.2	0
6/5/2019 9:45	5.211	160.9	11.97	13.02	29.2	0
6/5/2019 10:00	4.881	160.9	24.69	13.19	29.21	0
6/5/2019 10:15	4.824	163.1	19.36	13.34	29.21	0
6/5/2019 10:30	5.454	134.2	14.78	13.92	29.21	0
6/5/2019 10:45	7.079	153.2	18.06	14.78	29.21	0
6/5/2019 11:00	7.132	163.8	19.35	15.23	29.19	0
6/5/2019 11:15	9.03	170.7	23.06	15.61	29.19	0
6/5/2019 11:30	9.73	181.1	11.45	15.24	29.19	0
6/5/2019 11:45	8.44	197.2	20.07	15.35	29.19	0
6/5/2019 12:00	9.93	203.6	15.95	15.68	29.19	0
6/5/2019 12:15	10.61	204	10.61	15.78	29.19	0
6/5/2019 12:30	8.82	211.5	19.7	15.66	29.19	0
6/5/2019 12:45	6.247	195.7	19.42	15.77	29.19	0

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6/5/2019 13:00	5.452	177.7	19.57	15.81	29.19	0
6/5/2019 13:15	6.612	182.7	17.96	16.07	29.19	0
6/5/2019 13:30	8.99	201.6	18.16	16.22	29.19	0
6/5/2019 13:45	7.814	210.3	14.18	16.23	29.19	0
6/5/2019 14:00	8.03	214.3	11.98	16.29	29.18	0
6/5/2019 14:15	5.922	200.6	27.53	16.6	29.18	0
6/5/2019 14:30	5.869	179.9	16.89	16.64	29.18	0
6/5/2019 14:45	5.517	165.2	23.06	17.05	29.18	0
6/5/2019 15:00	7.509	187.6	18	17.19	29.18	0
6/5/2019 15:15	8.38	186	17.04	17.01	29.18	0
6/5/2019 15:30	7.533	208.3	21.19	17.52	29.18	0
6/5/2019 15:45	8.78	218.5	16.11	17.62	29.18	0
6/5/2019 16:00	13.25	205.6	12.03	17.81	29.18	0
6/5/2019 16:15	10.32	237.7	15.49	17.46	29.18	0
6/5/2019 16:30	11.11	229.3	16.75	17.24	29.18	0
6/5/2019 16:45	10.17	222.9	12.25	16.92	29.18	0
6/5/2019 17:00	8.51	225.4	12.42	17.01	29.15	0
6/5/2019 17:15	13.21	237.1	10.18	16.28	29.15	0.01
6/5/2019 17:30	9.39	237.6	9.96	14.37	29.15	0.01
6/5/2019 17:45	7.206	221.6	8.7	14.73	29.15	0
6/5/2019 18:00	7.484	212.9	10.07	14.91	29.16	0
6/5/2019 18:15	7.467	191	8.69	14.69	29.16	0
6/5/2019 18:30	6.56	193	19.42	15.05	29.16	0
6/5/2019 18:45	11.7	219.5	9.6	15.3	29.16	0
6/5/2019 19:00	11.62	233.6	10.35	15.06	29.17	0
6/5/2019 19:15	15.09	233.1	8.75	14.65	29.17	0
6/5/2019 19:30	13.75	233.9	10.76	14.23	29.17	0
6/5/2019 19:45	12.91	240.5	11.74	13.88	29.17	0
6/5/2019 20:00	12.51	241.4	10.49	13.41	29.14	0
6/5/2019 20:15	9.39	224	13.26	13.03	29.14	0
6/5/2019 20:30	8.73	215.5	12.96	12.64	29.14	0
6/5/2019 20:45	6.989	211	15.85	12.36	29.14	0
6/5/2019 21:00	4.203	203.5	21.95	12.16	29.19	0
6/5/2019 21:15	4.092	215.9	34.25	12.18	29.19	0
6/5/2019 21:30	3.083	226.3	28.55	12.09	29.19	0
6/5/2019 21:45	4.246	268.9	13.49	11.94	29.19	0
6/5/2019 22:00	7.47	273.8	13.3	11.71	29.2	0
6/5/2019 22:15	7.665	265.2	8.83	11.53	29.2	0
6/5/2019 22:30	6.785	256.7	7.747	11.38	29.2	0
6/5/2019 22:45	5.648	256.7	5.44	11.22	29.2	0
6/5/2019 23:00	6.555	242.5	12.56	11.19	29.19	0
6/5/2019 23:15	7.426	242.6	8.88	11.11	29.19	0
6/5/2019 23:30	7.023	248.6	10.07	10.92	29.19	0
6/5/2019 23:45	4.298	260.1	13.01	10.72	29.19	0
6/6/2019 0:00	4.977	236.8	15.23	10.61	29.21	0
6/6/2019 0:15	8.63	225.7	9.31	10.47	29.21	0
6/6/2019 0:30	6.513	227	10.87	10.32	29.21	0

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6/6/2019 0:45	3.271	185.4	28.78	9.88	29.21	0
6/6/2019 1:00	4.234	184	12.37	9.67	29.19	0
6/6/2019 1:15	5.409	177.1	6.123	9.41	29.19	0
6/6/2019 1:30	5.502	175.5	6.6	9.31	29.19	0
6/6/2019 1:45	7.256	176.8	5.087	9.29	29.19	0
6/6/2019 2:00	7.584	171.9	6.482	9.03	29.2	0
6/6/2019 2:15	7.806	179	5.484	9.08	29.2	0
6/6/2019 2:30	5.669	171.3	11.43	8.74	29.2	0
6/6/2019 2:45	4.194	174.7	7.896	8.64	29.2	0
6/6/2019 3:00	3.629	155.9	15.28	8.7	29.2	0
6/6/2019 3:15	5.411	153.9	12.89	8.71	29.2	0
6/6/2019 3:30	7.835	174.2	6.557	8.83	29.2	0
6/6/2019 3:45	6.681	172	6.953	8.35	29.2	0
6/6/2019 4:00	6.892	169.5	7.798	8.21	29.18	0
6/6/2019 4:15	4.785	165.1	7.45	7.994	29.18	0
6/6/2019 4:30	6.175	163.5	8.94	7.752	29.18	0
6/6/2019 4:45	5.74	148.5	7.358	7.456	29.18	0
6/6/2019 5:00	5.153	135.4	7.682	7.888	29.18	0
6/6/2019 5:15	6.545	136.5	9.35	8.27	29.18	0
6/6/2019 5:30	6.846	143.3	6.473	8.52	29.18	0
6/6/2019 5:45	8.33	150.8	7.751	8.66	29.18	0
6/6/2019 6:00	8.08	156.5	7.855	8.5	29.18	0
6/6/2019 6:15	7.583	153.3	6.508	8.46	29.18	0
6/6/2019 6:30	7.061	170.8	11.19	8.79	29.18	0
6/6/2019 6:45	7.553	173.4	8.58	8.94	29.18	0
6/6/2019 7:00	7.097	178.4	9.78	9.19	29.18	0
6/6/2019 7:15	7.492	180.7	9.56	9.3	29.18	0
6/6/2019 7:30	6.812	185.3	12.25	9.43	29.18	0
6/6/2019 7:45	8.45	197.7	11.85	9.5	29.18	0
6/6/2019 8:00	9.76	208.4	8.38	9.81	29.19	0
6/6/2019 8:15	9.67	181.6	13.16	10.05	29.19	0
6/6/2019 8:30	8.41	171.4	17.95	10.76	29.19	0
6/6/2019 8:45	9.39	175.6	14.58	10.77	29.19	0
6/6/2019 9:00	8.6	194.6	10.03	10.71	29.15	0
6/6/2019 9:15	9.34	189	11.57	11.16	29.15	0
6/6/2019 9:30	10.67	209.5	10.63	11.74	29.15	0
6/6/2019 9:45	8.5	212.9	17.94	11.57	29.15	0
6/6/2019 10:00	9.85	217.4	10.53	11.77	29.17	0
6/6/2019 10:15	10.18	185.9	22.58	12.41	29.17	0
6/6/2019 10:30	7.909	238.9	20.73	12.2	29.17	0
6/6/2019 10:45	9.52	209.1	15.06	12.37	29.17	0
6/6/2019 11:00	6.075	249.7	22.53	12.84	29.16	0
6/6/2019 11:15	6.588	236.8	16.76	13.08	29.16	0
6/6/2019 11:30	5.489	221.5	25.19	13.1	29.16	0
6/6/2019 11:45	6.442	187.4	16.22	13.69	29.16	0
6/6/2019 12:00	6.538	197.4	23.79	13.92	29.15	0
6/6/2019 12:15	7.162	204.3	24.5	14.35	29.15	0

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6/6/2019 12:30	8.29	233	23.01	14.2	29.15	0
6/6/2019 12:45	8.91	231	13.69	13.8	29.15	0
6/6/2019 13:00	8.65	253.1	21.05	12.95	29.15	0
6/6/2019 13:15	5.257	238	48.39	13.08	29.15	0
6/6/2019 13:30	9.64	167.3	34.6	13.74	29.15	0
6/6/2019 13:45	9.89	176.5	21.14	15.12	29.15	0
6/6/2019 14:00	8.81	186.6	29.65	14.89	29.15	0
6/6/2019 14:15	6.503	181.5	29.55	14.33	29.15	0
6/6/2019 14:30	10.35	199.6	25.4	14.92	29.15	0
6/6/2019 14:45	11.58	196.5	16.49	14.4	29.15	0
6/6/2019 15:00	15.43	178.2	11.65	12.44	29.14	0
6/6/2019 15:15	12.69	152	10.33	11.91	29.14	0
6/6/2019 15:30	9.83	128.2	13.4	12.59	29.14	0
6/6/2019 15:45	9.05	117	11.76	11.28	29.14	0
6/6/2019 16:00	9.32	112.1	12.43	11.25	29.16	0
6/6/2019 16:15	7.566	107.4	12.67	11.81	29.16	0
6/6/2019 16:30	5.599	113.6	19.78	12.3	29.16	0
6/6/2019 16:45	10.21	148.7	22.89	13.35	29.16	0
6/6/2019 17:00	11.48	166.9	11.29	13.23	29.15	0
6/6/2019 17:15	14.73	156.4	10.98	12.82	29.15	0
6/6/2019 17:30	14.1	179.2	11.98	13.58	29.15	0
6/6/2019 17:45	14.27	174.9	10.22	13.21	29.15	0
6/6/2019 18:00	12.07	172.4	11.43	13.17	29.16	0
6/6/2019 18:15	10.57	177.8	11.2	13.22	29.16	0
6/6/2019 18:30	11.18	176.9	9.1	13.02	29.16	0
6/6/2019 18:45	8.27	170.7	10.19	12.81	29.16	0
6/6/2019 19:00	7.477	183	26.24	13.05	29.15	0
6/6/2019 19:15	10.88	224.2	15.41	13.49	29.15	0
6/6/2019 19:30	11.91	246.2	12.27	12.97	29.15	0
6/6/2019 19:45	13.64	234.6	12.36	12.17	29.15	0
6/6/2019 20:00	12.73	234.5	11.72	11.61	29.16	0
6/6/2019 20:15	10.91	229.6	9.79	11.38	29.16	0
6/6/2019 20:30	10.87	228.6	10.02	11.21	29.16	0
6/6/2019 20:45	9.74	222.5	8.19	11.08	29.16	0
6/6/2019 21:00	8.69	208	11.43	10.97	29.19	0
6/6/2019 21:15	6.113	164.9	25.7	10.59	29.19	0
6/6/2019 21:30	7.196	127.1	10.76	9.7	29.19	0
6/6/2019 21:45	5.433	132.9	9.43	9.36	29.19	0
6/6/2019 22:00	6.789	127.9	9.47	9.27	29.18	0
6/6/2019 22:15	7.497	137.5	7.317	9.09	29.18	0
6/6/2019 22:30	5.818	130.3	9.62	8.98	29.18	0
6/6/2019 22:45	6.493	130.1	8.79	8.94	29.18	0
6/6/2019 23:00	6.959	138.1	7.467	9.01	29.18	0
6/6/2019 23:15	7.802	141.4	8.81	8.94	29.18	0
6/6/2019 23:30	8.36	142.1	8.04	8.85	29.18	0
6/6/2019 23:45	8.7	147.7	7.887	8.7	29.18	0
6/7/2019 0:00	8.75	150	5.647	8.6	29.17	0

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6/7/2019 0:15	8.37	149	4.808	8.42	29.17	0
6/7/2019 0:30	7.525	146.1	5.552	8.34	29.17	0
6/7/2019 0:45	6.997	151	7.435	8.47	29.17	0
6/7/2019 1:00	8.03	152.1	8.39	8.48	29.19	0
6/7/2019 1:15	6.634	144.7	6.243	8.37	29.19	0
6/7/2019 1:30	6.877	147.4	6.967	8.49	29.19	0
6/7/2019 1:45	6.801	151.6	7.276	8.47	29.19	0
6/7/2019 2:00	9.32	171.8	9.94	8.77	29.2	0
6/7/2019 2:15	11.06	173.3	8.01	8.9	29.2	0
6/7/2019 2:30	10.89	174.8	8.48	8.95	29.2	0
6/7/2019 2:45	9.24	177.7	9.79	8.96	29.2	0
6/7/2019 3:00	9.23	174.7	12.34	8.98	29.21	0
6/7/2019 3:15	9.54	181.6	10.15	9.01	29.21	0
6/7/2019 3:30	10.07	175.7	8.73	9	29.21	0
6/7/2019 3:45	10.17	175.1	9.45	8.97	29.21	0
6/7/2019 4:00	9.68	184.7	8.44	9.02	29.21	0
6/7/2019 4:15	10.2	185.3	8.9	8.93	29.21	0
6/7/2019 4:30	10.61	188.1	10.22	8.95	29.21	0
6/7/2019 4:45	8.49	194.1	9.7	8.96	29.21	0
6/7/2019 5:00	8.26	192.9	10.32	8.92	29.22	0
6/7/2019 5:15	8.92	197.8	8.42	9	29.22	0
6/7/2019 5:30	8.8	198.9	9.94	9.01	29.22	0
6/7/2019 5:45	9.02	202.4	8.13	9.05	29.22	0
6/7/2019 6:00	8.74	195.3	9.84	9.09	29.22	0
6/7/2019 6:15	9.59	195.1	11.49	9.16	29.22	0
6/7/2019 6:30	10.32	196.3	7.27	9.15	29.22	0
6/7/2019 6:45	9	193.8	10.18	9.18	29.22	0
6/7/2019 7:00	8.65	192.3	12.04	9.26	29.25	0
6/7/2019 7:15	8.18	186.3	13.04	9.34	29.25	0
6/7/2019 7:30	6.842	189.2	14.46	9.63	29.25	0
6/7/2019 7:45	7.75	191.1	15.45	9.8	29.25	0
6/7/2019 8:00	6.483	187.2	14.11	9.96	29.26	0
6/7/2019 8:15	7.412	185.3	12.99	10.4	29.26	0
6/7/2019 8:30	5.989	193.5	18.81	10.51	29.26	0
6/7/2019 8:45	6.773	171.2	17.29	10.9	29.26	0
6/7/2019 9:00	7.476	147.4	16.51	11.25	29.25	0
6/7/2019 9:15	4.728	149.6	27.15	11.41	29.25	0
6/7/2019 9:30	4.286	174	50.16	10.93	29.25	0
6/7/2019 9:45	3.063	180.6	30.22	11.33	29.25	0
6/7/2019 10:00	2.308	65.86	57.45	12.14	29.25	0
6/7/2019 10:15	6.785	211.3	23.25	12.28	29.25	0
6/7/2019 10:30	8.6	198.2	15.31	11.75	29.25	0
6/7/2019 10:45	6.037	207.1	17.82	12.62	29.25	0
6/7/2019 11:00	5.761	173.9	22.78	13.39	29.25	0
6/7/2019 11:15	5.771	153.9	43.36	13.39	29.25	0
6/7/2019 11:30	5.905	201.1	16.85	13.05	29.25	0
6/7/2019 11:45	3.996	207.7	23.97	12.82	29.25	0

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6/7/2019 12:00	6.599	197.9	22.21	13.25	29.24	0
6/7/2019 12:15	8.02	216.1	23.33	13.81	29.24	0
6/7/2019 12:30	10.56	235.7	17.92	14	29.24	0
6/7/2019 12:45	13.51	235.1	11.04	13.1	29.24	0
6/7/2019 13:00	13.21	242.7	10.57	11.95	29.25	0.02
6/7/2019 13:15	12.65	223.8	12.62	12.74	29.25	0
6/7/2019 13:30	19.02	221.5	8.89	12.65	29.25	0
6/7/2019 13:45	15.63	221.2	13.14	12.78	29.25	0
6/7/2019 14:00	15.29	188.5	11.81	12.32	29.26	0
6/7/2019 14:15	14.12	180.2	12.6	11.6	29.26	0
6/7/2019 14:30	12.74	180	9.64	11.18	29.26	0
6/7/2019 14:45	14.01	168.4	10.25	10.85	29.26	0
6/7/2019 15:00	13.21	161.9	9.95	10.51	29.29	0
6/7/2019 15:15	14.05	157	9.17	10.29	29.29	0
6/7/2019 15:30	16.51	160.6	11.85	9.69	29.29	0
6/7/2019 15:45	14.26	160	7.916	9.87	29.29	0
6/7/2019 16:00	14.02	158.7	8.86	9.67	29.3	0
6/7/2019 16:15	12.28	163.6	12.18	9.49	29.3	0.01
6/7/2019 16:30	11.12	175.2	9.52	9.49	29.3	0
6/7/2019 16:45	10.5	168.8	8.67	9.44	29.3	0
6/7/2019 17:00	11.5	173.7	8.12	9.38	29.32	0.01
6/7/2019 17:15	10.2	157.4	11.08	9.24	29.32	0.01
6/7/2019 17:30	8.84	148.5	11.59	9.17	29.32	0
6/7/2019 17:45	9.15	167.1	11.72	9.32	29.32	0.01
6/7/2019 18:00	9.05	169.6	9.88	9.42	29.33	0
6/7/2019 18:15	7.471	155.3	12.12	9.42	29.33	0
6/7/2019 18:30	7.711	149.2	10.07	9.36	29.33	0.01
6/7/2019 18:45	7.432	143	8.61	9.32	29.33	0
6/7/2019 19:00	6.873	143.5	9.81	9.3	29.35	0
6/7/2019 19:15	9.25	164.7	12.84	9.38	29.35	0
6/7/2019 19:30	8.59	185	8.31	9.37	29.35	0
6/7/2019 19:45	7.84	183.8	7.172	9.32	29.35	0
6/7/2019 20:00	7.199	180.8	7.709	9.22	29.38	0
6/7/2019 20:15	5.262	162.6	13.78	9.15	29.38	0
6/7/2019 20:30	4.724	164.4	16.79	9.13	29.38	0
6/7/2019 20:45	5.179	167.3	16.79	9.1	29.38	0.05
6/7/2019 21:00	5.099	131.7	9.17	8.86	29.4	0.01
6/7/2019 21:15	3.833	135.1	11.86	8.83	29.4	0
6/7/2019 21:30	4.032	138.3	7.715	8.83	29.4	0
6/7/2019 21:45	5.321	128.6	8.04	8.85	29.4	0
6/7/2019 22:00	4.62	129.4	8.02	8.88	29.41	0
6/7/2019 22:15	3.948	134.1	11.57	8.93	29.41	0
6/7/2019 22:30	5.612	152.6	10.9	8.99	29.41	0
6/7/2019 22:45	8.28	178.4	7.299	9.1	29.41	0
6/7/2019 23:00	8.01	177.9	7.715	9.07	29.41	0
6/7/2019 23:15	6.243	158.7	11.46	8.99	29.41	0
6/7/2019 23:30	4.423	149.4	9.42	8.85	29.41	0

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6/7/2019 23:45	4.731	149.5	7.942	8.84	29.41	0
6/8/2019 0:00	5.104	134.7	7.494	8.84	29.44	0
6/8/2019 0:15	6.083	138.4	5.996	8.86	29.44	0
6/8/2019 0:30	3.583	122.8	17.7	8.86	29.44	0
6/8/2019 0:45	3.489	119.7	11.05	8.88	29.44	0
6/8/2019 1:00	4.294	134.1	6.623	8.88	29.45	0
6/8/2019 1:15	3.523	137.4	9.32	8.86	29.45	0
6/8/2019 1:30	3.125	132.6	8.31	8.86	29.45	0
6/8/2019 1:45	3.128	121.5	7.858	8.86	29.45	0
6/8/2019 2:00	4.583	124.8	11.07	8.88	29.47	0
6/8/2019 2:15	2.489	93.4	12.79	8.83	29.47	0
6/8/2019 2:30	5.935	126.9	10.07	8.84	29.47	0
6/8/2019 2:45	6.325	159.9	12.64	9.02	29.47	0
6/8/2019 3:00	6.13	169.3	19.49	9.08	29.48	0
6/8/2019 3:15	7.666	179.8	8.28	9.13	29.48	0
6/8/2019 3:30	8.86	177.7	4.531	9.12	29.48	0
6/8/2019 3:45	6.829	172.1	8.09	9.13	29.48	0
6/8/2019 4:00	4.222	159.9	12.71	9.05	29.49	0
6/8/2019 4:15	4.459	153.7	12.66	8.99	29.49	0
6/8/2019 4:30	5.285	138.4	7.625	8.89	29.49	0
6/8/2019 4:45	3.427	128.3	10.26	8.9	29.49	0
6/8/2019 5:00	3.743	125.6	9.13	8.94	29.51	0
6/8/2019 5:15	2.91	131.2	12.52	9.03	29.51	0
6/8/2019 5:30	1.919	144.4	9.51	9.14	29.51	0
6/8/2019 5:45	3.723	164.1	8.12	9.26	29.51	0
6/8/2019 6:00	5.292	170.3	8.62	9.38	29.52	0
6/8/2019 6:15	5.036	176.4	9.33	9.45	29.52	0
6/8/2019 6:30	5.341	170.2	10.06	9.55	29.52	0
6/8/2019 6:45	4.517	150.1	15.48	9.78	29.52	0
6/8/2019 7:00	5.311	140.5	8.58	9.97	29.53	0
6/8/2019 7:15	6.402	146.8	12.45	10.19	29.53	0
6/8/2019 7:30	6.068	150	14.89	10.31	29.53	0
6/8/2019 7:45	5.692	166.7	20.73	10.61	29.53	0
6/8/2019 8:00	5.759	173	16.45	10.8	29.53	0
6/8/2019 8:15	6.024	174	18.94	11.02	29.53	0
6/8/2019 8:30	5.44	172.3	26.87	11.58	29.53	0
6/8/2019 8:45	5.478	171.3	18.33	11.2	29.53	0
6/8/2019 9:00	4.977	248.8	12.06	11.08	29.53	0
6/8/2019 9:15	3.91	209.2	30.17	11.4	29.53	0
6/8/2019 9:30	4.832	195	17.39	12.02	29.53	0
6/8/2019 9:45	3.701	191.1	30.76	12.99	29.53	0
6/8/2019 10:00	6.869	230.6	14.89	12.77	29.54	0
6/8/2019 10:15	5.257	228.4	24.26	12.65	29.54	0
6/8/2019 10:30	3.221	190.6	28.42	13.29	29.54	0
6/8/2019 10:45	3.388	182.6	27.81	13.69	29.54	0
6/8/2019 11:00	3.911	199.8	52.02	14.21	29.57	0
6/8/2019 11:15	4.526	209.6	46.28	13.9	29.57	0



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6/8/2019 11:30	3.081	236.2	53.35	13.92	29.57	0
6/8/2019 11:45	2.82	259.3	15.7	14.18	29.57	0
6/8/2019 12:00	2.48	207.2	34.52	14.73	29.55	0
6/8/2019 12:15	2.357	205.5	56.12	15.16	29.55	0
6/8/2019 12:30	3.509	209.6	39.53	15.75	29.55	0
6/8/2019 12:45	3.371	210	39.35	15.94	29.55	0
6/8/2019 13:00	4.556	278.4	73.85	16.32	29.57	0
6/8/2019 13:15	3.448	129.9	93.9	15.89	29.57	0
6/8/2019 13:30	2.615	251.8	32.98	16.16	29.57	0
6/8/2019 13:45	3.571	225.9	34.88	16.58	29.57	0
6/8/2019 14:00	4.003	225.9	31.22	16.26	29.55	0
6/8/2019 14:15	5.626	229.9	54.08	16.46	29.55	0
6/8/2019 14:30	5.555	257.6	23.33	16.26	29.55	0
6/8/2019 14:45	3.844	245	17.32	16.51	29.55	0
6/8/2019 15:00	2.584	265.4	24.4	16.54	29.56	0
6/8/2019 15:15	3.841	253.6	41.18	17.5	29.56	0
6/8/2019 15:30	2.888	260.2	48.5	17.46	29.56	0
6/8/2019 15:45	4	350.2	26.1	17.1	29.56	0
6/8/2019 16:00	3.347	342.9	27.51	16.91	29.56	0
6/8/2019 16:15	4.297	318.4	9.9	16.81	29.56	0
6/8/2019 16:30	2.492	346.2	39.92	17.26	29.56	0
6/8/2019 16:45	3.481	18.09	23.36	17.27	29.56	0
6/8/2019 17:00	4.507	17	9.75	16.61	29.55	0
6/8/2019 17:15	4.058	33.72	9.14	16.68	29.55	0
6/8/2019 17:30	6.031	40.41	15.61	17.25	29.55	0
6/8/2019 17:45	4.713	37.65	11.94	17.55	29.55	0
6/8/2019 18:00	6.315	305.5	72.17	18.1	29.55	0
6/8/2019 18:15	2.567	36.81	17.67	17.97	29.55	0
6/8/2019 18:30	3.519	265.5	35.15	18.3	29.55	0
6/8/2019 18:45	5.419	251.7	12.04	17.81	29.55	0
6/8/2019 19:00	3.986	298.7	26.8	17.75	29.55	0
6/8/2019 19:15	6.308	314.9	7.867	17.13	29.55	0
6/8/2019 19:30	4.69	320.2	11.59	16.37	29.55	0
6/8/2019 19:45	4.441	316.8	8.08	15.76	29.55	0
6/8/2019 20:00	5.887	324.9	10.07	15.12	29.56	0
6/8/2019 20:15	6.428	335.2	8.24	14.66	29.56	0
6/8/2019 20:30	6.81	346.5	10.25	14.67	29.56	0
6/8/2019 20:45	6.486	5.963	12.91	14.27	29.56	0
6/8/2019 21:00	6.872	24.97	11.44	13.61	29.58	0
6/8/2019 21:15	6.228	12.46	14.64	13.3	29.58	0
6/8/2019 21:30	8.89	13.09	11.56	13.1	29.58	0
6/8/2019 21:45	8.42	17.32	13.22	12.81	29.58	0
6/8/2019 22:00	7.859	31.87	12.82	12.49	29.58	0
6/8/2019 22:15	9.84	30.05	10.29	12.35	29.58	0
6/8/2019 22:30	9.89	27.96	9.13	12.31	29.58	0
6/8/2019 22:45	8.39	33.11	10.53	12.07	29.58	0
6/8/2019 23:00	8.39	27.07	10.7	11.88	29.56	0

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6/8/2019 23:15	8.31	24.16	8.07	11.63	29.56	0
6/8/2019 23:30	9.35	27.91	10.16	11.57	29.56	0
6/8/2019 23:45	8.02	19.43	10.29	11.32	29.56	0
6/9/2019 0:00	8.79	23.53	9.55	11.4	29.59	0
6/9/2019 0:15	5.809	34.59	14.18	10.72	29.59	0
6/9/2019 0:30	8	32.95	7.59	10.25	29.59	0
6/9/2019 0:45	8.89	38.63	7.239	10.12	29.59	0
6/9/2019 1:00	8.58	30.98	5.498	10.07	29.58	0
6/9/2019 1:15	8.04	33.27	5.405	9.93	29.58	0
6/9/2019 1:30	9.43	32.07	5.033	9.85	29.58	0
6/9/2019 1:45	6.98	47.32	10.93	9.5	29.58	0
6/9/2019 2:00	5.432	50.91	10.27	9.51	29.58	0
6/9/2019 2:15	4.537	49.1	6.101	9.27	29.58	0
6/9/2019 2:30	4.15	56.58	9.42	9.13	29.58	0
6/9/2019 2:45	4.601	34.21	13.76	9.14	29.58	0
6/9/2019 3:00	3.501	24.35	6.194	8.76	29.58	0
6/9/2019 3:15	3.227	19.08	5.554	8.7	29.58	0
6/9/2019 3:30	3.08	10.8	5.813	8.58	29.58	0
6/9/2019 3:45	3.522	5.812	2.109	8.54	29.58	0
6/9/2019 4:00	4.133	16.25	3.85	8.46	29.56	0
6/9/2019 4:15	3.583	5.913	4.334	8.38	29.56	0
6/9/2019 4:30	3.536	27.62	8.91	7.843	29.56	0
6/9/2019 4:45	3.689	25.86	4.58	7.66	29.56	0
6/9/2019 5:00	4.2	29.16	6.472	7.922	29.56	0
6/9/2019 5:15	3.732	31.55	6.613	7.898	29.56	0
6/9/2019 5:30	4.542	29.32	11.84	7.921	29.56	0
6/9/2019 5:45	4.858	18.93	9.06	8.61	29.56	0
6/9/2019 6:00	3.526	48.78	11.32	9.28	29.57	0
6/9/2019 6:15	4.252	56.52	16.05	9.56	29.57	0
6/9/2019 6:30	5.695	30.7	7.153	9.26	29.57	0
6/9/2019 6:45	5.387	21.32	7.123	9.76	29.57	0
6/9/2019 7:00	4.492	21.27	8.87	10.49	29.55	0
6/9/2019 7:15	3.557	36.17	16.11	11.15	29.55	0
6/9/2019 7:30	1.637	31.04	15.49	11.91	29.55	0
6/9/2019 7:45	1.603	96.6	27.61	12.36	29.55	0
6/9/2019 8:00	1.045	46.12	53.97	12.77	29.56	0
6/9/2019 8:15	1.954	274.8	22.07	12.91	29.56	0
6/9/2019 8:30	1.86	286.5	25.69	13.5	29.56	0
6/9/2019 8:45	2.529	284.6	31.05	14.03	29.56	0
6/9/2019 9:00	3.013	326.1	37.48	14.43	29.57	0
6/9/2019 9:15	2.307	297.2	44.87	15.05	29.57	0
6/9/2019 9:30	2.642	297.4	34.7	15.53	29.57	0
6/9/2019 9:45	2.873	298.7	43.1	16.37	29.57	0
6/9/2019 10:00	4.263	277	27.79	16.34	29.55	0
6/9/2019 10:15	4.413	296.5	33.61	17.18	29.55	0
6/9/2019 10:30	4.746	323.6	29.01	17.72	29.55	0
6/9/2019 10:45	4.01	340.7	38.69	17.94	29.55	0

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6/9/2019 11:00	5.072	344.6	26.5	18.56	29.55	0
6/9/2019 11:15	3.841	349.9	46.22	19.04	29.55	0
6/9/2019 11:30	6.259	23.72	22.66	19.3	29.55	0
6/9/2019 11:45	7.966	323.2	17.49	19.7	29.55	0
6/9/2019 12:00	7.889	296.7	14.21	19.75	29.51	0
6/9/2019 12:15	6.044	306.7	21.09	20.04	29.51	0
6/9/2019 12:30	6.325	315.8	26.1	20.26	29.51	0
6/9/2019 12:45	6.643	300.8	18.87	20.49	29.51	0
6/9/2019 13:00	6.439	309.2	19.23	20.33	29.52	0
6/9/2019 13:15	6.732	313	20.21	20.42	29.52	0
6/9/2019 13:30	5.695	324.9	22.59	20.74	29.52	0
6/9/2019 13:45	6.648	307	13.86	20.56	29.52	0
6/9/2019 14:00	4.835	328.1	27.41	20.86	29.52	0
6/9/2019 14:15	5.305	323	30.87	21.18	29.52	0
6/9/2019 14:30	3.814	357.5	24.86	21.63	29.52	0
6/9/2019 14:45	4.981	358.8	49.09	22.08	29.52	0
6/9/2019 15:00	4.309	342.1	38.75	22.1	29.49	0
6/9/2019 15:15	7.132	352.1	25.86	21.83	29.49	0
6/9/2019 15:30	6.468	336.7	27.32	22.05	29.49	0
6/9/2019 15:45	5.712	322.9	17.95	21.91	29.49	0
6/9/2019 16:00	5.819	328	23.13	21.98	29.47	0
6/9/2019 16:15	8.39	317.2	12.42	21.94	29.47	0
6/9/2019 16:30	9.23	316.3	12.56	21.76	29.47	0
6/9/2019 16:45	9.17	350.1	22.32	21.11	29.47	0
6/9/2019 17:00	10.67	336.7	11.46	20.61	29.48	0
6/9/2019 17:15	7.913	337.1	12.62	20.29	29.48	0
6/9/2019 17:30	8.51	328.1	11.16	20.02	29.48	0
6/9/2019 17:45	7.658	325.4	11.8	19.98	29.48	0
6/9/2019 18:00	6.633	322.2	12.57	20.03	29.46	0
6/9/2019 18:15	6.796	332.4	16.06	20.02	29.46	0
6/9/2019 18:30	7.981	339.5	13.27	19.77	29.46	0
6/9/2019 18:45	7.431	344.2	12.44	19.47	29.46	0
6/9/2019 19:00	7.495	336.1	12.63	18.94	29.48	0
6/9/2019 19:15	7.187	334.1	10.97	18.33	29.48	0
6/9/2019 19:30	7.143	336.2	17.3	18.16	29.48	0
6/9/2019 19:45	7.208	6.638	8.94	17.64	29.48	0
6/9/2019 20:00	5.279	12.42	21.23	16.95	29.48	0
6/9/2019 20:15	7.242	19.86	13.43	16.65	29.48	0
6/9/2019 20:30	8.21	11.02	11.7	16.41	29.48	0
6/9/2019 20:45	9.5	17.78	14.15	16.45	29.48	0
6/9/2019 21:00	8.84	18.76	9.36	15.99	29.49	0
6/9/2019 21:15	10.44	6.865	10.85	16.03	29.49	0
6/9/2019 21:30	8.88	13.1	9.17	15.56	29.49	0
6/9/2019 21:45	10.12	20.08	8.33	15.19	29.49	0
6/9/2019 22:00	11.61	26.46	8.07	14.95	29.48	0
6/9/2019 22:15	14.76	28.92	6.613	14.73	29.48	0
6/9/2019 22:30	11.5	35.24	8.58	14.47	29.48	0

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6/9/2019 22:45	11.05	35.47	6.429	14.28	29.48	0
6/9/2019 23:00	12.39	29.07	9.17	13.99	29.5	0
6/9/2019 23:15	13.57	23.32	6.449	13.64	29.5	0
6/9/2019 23:30	13.47	22.59	6.735	13.1	29.5	0
6/9/2019 23:45	15.07	12.06	5.197	12.99	29.5	0
6/10/2019 0:00	8.69	36.53	18.26	12.66	29.5	0
6/10/2019 0:15	8.34	45.97	13.16	12.29	29.5	0
6/10/2019 0:30	9.72	35.65	9.3	12.04	29.5	0
6/10/2019 0:45	10.6	34.02	7.609	11.88	29.5	0
6/10/2019 1:00	9.21	29.62	9.31	11.69	29.46	0
6/10/2019 1:15	7.19	42.2	9.61	11.53	29.46	0
6/10/2019 1:30	6.925	40.25	6.727	11.2	29.46	0
6/10/2019 1:45	5.364	35.47	8.21	11.11	29.46	0
6/10/2019 2:00	5.406	29.68	7.368	10.95	29.49	0
6/10/2019 2:15	5.171	23.71	5.427	10.73	29.49	0
6/10/2019 2:30	4.71	23.6	8.22	10.6	29.49	0
6/10/2019 2:45	4.226	18.14	6.703	10.56	29.49	0
6/10/2019 3:00	4.039	19.04	7.233	10.6	29.47	0
6/10/2019 3:15	4.532	27.49	5.654	10.45	29.47	0
6/10/2019 3:30	6.125	28.51	6.931	10.32	29.47	0
6/10/2019 3:45	7.165	23.44	6.141	10.29	29.47	0
6/10/2019 4:00	6.243	30.27	8.12	10.19	29.46	0
6/10/2019 4:15	6.138	33.45	7.559	10.11	29.46	0
6/10/2019 4:30	5.664	37.18	8.54	9.98	29.46	0
6/10/2019 4:45	4.843	30.93	9.3	10.35	29.46	0
6/10/2019 5:00	4.476	20.48	8.12	10.09	29.46	0
6/10/2019 5:15	3.59	39.01	3.343	10.14	29.46	0
6/10/2019 5:30	2.988	20.02	8.07	10.22	29.46	0
6/10/2019 5:45	3.472	1.967	7.743	10.91	29.46	0
6/10/2019 6:00	3.203	12	9.97	11.03	29.48	0
6/10/2019 6:15	2.85	14.89	7.986	11.17	29.48	0
6/10/2019 6:30	3.365	25.36	5.406	11.34	29.48	0
6/10/2019 6:45	3.867	23.92	7.194	11.32	29.48	0
6/10/2019 7:00	3.203	25.75	5.305	11.69	29.49	0
6/10/2019 7:15	1.87	32.08	13.15	13.29	29.49	0
6/10/2019 7:30	1.71	65.93	21.85	14.66	29.49	0
6/10/2019 7:45	1.339	267.4	93.1	15.08	29.49	0
6/10/2019 8:00	2.067	258.8	24.12	14.86	29.49	0
6/10/2019 8:15	2.52	271	18.18	15.56	29.49	0
6/10/2019 8:30	2.076	272.7	27.94	15.95	29.49	0
6/10/2019 8:45	3.528	353.1	38.17	16.81	29.49	0
6/10/2019 9:00	2.904	309.1	35.84	16.89	29.49	0
6/10/2019 9:15	2.129	298.3	45.2	17.69	29.49	0
6/10/2019 9:30	3.858	325.1	27.39	18.25	29.49	0
6/10/2019 9:45	4.961	319.6	34.48	18.92	29.49	0
6/10/2019 10:00	5.399	276.1	17.52	19.13	29.48	0
6/10/2019 10:15	4.115	267.4	26.68	19.46	29.48	0

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6/10/2019 10:30	6.836	270.7	13.02	20.05	29.48	0
6/10/2019 10:45	7.657	309.1	21.94	20.98	29.48	0
6/10/2019 11:00	8.16	310.9	11.88	21.25	29.48	0
6/10/2019 11:15	9.55	305.4	21.96	21.49	29.48	0
6/10/2019 11:30	9.11	312.5	15.03	21.83	29.48	0
6/10/2019 11:45	8.64	340.8	29.77	22.18	29.48	0
6/10/2019 12:00	10.32	322.1	15.03	22.3	29.48	0
6/10/2019 12:15	10.73	320.3	17.39	22.46	29.48	0
6/10/2019 12:30	8.22	341.7	26.64	22.96	29.48	0
6/10/2019 12:45	10.6	7.569	21.87	22.95	29.48	0
6/10/2019 13:00	11.52	25.6	9.7	22.67	29.49	0
6/10/2019 13:15	9.72	19.61	17.21	23.41	29.49	0
6/10/2019 13:30	10.4	3.771	21.33	23.52	29.49	0
6/10/2019 13:45	10.56	359.8	22.89	23.46	29.49	0
6/10/2019 14:00	9.13	343.3	21.82	23.79	29.47	0
6/10/2019 14:15	9.07	335.9	24.64	23.69	29.47	0
6/10/2019 14:30	9.95	353.9	19.8	23.84	29.47	0
6/10/2019 14:45	9.32	342.8	24.48	24	29.47	0
6/10/2019 15:00	8.54	339.5	23.39	23.92	29.47	0
6/10/2019 15:15	9.91	342.1	18.88	24.11	29.47	0
6/10/2019 15:30	11.01	345.8	29.28	23.4	29.47	0
6/10/2019 15:45	10.45	341.5	13.85	23.7	29.47	0
6/10/2019 16:00	9.87	341.4	20.24	23.59	29.45	0
6/10/2019 16:15	8.64	352.9	25.81	23.67	29.45	0
6/10/2019 16:30	8.47	348.4	18.07	23.48	29.45	0
6/10/2019 16:45	8.32	330.2	23.68	23.37	29.45	0
6/10/2019 17:00	8.01	331.5	23.28	23.31	29.44	0
6/10/2019 17:15	8.62	321	13.4	23.25	29.44	0
6/10/2019 17:30	8.59	316.7	9.81	23.14	29.44	0
6/10/2019 17:45	8.43	318.3	21.51	22.79	29.44	0
6/10/2019 18:00	6.426	343.8	24.76	22.6	29.46	0
6/10/2019 18:15	6.464	318.3	11.56	22.58	29.46	0
6/10/2019 18:30	6.861	305.3	15.88	22.35	29.46	0
6/10/2019 18:45	7.573	290.9	10.86	22.03	29.46	0
6/10/2019 19:00	8.16	298.6	7.579	21.48	29.44	0
6/10/2019 19:15	8.66	305.3	5.87	20.79	29.44	0
6/10/2019 19:30	8.81	304.2	5.96	20.14	29.44	0
6/10/2019 19:45	7.619	299.6	6.2	19.69	29.44	0
6/10/2019 20:00	6.427	300.5	5.963	19.07	29.43	0
6/10/2019 20:15	5.779	285.9	4.392	18.87	29.43	0
6/10/2019 20:30	4.484	297.2	16.61	18.55	29.43	0
6/10/2019 20:45	4.947	4.505	11.73	18.7	29.43	0
6/10/2019 21:00	6.257	359.8	8.74	18.43	29.47	0
6/10/2019 21:15	7.526	5.246	3.974	18.11	29.47	0
6/10/2019 21:30	7.176	360	11.8	17.9	29.47	0
6/10/2019 21:45	4.869	340.9	10.6	18.07	29.47	0
6/10/2019 22:00	6.233	351.7	12.6	17.98	29.46	0

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6/10/2019 22:15	6.426	12.28	14.01	17.59	29.46	0
6/10/2019 22:30	5.202	33.94	8.31	16.66	29.46	0
6/10/2019 22:45	5.476	25.33	11.3	16.23	29.46	0
6/10/2019 23:00	6.944	12.83	4.527	16.04	29.47	0
6/10/2019 23:15	7.324	19.3	6.138	15.97	29.47	0
6/10/2019 23:30	6.418	18.95	8.7	15.59	29.47	0
6/10/2019 23:45	6.688	31.76	10.54	15.48	29.47	0
6/11/2019 0:00	3.705	35.05	8.84	15.33	29.46	0
6/11/2019 0:15	1.509	62.49	21.9	15.27	29.46	0
6/11/2019 0:30	2.815	103.8	20.55	15.26	29.46	0
6/11/2019 0:45	3.141	65.01	58.22	15.57	29.46	0
6/11/2019 1:00	2.91	93	65.94	15.5	29.48	0
6/11/2019 1:15	4.082	31.98	50.43	15.48	29.48	0
6/11/2019 1:30	3.634	20.78	25.68	15.22	29.48	0
6/11/2019 1:45	4.692	19.58	18.23	15.14	29.48	0
6/11/2019 2:00	5.012	5.42	13.15	14.93	29.47	0
6/11/2019 2:15	6.093	13.2	8.84	14.14	29.47	0
6/11/2019 2:30	8.37	21.37	7.982	14.01	29.47	0
6/11/2019 2:45	11.43	19.24	6.283	14.55	29.47	0
6/11/2019 3:00	11.2	19.87	7.971	14.31	29.45	0
6/11/2019 3:15	12.04	9.69	7.587	14.17	29.45	0
6/11/2019 3:30	11.05	20.3	6.47	13.76	29.45	0
6/11/2019 3:45	11.68	18.35	6.07	13.63	29.45	0
6/11/2019 4:00	9.72	28.53	8.53	13.26	29.44	0
6/11/2019 4:15	9.55	32.84	9.42	12.94	29.44	0
6/11/2019 4:30	8.77	21.97	8.12	12.84	29.44	0
6/11/2019 4:45	7.823	17.3	8.52	12.7	29.44	0
6/11/2019 5:00	7.341	10.41	8.08	12.81	29.45	0
6/11/2019 5:15	7.652	20.16	6.27	13.09	29.45	0
6/11/2019 5:30	7.819	17.9	10.75	13.05	29.45	0
6/11/2019 5:45	5.148	23.39	9.29	13.15	29.45	0
6/11/2019 6:00	6.04	23.47	6.798	13.55	29.45	0
6/11/2019 6:15	6.28	27.94	8.03	13.91	29.45	0
6/11/2019 6:30	5.006	31.5	11.82	14.26	29.45	0
6/11/2019 6:45	3.697	31.6	15.85	14.77	29.45	0
6/11/2019 7:00	4.382	29.69	15.07	15.32	29.45	0
6/11/2019 7:15	4.168	29.17	12.69	15.9	29.45	0
6/11/2019 7:30	5.11	23.68	10.44	16.33	29.45	0
6/11/2019 7:45	5.479	26.7	11.2	16.93	29.45	0
6/11/2019 8:00	7.211	16.71	7.277	17.61	29.45	0
6/11/2019 8:15	8.41	13.32	9.69	18.33	29.45	0
6/11/2019 8:30	9	7.186	11.71	19.15	29.45	0
6/11/2019 8:45	8.22	11.24	13.49	19.82	29.45	0
6/11/2019 9:00	9.37	13.61	12.44	20.3	29.44	0
6/11/2019 9:15	9.76	15.58	9.44	20.79	29.44	0
6/11/2019 9:30	11.03	15.19	13.17	20.96	29.44	0
6/11/2019 9:45	8.96	11.93	14.7	21.46	29.44	0

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6/11/2019 10:00	10.13	17.97	11.16	21.93	29.42	0
6/11/2019 10:15	10.69	19.88	12.24	22.2	29.42	0
6/11/2019 10:30	6.725	5.496	40.6	23.27	29.42	0
6/11/2019 10:45	9.93	13.68	13.63	23.55	29.42	0
6/11/2019 11:00	9.98	14.53	12.01	23.73	29.41	0
6/11/2019 11:15	8.54	6.879	15.71	24.5	29.41	0
6/11/2019 11:30	9.25	4.635	18.08	25	29.41	0
6/11/2019 11:45	9.53	11.02	13.96	25.2	29.41	0
6/11/2019 12:00	10.34	2.891	15.73	25.64	29.39	0
6/11/2019 12:15	10.33	1.805	14.39	26.17	29.39	0
6/11/2019 12:30	11.67	9.83	11.43	26.28	29.39	0
6/11/2019 12:45	10.53	13.37	12.61	26.67	29.39	0
6/11/2019 13:00	10.81	3.146	12.53	27.12	29.34	0
6/11/2019 13:15	12.48	7.027	14.51	27.24	29.34	0
6/11/2019 13:30	12.56	6.156	12.71	27.5	29.34	0
6/11/2019 13:45	10.88	5.191	12.03	27.64	29.34	0
6/11/2019 14:00	12.39	356.2	14.47	27.76	29.33	0
6/11/2019 14:15	13.53	357.4	13.34	27.96	29.33	0
6/11/2019 14:30	12.97	353.7	13.86	28.22	29.33	0
6/11/2019 14:45	13.61	352.4	13.34	28.06	29.33	0
6/11/2019 15:00	14.36	354.4	14.77	28.25	29.3	0
6/11/2019 15:15	15.28	358.9	14.26	27.99	29.3	0
6/11/2019 15:30	12.93	351.9	18.71	28.17	29.3	0
6/11/2019 15:45	13.15	352.9	17.24	28.44	29.3	0
6/11/2019 16:00	13.09	349	15.49	28.35	29.28	0
6/11/2019 16:15	12.01	346.5	16.21	28.63	29.28	0
6/11/2019 16:30	11.79	332.9	12.57	28.39	29.28	0
6/11/2019 16:45	11.84	332	16.62	28.37	29.28	0
6/11/2019 17:00	9.86	322.5	14.37	28.3	29.28	0
6/11/2019 17:15	6.162	313.9	25.29	28.52	29.28	0
6/11/2019 17:30	6.86	296.9	18.6	28.25	29.28	0
6/11/2019 17:45	6.154	311.2	20.98	28.01	29.28	0
6/11/2019 18:00	4.674	355.5	27.57	27.92	29.28	0
6/11/2019 18:15	4.915	334.2	34.34	27.62	29.28	0
6/11/2019 18:30	5.008	309	33.61	27.48	29.28	0
6/11/2019 18:45	5.863	356.5	25.64	26.92	29.28	0
6/11/2019 19:00	6.799	359.6	24.22	26.49	29.27	0
6/11/2019 19:15	5.527	356.2	15.09	26.2	29.27	0
6/11/2019 19:30	5.499	348.8	17.14	25.93	29.27	0
6/11/2019 19:45	5.315	1.302	20.15	25.58	29.27	0
6/11/2019 20:00	5.726	19.15	20.77	25.12	29.25	0
6/11/2019 20:15	7.638	18.57	11.84	24.8	29.25	0
6/11/2019 20:30	6.506	26.56	10.51	24.24	29.25	0
6/11/2019 20:45	5.253	12.79	15.13	23.9	29.25	0
6/11/2019 21:00	7.031	18.91	19.82	23.96	29.25	0
6/11/2019 21:15	10.32	16.91	10.27	23.12	29.25	0
6/11/2019 21:30	13.92	8.65	11.37	22.83	29.25	0

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6/11/2019 21:45	14.85	10.41	10.74	22.66	29.25	0
6/11/2019 22:00	14.42	5.44	10.45	22.57	29.25	0
6/11/2019 22:15	13.3	13.55	11.85	22.48	29.25	0
6/11/2019 22:30	11.98	14.47	8.94	21.88	29.25	0
6/11/2019 22:45	11.54	20.59	7.353	21.73	29.25	0
6/11/2019 23:00	10.49	18.7	8.2	21.2	29.22	0
6/11/2019 23:15	8.7	12.76	8.53	21.03	29.22	0
6/11/2019 23:30	10.91	23.75	8.32	20.73	29.22	0
6/11/2019 23:45	12.04	23.77	7.973	20.35	29.22	0
6/12/2019 0:00	11.18	29.31	8.49	20.27	29.21	0
6/12/2019 0:15	9.57	27.55	8.63	19.75	29.21	0
6/12/2019 0:30	9.05	20.01	8.95	19.38	29.21	0
6/12/2019 0:45	6.154	16.75	8.38	19.23	29.21	0
6/12/2019 1:00	4.026	20.62	5.625	18.97	29.22	0
6/12/2019 1:15	4.434	24.73	5.839	18.85	29.22	0
6/12/2019 1:30	5.085	26.07	8.42	18.47	29.22	0
6/12/2019 1:45	5.454	20.81	10.64	18.06	29.22	0
6/12/2019 2:00	5.818	15.09	10.66	18.01	29.2	0
6/12/2019 2:15	5.609	6.633	7.282	17.79	29.2	0
6/12/2019 2:30	6.039	23.8	6.987	17.64	29.2	0
6/12/2019 2:45	5.413	23.81	6.542	17.31	29.2	0
6/12/2019 3:00	5.437	23.33	7.484	17.19	29.18	0
6/12/2019 3:15	5.239	21.77	8.65	16.97	29.18	0
6/12/2019 3:30	4.525	14.95	9.98	16.73	29.18	0
6/12/2019 3:45	4.156	357.5	9	16.91	29.18	0
6/12/2019 4:00	3.08	341.1	24.99	17.19	29.19	0
6/12/2019 4:15	2.045	322.6	35.64	16.82	29.19	0
6/12/2019 4:30	3.697	5.917	4.99	16.75	29.19	0
6/12/2019 4:45	3.931	12.3	8.1	17.04	29.19	0
6/12/2019 5:00	3.614	0.431	14.27	16.42	29.19	0
6/12/2019 5:15	2.709	12.24	11.91	16.81	29.19	0
6/12/2019 5:30	2.273	13.35	5.019	17.06	29.19	0
6/12/2019 5:45	2.834	27.51	10.77	16.57	29.19	0
6/12/2019 6:00	3.619	22.49	5.978	17.1	29.18	0
6/12/2019 6:15	4.348	18.23	8.72	17.19	29.18	0
6/12/2019 6:30	5.073	15.92	6.564	18.11	29.18	0
6/12/2019 6:45	3.665	18.88	10.54	18.93	29.18	0
6/12/2019 7:00	3.982	12.34	9.11	19.67	29.16	0
6/12/2019 7:15	3.02	6.502	8.72	19.89	29.16	0
6/12/2019 7:30	1.41	34.02	67.08	20.46	29.16	0
6/12/2019 7:45	2.114	332	63.39	22.44	29.16	0
6/12/2019 8:00	2.439	328.6	19.82	23.25	29.17	0
6/12/2019 8:15	2.054	273.8	52.98	23.84	29.17	0
6/12/2019 8:30	1.955	312.1	75.39	24.16	29.17	0
6/12/2019 8:45	2.135	56.94	33.64	24.8	29.17	0
6/12/2019 9:00	2.566	47.46	26.84	25.31	29.17	0
6/12/2019 9:15	2.179	41.6	27.42	26.06	29.17	0



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6/12/2019 9:30	1.801	55.8	26.85	27.13	29.17	0
6/12/2019 9:45	2.514	5.713	22.12	26.99	29.17	0
6/12/2019 10:00	2.05	329.5	42.17	27.06	29.14	0
6/12/2019 10:15	2.652	37.58	22.48	26.43	29.14	0
6/12/2019 10:30	3.352	27.29	12.25	26.27	29.14	0
6/12/2019 10:45	2.531	24.94	18.41	27.41	29.14	0
6/12/2019 11:00	3.675	15.87	24.42	28.32	29.12	0
6/12/2019 11:15	2.085	288	54.31	28.6	29.12	0
6/12/2019 11:30	2.479	320.8	21.96	28.9	29.12	0
6/12/2019 11:45	3.403	12.69	20.41	29.35	29.12	0
6/12/2019 12:00	3.209	8.17	46.98	30.3	29.13	0
6/12/2019 12:15	5.95	273	15.67	30.1	29.13	0
6/12/2019 12:30	6.594	281	15.24	30.31	29.13	0
6/12/2019 12:45	6.325	251.8	12.26	30.68	29.13	0
6/12/2019 13:00	5.847	251.8	15.59	30.58	29.12	0
6/12/2019 13:15	6.358	261.9	25.65	30.99	29.12	0
6/12/2019 13:30	6.059	260.1	22.49	31.34	29.12	0
6/12/2019 13:45	5.743	281.9	22.65	31.48	29.12	0
6/12/2019 14:00	6.584	264.8	12.63	31.31	29.09	0
6/12/2019 14:15	6.671	252.6	12.11	31.46	29.09	0
6/12/2019 14:30	6.864	265.7	7.774	31.38	29.09	0
6/12/2019 14:45	7.454	269.5	10.02	32.03	29.09	0
6/12/2019 15:00	5.753	283.3	27.18	31.8	29.07	0
6/12/2019 15:15	5.623	277.8	17.29	31.55	29.07	0
6/12/2019 15:30	4.609	270.6	11.57	30.54	29.07	0
6/12/2019 15:45	2.519	315.4	18.49	30.75	29.07	0
6/12/2019 16:00	3.142	330.2	13.8	31.45	29.06	0
6/12/2019 16:15	1.608	268.8	23.2	31.41	29.06	0
6/12/2019 16:30	2.31	91.9	24.32	30.85	29.06	0
6/12/2019 16:45	2.773	242.7	77.79	31.9	29.06	0
6/12/2019 17:00	2.622	233.7	41.46	32.31	29.06	0
6/12/2019 17:15	4.204	211.7	20.98	32	29.06	0
6/12/2019 17:30	4.331	227.3	19.69	31.78	29.06	0
6/12/2019 17:45	6.998	260.2	14.08	31.05	29.06	0
6/12/2019 18:00	6.849	265.7	5.68	30.21	29.02	0
6/12/2019 18:15	5.905	265.9	6.854	30.18	29.02	0
6/12/2019 18:30	3.909	287.9	7.546	30.36	29.02	0
6/12/2019 18:45	3.138	313.8	5.188	30.94	29.02	0
6/12/2019 19:00	2.149	37.51	38.58	29.9	29.03	0
6/12/2019 19:15	1.568	61.24	7.677	29.49	29.03	0
6/12/2019 19:30	0.152	53.01	0.035	29.67	29.03	0
6/12/2019 19:45	0.394	44.38	22	29.43	29.03	0
6/12/2019 20:00	3.861	294.5	8.54	27.67	29.03	0
6/12/2019 20:15	3.815	344.1	23.94	26.77	29.03	0
6/12/2019 20:30	5.432	18.25	7.381	25.82	29.03	0
6/12/2019 20:45	6.403	14.93	5.538	25.51	29.03	0
6/12/2019 21:00	5.551	18.66	4.89	25.17	29.03	0

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6/12/2019 21:15	4.915	27.62	3.842	24.94	29.03	0
6/12/2019 21:30	4.414	29.32	5.191	24.35	29.03	0
6/12/2019 21:45	3.186	23.67	5.987	24.47	29.03	0
6/12/2019 22:00	1.332	35.11	35.53	24.18	29.03	0
6/12/2019 22:15	6.45	186	8.24	23.52	29.03	0
6/12/2019 22:30	6.425	178.3	3.656	23.2	29.03	0
6/12/2019 22:45	3.207	102.2	45.51	22.38	29.03	0
6/12/2019 23:00	1.614	66.21	13.23	22.04	29.06	0
6/12/2019 23:15	5.943	132.8	5.481	22.74	29.06	0
6/12/2019 23:30	5.017	125.3	5.276	22.61	29.06	0
6/12/2019 23:45	4.917	126.2	6.857	22.15	29.06	0
6/13/2019 0:00	3.14	104.9	14.57	21.85	29.05	0
6/13/2019 0:15	4.264	111.9	9.47	21.84	29.05	0
6/13/2019 0:30	4.84	119.3	9.9	21.84	29.05	0
6/13/2019 0:45	3.885	150.7	13.84	21.65	29.05	0
6/13/2019 1:00	2.25	125.2	18.6	21.74	29.05	0
6/13/2019 1:15	2.782	150.6	16.31	21.68	29.05	0
6/13/2019 1:30	2.368	159.9	12.9	21.58	29.05	0
6/13/2019 1:45	4.828	133.5	5.198	21.13	29.05	0
6/13/2019 2:00	4.713	135.9	6.677	21.02	29.06	0
6/13/2019 2:15	2.359	144.4	14.59	20.72	29.06	0
6/13/2019 2:30	3.086	150.9	7.561	20.98	29.06	0
6/13/2019 2:45	4.129	134.3	8.64	20.99	29.06	0
6/13/2019 3:00	4.471	135.6	12.34	20.73	29.06	0
6/13/2019 3:15	4.833	153.5	9.28	20.22	29.06	0
6/13/2019 3:30	5.202	178.3	10.95	19.84	29.06	0
6/13/2019 3:45	5.088	163.6	9	19.01	29.06	0
6/13/2019 4:00	5.171	167.7	8.21	18.88	29.06	0
6/13/2019 4:15	6.371	178.1	2.869	18.56	29.06	0
6/13/2019 4:30	5.704	185.3	4.78	18.38	29.06	0
6/13/2019 4:45	3.865	208.4	8.42	18.52	29.06	0
6/13/2019 5:00	4.414	204.8	11.37	18.49	29.09	0
6/13/2019 5:15	3.95	210.7	11.47	18.02	29.09	0
6/13/2019 5:30	3.895	209.6	12.49	18.03	29.09	0
6/13/2019 5:45	5.228	191.3	12.33	17.83	29.09	0
6/13/2019 6:00	4.913	180.8	9.75	17.48	29.09	0
6/13/2019 6:15	5.322	200.7	5.867	17.62	29.09	0
6/13/2019 6:30	5.639	207.6	8.98	17.95	29.09	0
6/13/2019 6:45	7.284	202.7	10.1	18.13	29.09	0
6/13/2019 7:00	7.591	208	6.473	18.15	29.11	0
6/13/2019 7:15	7.97	201.5	8.85	18.6	29.11	0
6/13/2019 7:30	11.68	203.4	6.283	18.68	29.11	0
6/13/2019 7:45	7.927	202.7	12.11	18.68	29.11	0
6/13/2019 8:00	6.423	208.5	13.29	18.95	29.11	0
6/13/2019 8:15	5.741	184.5	21.68	19.62	29.11	0
6/13/2019 8:30	6.125	200.2	30.27	19.91	29.11	0
6/13/2019 8:45	6.453	191.4	17.24	19.76	29.11	0

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6/13/2019 9:00	5.683	211.8	23.49	20.2	29.12	0
6/13/2019 9:15	6.323	231.4	22.21	20.45	29.12	0
6/13/2019 9:30	6.292	223.8	23.08	20.61	29.12	0
6/13/2019 9:45	5.978	215.9	21.27	20.63	29.12	0
6/13/2019 10:00	7.745	254.6	24.66	20.81	29.12	0
6/13/2019 10:15	8.76	269.6	15.88	20.62	29.12	0
6/13/2019 10:30	10	276.5	12.88	20.45	29.12	0
6/13/2019 10:45	8.95	256.8	26.79	20.88	29.12	0
6/13/2019 11:00	9.89	253.3	12.9	20.8	29.12	0
6/13/2019 11:15	8.38	229.7	25.22	21.04	29.12	0
6/13/2019 11:30	9.38	240.6	13.96	20.83	29.12	0
6/13/2019 11:45	8.06	231.9	23.4	21.12	29.12	0
6/13/2019 12:00	6.997	196.1	29.01	21.53	29.12	0
6/13/2019 12:15	8.92	215.2	13.24	21.61	29.12	0
6/13/2019 12:30	8.77	218	21.56	21.97	29.12	0
6/13/2019 12:45	9.31	222.7	14.46	22.02	29.12	0
6/13/2019 13:00	7.457	215.6	29.96	22.66	29.13	0
6/13/2019 13:15	7.518	227.3	26.2	22.91	29.13	0
6/13/2019 13:30	6.488	234.1	29.18	22.54	29.13	0
6/13/2019 13:45	5.97	253.3	25.04	23.14	29.13	0
6/13/2019 14:00	8.1	238	19.18	23.01	29.12	0
6/13/2019 14:15	5.892	252.3	20.8	22.85	29.12	0
6/13/2019 14:30	7.039	249.2	19.68	23.39	29.12	0
6/13/2019 14:45	6.75	234.4	18.37	23.53	29.12	0
6/13/2019 15:00	7.381	196	21.98	23.69	29.12	0
6/13/2019 15:15	6.927	224.4	16.69	24.01	29.12	0
6/13/2019 15:30	6.589	222.9	19.74	24.04	29.12	0
6/13/2019 15:45	6.059	258.7	58.62	24.35	29.12	0
6/13/2019 16:00	3.788	256.4	32	24.38	29.1	0
6/13/2019 16:15	5.283	251.5	26.92	23.95	29.1	0
6/13/2019 16:30	5.771	258.4	21.95	23.78	29.1	0
6/13/2019 16:45	7.785	263.7	11.38	23.84	29.1	0
6/13/2019 17:00	8.67	266.4	9.77	23.59	29.1	0
6/13/2019 17:15	8.73	244	13.74	23.66	29.1	0
6/13/2019 17:30	10.2	225	10.88	23.38	29.1	0
6/13/2019 17:45	12.25	221.3	9.52	22.94	29.1	0
6/13/2019 18:00	10.34	234.9	12.97	22.79	29.09	0
6/13/2019 18:15	10.88	228.2	12.08	22.45	29.09	0
6/13/2019 18:30	10.77	226.7	13.09	22.24	29.09	0
6/13/2019 18:45	10.56	243.9	8.93	21.42	29.09	0
6/13/2019 19:00	11.72	247.4	9.67	20.38	29.11	0
6/13/2019 19:15	12.15	244	10.31	19.49	29.11	0
6/13/2019 19:30	10.35	247.9	14.71	18.57	29.11	0
6/13/2019 19:45	10.75	244.5	11.09	17.96	29.11	0
6/13/2019 20:00	7.489	244.1	14.9	17.4	29.12	0
6/13/2019 20:15	5.915	233.4	19.63	16.99	29.12	0
6/13/2019 20:30	6.387	234.1	12.46	16.63	29.12	0

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6/13/2019 20:45	6.644	252.6	12.71	16.09	29.12	0
6/13/2019 21:00	4.335	265.4	16.63	15.61	29.15	0
6/13/2019 21:15	5.039	250.1	15.57	15.23	29.15	0
6/13/2019 21:30	4.875	240.1	9.48	15.03	29.15	0
6/13/2019 21:45	5.746	249.9	11.59	14.63	29.15	0
6/13/2019 22:00	6.708	241.5	8.49	14.34	29.16	0
6/13/2019 22:15	7.538	253.5	8.77	13.99	29.16	0
6/13/2019 22:30	4.971	273.1	9.49	13.67	29.16	0
6/13/2019 22:45	3.765	263	15.73	13.51	29.16	0
6/13/2019 23:00	5.261	244.4	7.188	13.5	29.17	0
6/13/2019 23:15	5.459	248.4	6.499	13.31	29.17	0
6/13/2019 23:30	5.418	226.9	16.07	13.25	29.17	0
6/13/2019 23:45	8.26	188.2	6.769	12.86	29.17	0
6/14/2019 0:00	6.996	180.8	5.617	12.51	29.18	0
6/14/2019 0:15	7.954	179.8	7.257	12.37	29.18	0
6/14/2019 0:30	5.761	179.9	8.33	12.29	29.18	0
6/14/2019 0:45	5.975	161.9	15.33	12.27	29.18	0
6/14/2019 1:00	5.849	140.7	8.32	12	29.19	0
6/14/2019 1:15	4.43	120.6	12.56	11.95	29.19	0
6/14/2019 1:30	7.217	141	7.666	11.84	29.19	0
6/14/2019 1:45	7.284	133.5	7.864	11.77	29.19	0
6/14/2019 2:00	6.074	131.3	11.61	11.73	29.21	0
6/14/2019 2:15	4.721	125.7	14.28	11.74	29.21	0
6/14/2019 2:30	4.032	116.5	9.07	11.76	29.21	0
6/14/2019 2:45	3.486	108.1	17.48	11.79	29.21	0
6/14/2019 3:00	3.868	119.7	15.31	11.81	29.23	0
6/14/2019 3:15	3.936	126.3	8.35	11.8	29.23	0
6/14/2019 3:30	4.025	129.8	12.16	11.79	29.23	0
6/14/2019 3:45	3.98	124.7	8.02	11.77	29.23	0
6/14/2019 4:00	2.225	137	5.148	11.75	29.22	0
6/14/2019 4:15	1.406	119.5	9.97	11.77	29.22	0
6/14/2019 4:30	2.695	94.7	12.88	11.76	29.22	0
6/14/2019 4:45	3.122	113.5	9.46	11.8	29.22	0
6/14/2019 5:00	4.356	135.1	8.91	11.8	29.22	0
6/14/2019 5:15	3.418	132.3	12.95	11.86	29.22	0
6/14/2019 5:30	5.962	135.7	7.573	11.83	29.22	0
6/14/2019 5:45	5.985	151.2	16.01	11.89	29.22	0
6/14/2019 6:00	5.036	158.5	15.58	11.87	29.26	0
6/14/2019 6:15	6.054	178.2	7.138	11.6	29.26	0
6/14/2019 6:30	6.778	171.5	6.293	11.42	29.26	0
6/14/2019 6:45	5.545	168.8	9.37	11.57	29.26	0
6/14/2019 7:00	5.12	173.8	9.85	11.84	29.26	0
6/14/2019 7:15	4.92	153.5	16.75	12.25	29.26	0
6/14/2019 7:30	4.377	151.4	19.16	12.45	29.26	0
6/14/2019 7:45	4.641	167.6	23.5	12.41	29.26	0
6/14/2019 8:00	6.032	176.7	12.36	12.43	29.26	0
6/14/2019 8:15	5.305	208.4	9.2	12.38	29.26	0

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6/14/2019 8:30	4.893	202.9	12.04	12.67	29.26	0
6/14/2019 8:45	4.401	183.9	18.18	12.69	29.26	0
6/14/2019 9:00	3.889	169.7	10.68	12.78	29.26	0
6/14/2019 9:15	4.308	144.2	18.1	12.97	29.26	0
6/14/2019 9:30	4.478	111.1	15.04	13.18	29.26	0
6/14/2019 9:45	4.241	134.2	26.92	13.66	29.26	0
6/14/2019 10:00	2.999	138.5	38.36	13.83	29.28	0
6/14/2019 10:15	3.508	156.7	56.24	14.15	29.28	0
6/14/2019 10:30	1.663	235.7	38	13.98	29.28	0
6/14/2019 10:45	4.309	238.2	27.48	13.89	29.28	0
6/14/2019 11:00	3.082	183.3	33.52	14.52	29.28	0
6/14/2019 11:15	3.025	169.2	24.62	14.94	29.28	0
6/14/2019 11:30	3.86	217.7	29.05	15.35	29.28	0
6/14/2019 11:45	3.556	252.3	22.95	15.33	29.28	0
6/14/2019 12:00	3.731	210.2	35.8	15.61	29.27	0
6/14/2019 12:15	6.482	233.5	19.13	15.69	29.27	0
6/14/2019 12:30	5.137	224.6	29.45	15.5	29.27	0
6/14/2019 12:45	5.137	199.3	21.16	15.87	29.27	0
6/14/2019 13:00	3.769	198.4	21.15	15.81	29.28	0
6/14/2019 13:15	3.452	155.8	34.81	15.88	29.28	0
6/14/2019 13:30	3.382	154.5	25.3	15.94	29.28	0
6/14/2019 13:45	3.833	179.3	15.18	16.29	29.28	0
6/14/2019 14:00	5.08	203.9	31.85	16.57	29.29	0
6/14/2019 14:15	4.754	215.3	18.33	17.06	29.29	0
6/14/2019 14:30	3.559	203.2	41.67	16.6	29.29	0
6/14/2019 14:45	2.942	155.8	33.29	16.96	29.29	0
6/14/2019 15:00	4.008	130.7	49.97	16.92	29.26	0
6/14/2019 15:15	3.833	194.4	43.41	17.16	29.26	0
6/14/2019 15:30	4.049	171.1	38.83	17.47	29.26	0
6/14/2019 15:45	3.082	146	79.88	17.87	29.26	0
6/14/2019 16:00	3.194	245.3	23.18	17.9	29.26	0
6/14/2019 16:15	1.925	349.3	84.1	18.59	29.26	0
6/14/2019 16:30	1.889	47.17	84.8	18.86	29.26	0
6/14/2019 16:45	2.796	255.5	25.63	18.38	29.26	0
6/14/2019 17:00	3.062	261	22.84	18.2	29.24	0
6/14/2019 17:15	1.845	273.2	89	18.34	29.24	0
6/14/2019 17:30	2.274	245.7	29.88	18.18	29.24	0
6/14/2019 17:45	4.491	235	27.11	18.16	29.24	0
6/14/2019 18:00	3.033	247.8	41.87	18.15	29.23	0
6/14/2019 18:15	2.839	244.6	31.56	18.09	29.23	0
6/14/2019 18:30	3.545	234.1	17.08	18.08	29.23	0
6/14/2019 18:45	5.96	239.3	11.94	17.95	29.23	0
6/14/2019 19:00	8.45	237.5	11.72	17.43	29.25	0
6/14/2019 19:15	8.04	239.3	10.33	17.01	29.25	0
6/14/2019 19:30	7.092	250.1	6.48	16.85	29.25	0
6/14/2019 19:45	4.602	258	10.02	16.68	29.25	0
6/14/2019 20:00	4.958	241.3	9.54	16.36	29.24	0

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6/14/2019 20:15	4.839	238.7	7.918	15.9	29.24	0
6/14/2019 20:30	4.338	236.4	6.805	15.53	29.24	0
6/14/2019 20:45	5.377	226.6	6.331	15.43	29.24	0
6/14/2019 21:00	4.79	215.5	6.731	15.12	29.26	0
6/14/2019 21:15	4.686	228	7.435	14.87	29.26	0
6/14/2019 21:30	3.814	225.2	10.49	14.65	29.26	0
6/14/2019 21:45	2.903	207.3	7.322	14.56	29.26	0
6/14/2019 22:00	1.967	189.2	15.4	14.13	29.27	0
6/14/2019 22:15	0.515	197.3	6.593	13.89	29.27	0
6/14/2019 22:30	0.699	109.8	30.82	13.51	29.27	0
6/14/2019 22:45	0.999	86.1	0.251	13.48	29.27	0
6/14/2019 23:00	0	0	0	13.6	29.26	0
6/14/2019 23:15	0.544	192.3	5.089	13.66	29.26	0
6/14/2019 23:30	1.99	221	14.17	13.75	29.26	0
6/14/2019 23:45	2.36	236	1.718	13.56	29.26	0
6/15/2019 0:00	1.294	234.6	26.09	13.19	29.24	0
6/15/2019 0:15	0.183	296.7	14.33	12.56	29.24	0
6/15/2019 0:30	2.612	236.4	6.315	12.9	29.24	0
6/15/2019 0:45	2.349	252.5	4.148	12.86	29.24	0
6/15/2019 1:00	1.042	262.7	7.091	12.87	29.25	0
6/15/2019 1:15	2.881	257.1	6.825	12.8	29.25	0
6/15/2019 1:30	3.204	270.8	6.273	12.63	29.25	0
6/15/2019 1:45	3.559	267.2	5.856	12.43	29.25	0
6/15/2019 2:00	3.535	261.8	8.42	12.3	29.25	0
6/15/2019 2:15	3.689	258.9	6.69	12.17	29.25	0
6/15/2019 2:30	2.928	254.7	2.426	12.09	29.25	0
6/15/2019 2:45	3.095	254.4	2.093	11.97	29.25	0
6/15/2019 3:00	2.399	236.2	10.5	11.8	29.27	0
6/15/2019 3:15	2.537	242.6	10.97	11.6	29.27	0
6/15/2019 3:30	2.393	265.3	4.844	11.49	29.27	0
6/15/2019 3:45	3.511	269	1.674	11.36	29.27	0
6/15/2019 4:00	3.262	253.9	7.41	11.34	29.25	0
6/15/2019 4:15	3.654	238.1	5.516	11.37	29.25	0
6/15/2019 4:30	4.256	250.8	4.503	11.2	29.25	0
6/15/2019 4:45	3.719	255.7	4.902	11.09	29.25	0
6/15/2019 5:00	3.658	256	4.452	11.1	29.27	0
6/15/2019 5:15	3.904	250	3.57	11.15	29.27	0
6/15/2019 5:30	3.396	254.3	6.313	11.2	29.27	0
6/15/2019 5:45	3.665	255.7	3.564	11.11	29.27	0
6/15/2019 6:00	2.934	258.4	7.331	11.31	29.25	0
6/15/2019 6:15	2.815	254.2	9.63	11.5	29.25	0
6/15/2019 6:30	3.397	256.9	8.33	11.35	29.25	0
6/15/2019 6:45	3.706	282.9	11.88	11.54	29.25	0
6/15/2019 7:00	3.217	297.1	9.08	11.82	29.28	0
6/15/2019 7:15	2.555	317.4	9.81	11.97	29.28	0
6/15/2019 7:30	2.624	262.6	47.53	12.17	29.28	0
6/15/2019 7:45	2.791	262.3	33.47	12.05	29.28	0

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6/15/2019 8:00	2.381	293.6	32.64	12.43	29.28	0
6/15/2019 8:15	2.748	273.5	19.3	12.57	29.28	0
6/15/2019 8:30	3.313	267	20.13	12.61	29.28	0
6/15/2019 8:45	3.079	281.6	30.03	13.01	29.28	0
6/15/2019 9:00	3.291	288.6	20.19	13.37	29.26	0
6/15/2019 9:15	3.087	345.8	28.8	13.84	29.26	0
6/15/2019 9:30	2.237	324.7	47.7	14.92	29.26	0
6/15/2019 9:45	4.131	304.2	21.17	15.18	29.26	0
6/15/2019 10:00	4.87	273	14.63	15.06	29.27	0
6/15/2019 10:15	5.762	285.5	17.95	15.32	29.27	0
6/15/2019 10:30	6.347	287.6	22.31	15.87	29.27	0
6/15/2019 10:45	5.853	290.7	23.76	16.14	29.27	0
6/15/2019 11:00	6.243	287.2	16.55	16.86	29.26	0
6/15/2019 11:15	4.308	269.3	43.3	16.89	29.26	0
6/15/2019 11:30	5.559	301.2	22.66	17.11	29.26	0
6/15/2019 11:45	5.075	284.2	28.94	17.54	29.26	0
6/15/2019 12:00	5.961	281.9	23	18.13	29.25	0
6/15/2019 12:15	7.089	256.9	16.79	18.32	29.25	0
6/15/2019 12:30	7.698	275.7	17.19	18.7	29.25	0
6/15/2019 12:45	8.47	274.4	20.84	19.34	29.25	0
6/15/2019 13:00	7.172	282.6	26.11	19.44	29.26	0
6/15/2019 13:15	6.208	316.6	25.97	19.27	29.26	0
6/15/2019 13:30	6.306	300.3	34.67	19.73	29.26	0
6/15/2019 13:45	4.15	294.7	79.92	20.11	29.26	0
6/15/2019 14:00	5.683	331.8	36.83	20.68	29.23	0
6/15/2019 14:15	5.405	11.83	47.01	20.54	29.23	0
6/15/2019 14:30	5.291	1.559	44.04	21.19	29.23	0
6/15/2019 14:45	7.352	328.7	39.51	21.43	29.23	0
6/15/2019 15:00	6.709	310.5	31.42	21.3	29.23	0
6/15/2019 15:15	8.2	286.9	15.41	21.96	29.23	0
6/15/2019 15:30	9.89	284.6	13.11	21.68	29.23	0
6/15/2019 15:45	10.39	271.7	15.22	21.81	29.23	0
6/15/2019 16:00	8.71	289	17.53	21.71	29.23	0
6/15/2019 16:15	8.32	278.5	21.04	21.6	29.23	0
6/15/2019 16:30	7.398	284	19.48	21.68	29.23	0
6/15/2019 16:45	7.592	270.7	16.31	21.69	29.23	0
6/15/2019 17:00	8.49	269.6	20.86	21.66	29.22	0
6/15/2019 17:15	7.406	294.7	16.87	21.82	29.22	0
6/15/2019 17:30	7.835	274.9	14.64	21.68	29.22	0
6/15/2019 17:45	6.914	286.9	17.47	21.74	29.22	0
6/15/2019 18:00	7.064	283.2	14.36	21.58	29.2	0
6/15/2019 18:15	6.777	285.9	13.76	21.45	29.2	0
6/15/2019 18:30	6.905	294.2	8.22	21.39	29.2	0
6/15/2019 18:45	6.25	303.1	6.798	21.14	29.2	0
6/15/2019 19:00	6.16	308.2	8.77	20.95	29.21	0
6/15/2019 19:15	5.248	321.6	10.53	20.62	29.21	0
6/15/2019 19:30	5.086	340.5	9.99	20.25	29.21	0

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6/15/2019 19:45	4.372	350.8	4.312	19.88	29.21	0
6/15/2019 20:00	3.469	357	7.265	19.47	29.22	0
6/15/2019 20:15	3.756	352.9	9.59	19.01	29.22	0
6/15/2019 20:30	2.534	350.5	3.6	19.02	29.22	0
6/15/2019 20:45	2.106	341.8	7.255	18.91	29.22	0
6/15/2019 21:00	1.817	354.6	11.02	18.23	29.21	0
6/15/2019 21:15	1.552	18.84	6.344	17.82	29.21	0
6/15/2019 21:30	1.12	281.7	17.5	18.19	29.21	0
6/15/2019 21:45	2.687	15.79	9.14	17.19	29.21	0
6/15/2019 22:00	3.259	18.31	6.54	17.2	29.22	0
6/15/2019 22:15	3.783	22.94	5.074	16.81	29.22	0
6/15/2019 22:30	3.915	25.92	7.241	16.17	29.22	0
6/15/2019 22:45	4.355	26.84	9.32	15.24	29.22	0
6/15/2019 23:00	5.514	25.57	8.85	15.22	29.23	0
6/15/2019 23:15	5.34	4.506	17.71	15.06	29.23	0
6/15/2019 23:30	2.778	12.93	11.45	14.8	29.23	0
6/15/2019 23:45	2.234	21.37	8.98	14.41	29.23	0
6/16/2019 0:00	3.247	18.16	5.552	14.14	29.23	0
6/16/2019 0:15	3.463	17.97	8.95	13.75	29.23	0
6/16/2019 0:30	5.064	25.18	7.143	13.3	29.23	0
6/16/2019 0:45	5.69	28.71	9.32	13.24	29.23	0
6/16/2019 1:00	4.737	29.38	6.376	13.08	29.22	0
6/16/2019 1:15	3.901	15.82	7.432	12.93	29.22	0
6/16/2019 1:30	4.035	23.33	9.46	12.8	29.22	0
6/16/2019 1:45	3.34	21.41	5.151	12.72	29.22	0
6/16/2019 2:00	3.806	32.25	9.74	12.61	29.23	0
6/16/2019 2:15	3.53	43.88	9.55	12.36	29.23	0
6/16/2019 2:30	1.749	34.08	2.075	12.24	29.23	0
6/16/2019 2:45	2.142	43.86	9.03	12.04	29.23	0
6/16/2019 3:00	2.759	47.53	10.22	11.8	29.21	0
6/16/2019 3:15	2.951	128.3	20.81	11.89	29.21	0
6/16/2019 3:30	3.656	164.9	7.659	11.77	29.21	0
6/16/2019 3:45	4.271	179.4	4.704	11.68	29.21	0
6/16/2019 4:00	4.019	180.4	3.767	11.39	29.24	0
6/16/2019 4:15	5.092	195.8	4.815	11.18	29.24	0
6/16/2019 4:30	5.312	184.3	8.42	11.06	29.24	0
6/16/2019 4:45	3.588	155.4	16.79	10.98	29.24	0
6/16/2019 5:00	1.088	109.5	16.15	11.01	29.24	0
6/16/2019 5:15	1.094	99.4	1.897	11.06	29.24	0
6/16/2019 5:30	0.769	99.7	0.948	11.12	29.24	0
6/16/2019 5:45	0.927	180.8	38.25	11.28	29.24	0
6/16/2019 6:00	1.987	236.2	26.3	11.39	29.27	0
6/16/2019 6:15	2.223	42.57	74.73	11.38	29.27	0
6/16/2019 6:30	2.294	76.17	9.61	11.41	29.27	0
6/16/2019 6:45	1.616	92.5	15.87	11.44	29.27	0
6/16/2019 7:00	2.147	152	24.86	11.6	29.25	0
6/16/2019 7:15	1.328	155.3	58.85	11.63	29.25	0



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6/16/2019 7:30	2.89	212.6	23.42	11.66	29.25	0
6/16/2019 7:45	2.536	208.6	18.26	11.84	29.25	0
6/16/2019 8:00	2.215	256.8	30.42	12.11	29.25	0
6/16/2019 8:15	2.939	267.7	28.44	12.19	29.25	0
6/16/2019 8:30	1.899	316.6	14.22	12.35	29.25	0
6/16/2019 8:45	0.603	7.568	13	12.78	29.25	0
6/16/2019 9:00	2.625	298.1	27.02	12.93	29.24	0
6/16/2019 9:15	3.295	245.6	23.44	12.95	29.24	0
6/16/2019 9:30	2.132	95.1	71.71	13.08	29.24	0
6/16/2019 9:45	1.653	301	81	13.98	29.24	0
6/16/2019 10:00	4.992	225.1	16.3	14.01	29.26	0
6/16/2019 10:15	4.319	220	19.42	14.38	29.26	0
6/16/2019 10:30	4.281	181.1	17.01	14.43	29.26	0
6/16/2019 10:45	3.932	182.2	16.26	14.97	29.26	0
6/16/2019 11:00	3.699	209.9	38.74	15.59	29.25	0
6/16/2019 11:15	3.526	210.3	39.01	15.88	29.25	0
6/16/2019 11:30	3.345	136.1	71.7	16.45	29.25	0
6/16/2019 11:45	4.311	204.4	31.12	17.04	29.25	0
6/16/2019 12:00	5.44	173.1	32.65	17.61	29.26	0
6/16/2019 12:15	5.982	201.9	24.42	17.99	29.26	0
6/16/2019 12:30	6.353	188	31.23	18.48	29.26	0
6/16/2019 12:45	5.949	190.3	22.42	18.48	29.26	0
6/16/2019 13:00	6.907	193.1	25.49	18.84	29.24	0
6/16/2019 13:15	5.929	230.5	38.45	19.37	29.24	0
6/16/2019 13:30	5.287	241.4	30.58	20.14	29.24	0
6/16/2019 13:45	5.744	263.8	24.52	20.09	29.24	0
6/16/2019 14:00	6.246	265.4	18.15	20.73	29.23	0
6/16/2019 14:15	6.534	276.4	16.59	20.81	29.23	0
6/16/2019 14:30	7	269.6	17.05	21.21	29.23	0
6/16/2019 14:45	7.454	276.5	15.14	21.15	29.23	0
6/16/2019 15:00	8.22	256.4	13.05	21.17	29.22	0
6/16/2019 15:15	8.19	251.9	18.73	21.72	29.22	0
6/16/2019 15:30	8.59	251.5	13.55	21.99	29.22	0
6/16/2019 15:45	7.398	254.8	23.72	21.72	29.22	0
6/16/2019 16:00	6.52	278	15.75	21.78	29.23	0
6/16/2019 16:15	7.84	283.5	20.03	22.15	29.23	0
6/16/2019 16:30	7.119	288.6	20.69	22.7	29.23	0
6/16/2019 16:45	5.331	289.7	30.01	22.45	29.23	0
6/16/2019 17:00	4.913	306.7	20.92	22.89	29.2	0
6/16/2019 17:15	5.299	306.3	16.19	22.82	29.2	0
6/16/2019 17:30	5.336	342.8	36.92	22.76	29.2	0
6/16/2019 17:45	3.891	354.6	28.73	23.05	29.2	0
6/16/2019 18:00	6.032	29.83	9.97	22.24	29.21	0
6/16/2019 18:15	5.735	28.19	8.09	22.21	29.21	0
6/16/2019 18:30	6.018	3.602	13.47	21.92	29.21	0
6/16/2019 18:45	6.174	353.9	13.48	21.91	29.21	0
6/16/2019 19:00	6.832	340.2	8.21	21.47	29.2	0

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6/16/2019 19:15	6.587	357.7	13.21	20.9	29.2	0
6/16/2019 19:30	7.557	1.275	9.94	20.16	29.2	0
6/16/2019 19:45	7.468	0.97	9.35	19.84	29.2	0
6/16/2019 20:00	6.726	344.9	13.55	19.64	29.2	0
6/16/2019 20:15	6.992	0.61	11.38	19.21	29.2	0
6/16/2019 20:30	8.47	16.52	8.57	18.79	29.2	0
6/16/2019 20:45	4.148	357.2	15.36	19.33	29.2	0
6/16/2019 21:00	5.074	18.14	12.27	18.78	29.21	0
6/16/2019 21:15	5.011	22.69	7.37	17.93	29.21	0
6/16/2019 21:30	5.32	18.58	4.98	17.38	29.21	0
6/16/2019 21:45	5.799	17.25	9.28	17.28	29.21	0
6/16/2019 22:00	5.547	33.66	8.72	16.37	29.21	0
6/16/2019 22:15	7.533	29.41	10.59	16.44	29.21	0
6/16/2019 22:30	7.951	29.7	8.95	16.56	29.21	0
6/16/2019 22:45	7.963	27.65	9.08	16.41	29.21	0
6/16/2019 23:00	7.053	28.01	7.013	15.98	29.23	0
6/16/2019 23:15	5.478	31.8	15.05	15.77	29.23	0
6/16/2019 23:30	2.671	78.12	12.04	15.4	29.23	0
6/16/2019 23:45	3.227	63.19	11.05	14.92	29.23	0
6/17/2019 0:00	3.207	130	20.03	14.79	29.22	0
6/17/2019 0:15	4.6	145.6	9.13	14.61	29.22	0
6/17/2019 0:30	5.648	149.5	13.81	14.02	29.22	0
6/17/2019 0:45	6.453	190.5	7.463	13.77	29.22	0
6/17/2019 1:00	5.543	204.1	3.365	13.67	29.24	0
6/17/2019 1:15	4.875	201.1	6.11	13.65	29.24	0
6/17/2019 1:30	4.42	221.8	5.602	13.82	29.24	0
6/17/2019 1:45	3.822	236.4	8.04	13.83	29.24	0
6/17/2019 2:00	3.427	217.2	13.83	13.79	29.25	0
6/17/2019 2:15	2.642	153.9	14.56	13.29	29.25	0
6/17/2019 2:30	3.414	177.2	9.1	13.47	29.25	0
6/17/2019 2:45	5.42	185.5	10.18	13.32	29.25	0
6/17/2019 3:00	5.414	195.4	5.857	13.05	29.27	0
6/17/2019 3:15	4.802	193.5	8.27	12.94	29.27	0
6/17/2019 3:30	3.994	143.4	20.52	12.85	29.27	0
6/17/2019 3:45	4.183	139.7	9.17	12.78	29.27	0
6/17/2019 4:00	4.747	165.1	22.84	12.82	29.27	0
6/17/2019 4:15	4.147	188.1	6.74	12.88	29.27	0
6/17/2019 4:30	4.043	186.1	7.731	12.83	29.27	0
6/17/2019 4:45	4.347	197.2	5.936	12.89	29.27	0
6/17/2019 5:00	3.226	200.2	5.004	12.94	29.28	0
6/17/2019 5:15	2.762	195.2	5.715	12.99	29.28	0
6/17/2019 5:30	3.534	220.8	16.34	12.99	29.28	0
6/17/2019 5:45	4.192	227.2	8.84	12.89	29.28	0
6/17/2019 6:00	3.145	228.3	11.07	12.93	29.3	0
6/17/2019 6:15	2.409	214.5	12.16	12.88	29.3	0
6/17/2019 6:30	2.117	215.2	8.83	12.92	29.3	0
6/17/2019 6:45	2.293	230.7	9.4	13.09	29.3	0

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6/17/2019 7:00	2.603	222.9	17.31	13.18	29.31	0
6/17/2019 7:15	2.166	230.4	13.6	13.17	29.31	0
6/17/2019 7:30	1.646	209.7	23.9	13.3	29.31	0
6/17/2019 7:45	2.086	148.6	34.63	13.72	29.31	0
6/17/2019 8:00	2.577	153.6	13.5	13.82	29.32	0
6/17/2019 8:15	2.726	221.4	17.91	13.85	29.32	0
6/17/2019 8:30	2.946	238.4	16.06	13.81	29.32	0
6/17/2019 8:45	3.071	229.4	18.6	14.15	29.32	0
6/17/2019 9:00	4.045	239.8	14.62	14.04	29.31	0
6/17/2019 9:15	4.98	254.6	12.89	14.09	29.31	0
6/17/2019 9:30	4.58	270	13.49	14.03	29.31	0
6/17/2019 9:45	5.335	255	13.63	14.07	29.31	0
6/17/2019 10:00	4.764	244.9	15.9	14.21	29.34	0
6/17/2019 10:15	4.513	226.7	15.32	14.61	29.34	0
6/17/2019 10:30	4.315	222.6	25.24	14.91	29.34	0
6/17/2019 10:45	4.132	223	22.27	15.23	29.34	0
6/17/2019 11:00	4.668	244.1	16.09	15.33	29.35	0
6/17/2019 11:15	3.521	252.9	26.5	15.69	29.35	0
6/17/2019 11:30	4.107	253.3	19.29	16.09	29.35	0
6/17/2019 11:45	5.324	210.5	23.12	16.49	29.35	0
6/17/2019 12:00	4.545	243.7	28.57	16.7	29.34	0
6/17/2019 12:15	5.37	227	31.18	17.33	29.34	0
6/17/2019 12:30	5.064	250.7	56.59	17.97	29.34	0
6/17/2019 12:45	4.146	248.9	42.97	18.12	29.34	0
6/17/2019 13:00	4.866	217.9	24.38	18.54	29.33	0
6/17/2019 13:15	4.201	230.5	35.89	19.06	29.33	0
6/17/2019 13:30	5.143	264.1	20.39	19.58	29.33	0
6/17/2019 13:45	5.889	277.3	40.01	20.25	29.33	0
6/17/2019 14:00	5.332	268.6	39.23	20.44	29.34	0
6/17/2019 14:15	4.686	242.6	56.45	20.71	29.34	0
6/17/2019 14:30	3.271	286.2	57.26	20.99	29.34	0
6/17/2019 14:45	4.375	218	58.25	21.5	29.34	0
6/17/2019 15:00	5.837	290.5	23.27	21.52	29.33	0
6/17/2019 15:15	6.636	263.2	22.79	21.57	29.33	0
6/17/2019 15:30	7.425	251	29.13	21.87	29.33	0
6/17/2019 15:45	7.207	260.8	26.87	22.05	29.33	0
6/17/2019 16:00	5.373	282.8	44.04	22.35	29.3	0
6/17/2019 16:15	5.458	289.1	24.05	22.46	29.3	0
6/17/2019 16:30	6.494	264.2	25.8	22.67	29.3	0
6/17/2019 16:45	7.7	259.5	17.14	22.25	29.3	0
6/17/2019 17:00	8.36	254.6	10.53	22	29.32	0
6/17/2019 17:15	7.825	265.4	13.62	22.22	29.32	0
6/17/2019 17:30	8.01	263.9	12.55	22.11	29.32	0
6/17/2019 17:45	8.25	262	13.93	22.19	29.32	0
6/17/2019 18:00	7.248	244.2	11.61	22.33	29.31	0
6/17/2019 18:15	6.074	271.6	14.29	22.11	29.31	0
6/17/2019 18:30	5.032	252	17.46	22.27	29.31	0

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6/17/2019 18:45	6.15	260.6	12.09	22.02	29.31	0
6/17/2019 19:00	5.148	257.2	12.51	21.81	29.31	0
6/17/2019 19:15	4.914	252.8	11.35	21.76	29.31	0
6/17/2019 19:30	5.746	248	12.81	21.62	29.31	0
6/17/2019 19:45	5.641	245.6	6.673	21.15	29.31	0
6/17/2019 20:00	5.28	254.7	6.273	20.81	29.3	0
6/17/2019 20:15	5.328	261.8	4.865	20.62	29.3	0
6/17/2019 20:30	4.521	273.2	7.089	20.51	29.3	0
6/17/2019 20:45	2.356	284.3	19.83	20.26	29.3	0
6/17/2019 21:00	1.441	355	11.88	19.46	29.31	0
6/17/2019 21:15	3.241	304.3	57.88	19.39	29.31	0
6/17/2019 21:30	7.697	257.3	9.29	19.18	29.31	0
6/17/2019 21:45	5.896	278.3	12.55	18.57	29.31	0
6/17/2019 22:00	7.311	280.4	10.97	18.16	29.34	0
6/17/2019 22:15	6.272	257.7	13.05	17.88	29.34	0
6/17/2019 22:30	6.887	244.9	6.729	17.55	29.34	0
6/17/2019 22:45	7.407	232.3	7.343	17.2	29.34	0
6/17/2019 23:00	7.133	221.9	11.45	16.95	29.34	0
6/17/2019 23:15	8.41	216	8.7	16.53	29.34	0
6/17/2019 23:30	9.32	218.6	6.807	16.29	29.34	0
6/17/2019 23:45	8.6	218.6	9.42	16.04	29.34	0
6/18/2019 0:00	5.87	235.7	13.9	15.9	29.33	0
6/18/2019 0:15	4.045	268.3	12.78	15.81	29.33	0
6/18/2019 0:30	1.256	245.7	19.85	15.75	29.33	0
6/18/2019 0:45	0.628	172.2	23.8	15.64	29.33	0
6/18/2019 1:00	3.052	337.9	18.18	15.52	29.34	0
6/18/2019 1:15	4.364	307.7	6.313	15.46	29.34	0
6/18/2019 1:30	4.516	311.1	5.194	15.31	29.34	0
6/18/2019 1:45	4.125	319.3	4.092	15.17	29.34	0
6/18/2019 2:00	2.447	312.1	7.783	15.18	29.33	0
6/18/2019 2:15	2.466	300.9	8.37	15.18	29.33	0
6/18/2019 2:30	3.368	272.5	11.03	15.08	29.33	0
6/18/2019 2:45	4.412	264.6	4.35	15.01	29.33	0
6/18/2019 3:00	2.744	277.7	19.48	14.97	29.33	0
6/18/2019 3:15	1.121	308.8	5.518	14.44	29.33	0
6/18/2019 3:30	1.361	14.13	5.696	13.98	29.33	0
6/18/2019 3:45	0.253	21.63	0.037	13.83	29.33	0.01
6/18/2019 4:00	0	0	0	13.86	29.35	0.01
6/18/2019 4:15	3.315	260.9	24.72	13.72	29.35	0.02
6/18/2019 4:30	2.877	224.9	57.02	13.69	29.35	0.02
6/18/2019 4:45	5.084	6.604	19.01	13.27	29.35	0.04
6/18/2019 5:00	9.4	21.14	13.59	12.95	29.38	0.04
6/18/2019 5:15	7.6	44.97	17.04	12.75	29.38	0
6/18/2019 5:30	5.301	53.67	35.78	12.73	29.38	0
6/18/2019 5:45	5.609	5.441	9.91	12.98	29.38	0.01
6/18/2019 6:00	5.292	13.88	11.2	12.98	29.39	0
6/18/2019 6:15	4.578	7.561	9.03	13.03	29.39	0

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6/18/2019 6:30	2.219	20.42	10.91	13.09	29.39	0
6/18/2019 6:45	2.477	11.19	12.52	13.12	29.39	0
6/18/2019 7:00	4.421	14.37	13.73	13.1	29.4	0
6/18/2019 7:15	4.739	22.59	12.98	13.11	29.4	0
6/18/2019 7:30	7.538	18.91	10.35	13.08	29.4	0
6/18/2019 7:45	8.54	23.36	8.42	12.69	29.4	0
6/18/2019 8:00	6.725	15.94	8.55	12.9	29.41	0
6/18/2019 8:15	6.165	21.14	13.6	13.14	29.41	0
6/18/2019 8:30	5.996	20.26	10.88	13.24	29.41	0
6/18/2019 8:45	6.696	22.41	11.55	13.23	29.41	0
6/18/2019 9:00	9.59	17.04	8.91	13.21	29.41	0
6/18/2019 9:15	9.53	19.32	12.15	13.34	29.41	0
6/18/2019 9:30	11.3	19.76	8.67	13.05	29.41	0
6/18/2019 9:45	10.39	13.41	11.02	13.29	29.41	0
6/18/2019 10:00	10.82	20.16	10.48	13.57	29.41	0
6/18/2019 10:15	11.74	21.22	10.43	13.75	29.41	0
6/18/2019 10:30	11.19	21.01	9.12	14.22	29.41	0
6/18/2019 10:45	10.78	17.1	12.03	14.79	29.41	0
6/18/2019 11:00	11.38	20.42	9.6	14.49	29.41	0
6/18/2019 11:15	8.57	21.04	8.35	14.41	29.41	0
6/18/2019 11:30	5.486	22.83	17.81	14.47	29.41	0
6/18/2019 11:45	2.842	313.6	75.11	14.5	29.41	0
6/18/2019 12:00	4.252	251.8	13.77	13.96	29.42	0
6/18/2019 12:15	6.201	253.4	10.28	13.7	29.42	0.01
6/18/2019 12:30	5.887	244.4	9.26	13.61	29.42	0.01
6/18/2019 12:45	5.096	253.8	20.04	13.65	29.42	0.01
6/18/2019 13:00	4.84	261.8	11.58	13.73	29.41	0
6/18/2019 13:15	5.333	285.2	8.47	13.88	29.41	0
6/18/2019 13:30	4.244	301.5	10.34	13.79	29.41	0
6/18/2019 13:45	2.615	320.2	17.75	13.91	29.41	0
6/18/2019 14:00	2.215	0.183	19.02	14.14	29.41	0
6/18/2019 14:15	1.062	20.14	16.57	14.03	29.41	0
6/18/2019 14:30	3.004	52.86	21.16	13.82	29.41	0
6/18/2019 14:45	3.205	59.8	12.44	13.94	29.41	0
6/18/2019 15:00	2.971	57.28	5.985	14.11	29.41	0
6/18/2019 15:15	3.386	50.78	6.675	14.19	29.41	0
6/18/2019 15:30	2.66	47.37	3.97	14.4	29.41	0
6/18/2019 15:45	2.48	55.55	10.2	14.64	29.41	0
6/18/2019 16:00	1.783	68.43	1.136	14.63	29.4	0
6/18/2019 16:15	2.687	69.46	3.111	14.7	29.4	0
6/18/2019 16:30	2.931	65.01	11.87	14.72	29.4	0
6/18/2019 16:45	2.841	74.72	3.674	14.83	29.4	0
6/18/2019 17:00	2.508	98.2	9.53	14.89	29.37	0
6/18/2019 17:15	2.915	85.6	4.036	14.81	29.37	0
6/18/2019 17:30	2.922	85	4.938	14.78	29.37	0
6/18/2019 17:45	2.918	93.2	4.572	14.94	29.37	0
6/18/2019 18:00	2.494	83.7	3.833	15.07	29.38	0

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6/18/2019 18:15	3.222	74.23	13.03	14.96	29.38	0
6/18/2019 18:30	2.516	26.37	19.94	14.87	29.38	0
6/18/2019 18:45	1.189	2.982	1.175	14.86	29.38	0
6/18/2019 19:00	2.247	4.425	0.976	14.78	29.34	0
6/18/2019 19:15	3.208	25.35	17.13	14.61	29.34	0
6/18/2019 19:30	1.601	2.503	7.951	14.59	29.34	0
6/18/2019 19:45	2.102	2.274	2.458	14.65	29.34	0
6/18/2019 20:00	2.591	10.16	9.68	14.63	29.37	0
6/18/2019 20:15	3.483	26.79	13.84	14.47	29.37	0
6/18/2019 20:30	2.886	27.6	9.1	14.39	29.37	0
6/18/2019 20:45	3.301	20.54	11.31	14.3	29.37	0
6/18/2019 21:00	2.296	57.47	67.98	14.32	29.35	0
6/18/2019 21:15	7.167	217.7	18.92	14.74	29.35	0
6/18/2019 21:30	9.05	226.3	8.62	14.48	29.35	0
6/18/2019 21:45	8.76	217.9	9.7	14.18	29.35	0
6/18/2019 22:00	8.46	210.7	9.87	13.93	29.36	0
6/18/2019 22:15	9.42	205.1	9.95	13.6	29.36	0
6/18/2019 22:30	8.11	208.8	10.31	13.38	29.36	0
6/18/2019 22:45	7.792	214.4	12.18	13.2	29.36	0
6/18/2019 23:00	7.835	238	9.6	12.98	29.37	0
6/18/2019 23:15	7.868	231.2	7.496	12.73	29.37	0.01
6/18/2019 23:30	6.765	221.5	9.59	12.55	29.37	0
6/18/2019 23:45	7.476	212.5	9.73	12.24	29.37	0
6/19/2019 0:00	6.755	186.5	14.07	11.82	29.36	0
6/19/2019 0:15	6.092	182.2	15.45	11.73	29.36	0
6/19/2019 0:30	5.546	194.1	11.75	11.67	29.36	0
6/19/2019 0:45	6.805	192.7	10.6	11.59	29.36	0
6/19/2019 1:00	5.559	202.1	7.838	11.49	29.39	0
6/19/2019 1:15	2.602	116.7	65.44	11.2	29.39	0
6/19/2019 1:30	4.67	170.3	22.48	11.04	29.39	0
6/19/2019 1:45	5.133	166.1	10.57	10.94	29.39	0
6/19/2019 2:00	3.175	143.8	21.36	10.74	29.37	0
6/19/2019 2:15	1.744	82.7	18.03	10.67	29.37	0
6/19/2019 2:30	4.204	122.8	6.762	10.5	29.37	0
6/19/2019 2:45	3.256	104.6	10.49	10.52	29.37	0
6/19/2019 3:00	3.966	113.3	9.24	10.44	29.39	0
6/19/2019 3:15	4.997	124.4	10.87	10.34	29.39	0
6/19/2019 3:30	4.417	121.3	6.48	10.27	29.39	0
6/19/2019 3:45	5.288	125.3	5.435	10.19	29.39	0
6/19/2019 4:00	5.326	136.5	8.38	10.09	29.39	0
6/19/2019 4:15	4.058	129.9	10.12	10.09	29.39	0
6/19/2019 4:30	3.877	120.8	12.88	10.08	29.39	0
6/19/2019 4:45	3.657	96.9	11.67	9.94	29.39	0
6/19/2019 5:00	5.15	123.4	5.353	9.95	29.37	0
6/19/2019 5:15	4.083	102.3	12.66	9.96	29.37	0
6/19/2019 5:30	5.267	116	11.94	9.89	29.37	0
6/19/2019 5:45	4.97	110	12.33	9.95	29.37	0

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6/19/2019 6:00	5.192	124.3	8.24	10.09	29.39	0
6/19/2019 6:15	4.298	123.6	10.21	10.3	29.39	0
6/19/2019 6:30	3.742	108.4	10.76	10.43	29.39	0
6/19/2019 6:45	5.859	116	8.51	10.9	29.39	0
6/19/2019 7:00	5.865	142.2	12.48	10.97	29.39	0
6/19/2019 7:15	6.769	131.6	14.22	10.86	29.39	0
6/19/2019 7:30	6.049	147.4	18.06	10.96	29.39	0
6/19/2019 7:45	7.107	152	6.635	11.02	29.39	0
6/19/2019 8:00	7.174	156.2	13.83	11.36	29.39	0
6/19/2019 8:15	4.926	138	12.93	11.22	29.39	0
6/19/2019 8:30	5.409	149	15.38	11.09	29.39	0
6/19/2019 8:45	6.511	175.8	21.47	11.15	29.39	0
6/19/2019 9:00	6.969	183.5	10.92	11.33	29.38	0
6/19/2019 9:15	8.01	185.4	9.66	11.36	29.38	0
6/19/2019 9:30	6.116	184	12.37	11.56	29.38	0
6/19/2019 9:45	5.648	182.2	36.1	11.81	29.38	0
6/19/2019 10:00	4.718	191.8	16.9	11.61	29.39	0
6/19/2019 10:15	5.328	176.4	15.92	11.75	29.39	0
6/19/2019 10:30	2.723	154.8	33.61	11.97	29.39	0
6/19/2019 10:45	4.043	128.5	14.74	11.91	29.39	0
6/19/2019 11:00	3.656	99.6	40.94	11.82	29.39	0
6/19/2019 11:15	4.955	103.1	16.44	11.99	29.39	0
6/19/2019 11:30	6.2	118.5	16.95	12.19	29.39	0
6/19/2019 11:45	5.965	139.1	13.66	12.5	29.39	0
6/19/2019 12:00	5.741	136.2	18.4	12.7	29.37	0
6/19/2019 12:15	4.716	156.4	14.81	12.84	29.37	0
6/19/2019 12:30	3.377	147.7	50.86	13.5	29.37	0
6/19/2019 12:45	5.981	56.33	18.37	14.57	29.37	0
6/19/2019 13:00	5.51	75.75	47.79	14.49	29.35	0
6/19/2019 13:15	3.302	103.8	40.57	14.72	29.35	0
6/19/2019 13:30	4.241	108.7	19.06	15.03	29.35	0
6/19/2019 13:45	5.528	79.7	23.92	16.1	29.35	0
6/19/2019 14:00	3.096	133.4	81.1	15.96	29.33	0
6/19/2019 14:15	3.707	103.8	32.01	15.68	29.33	0
6/19/2019 14:30	3.651	133.8	14.22	15.59	29.33	0
6/19/2019 14:45	3.185	111	9.13	15.39	29.33	0
6/19/2019 15:00	2.966	105.7	11.26	15.67	29.32	0
6/19/2019 15:15	3.218	91.2	18.97	16.14	29.32	0
6/19/2019 15:30	5.275	256.4	40.76	16.38	29.32	0
6/19/2019 15:45	7.463	258.1	15.75	16.93	29.32	0
6/19/2019 16:00	9.28	259.3	15.41	17.24	29.29	0
6/19/2019 16:15	11.05	242.8	12.79	17.61	29.29	0
6/19/2019 16:30	13.56	253.9	10.47	17.29	29.29	0
6/19/2019 16:45	12.82	251.1	9.95	16.59	29.29	0
6/19/2019 17:00	13.34	251.1	8.11	16.17	29.27	0
6/19/2019 17:15	11.55	242.3	10.52	15.99	29.27	0
6/19/2019 17:30	12.06	244.6	9.61	15.88	29.27	0

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6/19/2019 17:45	10.77	238.6	11.72	15.73	29.27	0
6/19/2019 18:00	8.91	230.4	12.3	15.58	29.27	0
6/19/2019 18:15	9.3	230.9	15.76	15.43	29.27	0
6/19/2019 18:30	10.6	233.7	15.43	15.16	29.27	0
6/19/2019 18:45	4.967	222.2	48.35	14.84	29.27	0
6/19/2019 19:00	5.373	81.3	65	12.76	29.29	0
6/19/2019 19:15	9.04	33.37	63.29	12.22	29.29	0
6/19/2019 19:30	7.979	355	21.21	12.04	29.29	0
6/19/2019 19:45	10.26	16.53	21.14	11.12	29.29	0
6/19/2019 20:00	11.74	27.56	24.16	10.55	29.31	0
6/19/2019 20:15	11	20.54	14.13	10.03	29.31	0
6/19/2019 20:30	8.91	47.19	16.76	9.89	29.31	0
6/19/2019 20:45	13.44	43.91	9.05	9.84	29.31	0
6/19/2019 21:00	10.71	52.05	19.32	9.5	29.31	0.04
6/19/2019 21:15	7.651	39.61	10.96	9.12	29.31	0.07
6/19/2019 21:30	6.335	48.55	11.35	9.02	29.31	0.03
6/19/2019 21:45	5.131	79.95	27.67	9.08	29.31	0.05
6/19/2019 22:00	5.106	134	7.055	8.98	29.29	0.02
6/19/2019 22:15	4.46	129.5	6.277	9.15	29.29	0
6/19/2019 22:30	5.7	137.8	8.53	9.19	29.29	0
6/19/2019 22:45	7.026	159.2	6.151	9.09	29.29	0
6/19/2019 23:00	7.14	153.6	5.289	9.08	29.27	0
6/19/2019 23:15	7.443	160	8.66	9.17	29.27	0
6/19/2019 23:30	5.937	154.3	9.59	9.07	29.27	0
6/19/2019 23:45	5.36	129.3	16.89	9.03	29.27	0
6/20/2019 0:00	4.905	101.2	17.58	8.95	29.27	0
6/20/2019 0:15	5.026	99.3	17.69	8.87	29.27	0
6/20/2019 0:30	4.817	53.49	12.41	8.68	29.27	0
6/20/2019 0:45	6.232	46.55	8.89	8.62	29.27	0.02
6/20/2019 1:00	3.808	58.65	8.38	8.53	29.26	0.04
6/20/2019 1:15	3.137	113.9	23.35	8.49	29.26	0.02
6/20/2019 1:30	2.757	133.7	15.51	8.62	29.26	0.01
6/20/2019 1:45	3.771	174.3	17.18	8.53	29.26	0.03
6/20/2019 2:00	2.765	135.6	26.63	8.27	29.27	0.02
6/20/2019 2:15	2.445	76.77	9.05	8.2	29.27	0.01
6/20/2019 2:30	3.102	102.2	18.02	8.22	29.27	0.01
6/20/2019 2:45	3.514	114.8	7.033	8.29	29.27	0
6/20/2019 3:00	6.099	150.4	8.81	8.31	29.28	0.01
6/20/2019 3:15	2.526	96.6	30.27	8.41	29.28	0.01
6/20/2019 3:30	2.549	44.52	30.2	8.27	29.28	0
6/20/2019 3:45	2.715	106.3	21.73	8.31	29.28	0
6/20/2019 4:00	3.698	161.5	6.107	8.38	29.29	0
6/20/2019 4:15	3.015	159.4	5.131	8.41	29.29	0
6/20/2019 4:30	3.785	170.3	13.7	8.46	29.29	0
6/20/2019 4:45	4.393	182.3	13.51	8.52	29.29	0
6/20/2019 5:00	3.927	182.6	21.43	8.42	29.28	0
6/20/2019 5:15	3.073	160.3	2.53	8.32	29.28	0



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6/20/2019 5:30	2.863	162.4	9.53	8.39	29.28	0
6/20/2019 5:45	3.349	158	8.33	8.5	29.28	0
6/20/2019 6:00	2.51	147.3	9.2	8.57	29.28	0
6/20/2019 6:15	3.007	160.8	8.96	8.71	29.28	0.01
6/20/2019 6:30	3.31	143.3	11.94	8.74	29.28	0
6/20/2019 6:45	2.446	117.3	13.99	8.83	29.28	0
6/20/2019 7:00	2.652	99.7	16.16	9.19	29.28	0
6/20/2019 7:15	3.217	104.1	13.47	9.5	29.28	0
6/20/2019 7:30	3.637	132.4	16.69	9.69	29.28	0
6/20/2019 7:45	2.996	133.8	15.25	9.73	29.28	0
6/20/2019 8:00	3.697	173.3	19.03	9.94	29.3	0
6/20/2019 8:15	3.218	181.8	22.57	10.25	29.3	0
6/20/2019 8:30	2.609	191.1	20.26	10.54	29.3	0
6/20/2019 8:45	3.773	206.6	28.89	10.97	29.3	0
6/20/2019 9:00	2.636	203.9	21.19	11.25	29.28	0
6/20/2019 9:15	2.13	252.2	34.91	11.65	29.28	0
6/20/2019 9:30	3.59	260	14.11	11.49	29.28	0
6/20/2019 9:45	4.319	290.3	16.09	11.43	29.28	0
6/20/2019 10:00	2.852	308.7	24.84	11.91	29.29	0
6/20/2019 10:15	2.197	341.2	27.48	12.59	29.29	0
6/20/2019 10:30	3.232	319.1	13.6	12.34	29.29	0
6/20/2019 10:45	1.736	289.9	23.01	12.43	29.29	0
6/20/2019 11:00	1.967	295.8	24.97	13.28	29.28	0
6/20/2019 11:15	4.134	314.8	22.6	13.46	29.28	0
6/20/2019 11:30	2.505	298.8	24.93	13.35	29.28	0
6/20/2019 11:45	4.102	6.277	26.86	13.25	29.28	0
6/20/2019 12:00	4.608	47.99	12.31	13.11	29.29	0
6/20/2019 12:15	4.731	43.49	15.35	13.22	29.29	0
6/20/2019 12:30	2.606	50.2	18.88	13.3	29.29	0
6/20/2019 12:45	2.788	76.31	41.85	13.51	29.29	0
6/20/2019 13:00	3.173	93.3	23.86	13.79	29.3	0
6/20/2019 13:15	3.434	104.8	14.82	14.15	29.3	0
6/20/2019 13:30	3.38	107.4	23.58	14.46	29.3	0
6/20/2019 13:45	3.118	94.1	13.75	14.34	29.3	0
6/20/2019 14:00	4.883	104.1	18.47	14.75	29.27	0
6/20/2019 14:15	3.65	109.5	21.37	15.09	29.27	0
6/20/2019 14:30	4.173	97.7	15.71	15.23	29.27	0
6/20/2019 14:45	3.511	75.96	16.61	15.22	29.27	0
6/20/2019 15:00	4.343	156.8	24.87	15.42	29.26	0
6/20/2019 15:15	3.137	102.2	23.9	15.46	29.26	0
6/20/2019 15:30	3.647	67.78	15.49	16.1	29.26	0
6/20/2019 15:45	4.874	95.2	16.82	16.13	29.26	0
6/20/2019 16:00	2.703	73.11	34.06	16.15	29.26	0
6/20/2019 16:15	2.2	265.6	62.56	16.83	29.26	0
6/20/2019 16:30	3.968	233.3	21.45	17.13	29.26	0
6/20/2019 16:45	4.034	224	18.62	16.94	29.26	0
6/20/2019 17:00	4.462	214.5	23.57	16.67	29.25	0

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6/20/2019 17:15	5.225	234.4	13.24	16.74	29.25	0
6/20/2019 17:30	2.993	250	19.18	17.24	29.25	0
6/20/2019 17:45	5.819	226	20.56	16.72	29.25	0
6/20/2019 18:00	7.027	210.1	8.97	16.61	29.22	0
6/20/2019 18:15	11.41	228.5	8.55	16.5	29.22	0
6/20/2019 18:30	11.1	241.2	8.48	16.03	29.22	0
6/20/2019 18:45	9.71	245	7.944	15.65	29.22	0
6/20/2019 19:00	9.16	254.8	8.85	15.34	29.22	0
6/20/2019 19:15	8.81	254.4	7.61	15.07	29.22	0
6/20/2019 19:30	6.94	252.6	9.67	14.83	29.22	0
6/20/2019 19:45	9.41	245	10.18	14.64	29.22	0
6/20/2019 20:00	9.29	237.2	9.4	14.5	29.25	0
6/20/2019 20:15	8.56	239.3	7.776	14.29	29.25	0
6/20/2019 20:30	10.39	241.7	6.946	13.96	29.25	0
6/20/2019 20:45	10.77	244.7	8.74	13.59	29.25	0
6/20/2019 21:00	10.16	242.7	7.592	13.3	29.26	0
6/20/2019 21:15	9.42	237.9	8.5	13.17	29.26	0
6/20/2019 21:30	9.9	235.3	6.359	13.09	29.26	0
6/20/2019 21:45	8.41	235.7	7.215	12.98	29.26	0
6/20/2019 22:00	6.763	227.6	8.33	12.85	29.28	0
6/20/2019 22:15	6.673	203.8	12.03	12.7	29.28	0
6/20/2019 22:30	10.33	186.3	9.38	12.51	29.28	0
6/20/2019 22:45	9.93	186.2	7.412	12.29	29.28	0
6/20/2019 23:00	9.82	182.4	7.196	12.16	29.28	0
6/20/2019 23:15	9.9	177.1	10.7	12.01	29.28	0
6/20/2019 23:30	9.7	188.8	6.692	11.83	29.28	0
6/20/2019 23:45	8.55	180.1	6.682	11.71	29.28	0
6/21/2019 0:00	9.74	174.6	9.58	11.65	29.27	0
6/21/2019 0:15	8.5	180.4	8.98	11.58	29.27	0
6/21/2019 0:30	8.03	167.7	10.91	11.37	29.27	0
6/21/2019 0:45	9.46	170.2	9.72	11.16	29.27	0
6/21/2019 1:00	7.484	163.3	11.44	11.09	29.31	0
6/21/2019 1:15	8.41	167.6	12.17	11.06	29.31	0
6/21/2019 1:30	7.764	175.5	8.75	11.05	29.31	0
6/21/2019 1:45	7.011	177	9.04	11.01	29.31	0
6/21/2019 2:00	7.567	172.1	7.651	10.95	29.29	0
6/21/2019 2:15	7.185	173.5	8.45	10.91	29.29	0
6/21/2019 2:30	6.33	147.7	19.24	10.76	29.29	0
6/21/2019 2:45	5.429	141	8.52	10.56	29.29	0
6/21/2019 3:00	5.06	137.5	7.681	10.5	29.31	0
6/21/2019 3:15	5.608	134.5	7.42	10.5	29.31	0
6/21/2019 3:30	6.385	133.6	6.979	10.5	29.31	0
6/21/2019 3:45	6.737	138.5	7.922	10.57	29.31	0
6/21/2019 4:00	6.025	133.3	19.22	10.52	29.32	0
6/21/2019 4:15	3.053	109.1	34.81	10.52	29.32	0
6/21/2019 4:30	5.547	124.1	6.767	10.51	29.32	0
6/21/2019 4:45	5.934	124.4	7.496	10.52	29.32	0

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6/21/2019 5:00	6.121	128.8	6.81	10.57	29.31	0
6/21/2019 5:15	6.037	134	9.88	10.57	29.31	0
6/21/2019 5:30	5.422	137	8.22	10.64	29.31	0
6/21/2019 5:45	5.301	134.5	7.192	10.76	29.31	0
6/21/2019 6:00	4.987	119.2	10.94	10.76	29.34	0
6/21/2019 6:15	4.287	116.5	9.16	10.88	29.34	0
6/21/2019 6:30	5.19	119.3	6.086	10.96	29.34	0
6/21/2019 6:45	5.174	118.4	9.79	11.27	29.34	0
6/21/2019 7:00	5.174	129.2	11.96	11.65	29.34	0
6/21/2019 7:15	5.69	139.7	18.74	11.75	29.34	0
6/21/2019 7:30	5.157	137.4	18.85	11.97	29.34	0
6/21/2019 7:45	6.376	150.7	14.66	12.3	29.34	0
6/21/2019 8:00	6.589	173.9	17.33	12.24	29.36	0
6/21/2019 8:15	6.505	159.4	19.35	12.23	29.36	0
6/21/2019 8:30	7.012	154.4	19.81	12.54	29.36	0
6/21/2019 8:45	5.469	161.3	22.1	12.6	29.36	0
6/21/2019 9:00	5.638	170.4	25.8	13.02	29.37	0
6/21/2019 9:15	5.166	150.9	19.41	13.28	29.37	0
6/21/2019 9:30	6.726	211.1	14.47	13.46	29.37	0
6/21/2019 9:45	6.188	195.1	13.03	13.35	29.37	0
6/21/2019 10:00	5.271	187.4	22.57	13.97	29.34	0
6/21/2019 10:15	6.831	165.6	21.47	14.84	29.34	0
6/21/2019 10:30	5.679	159.1	14.9	14.15	29.34	0
6/21/2019 10:45	6.352	182.9	16.21	13.81	29.34	0
6/21/2019 11:00	3.365	169.9	25.68	13.97	29.37	0
6/21/2019 11:15	5.628	127.8	35.24	14.41	29.37	0
6/21/2019 11:30	5.22	116.3	22.55	15.09	29.37	0
6/21/2019 11:45	5.537	105.1	23.1	14.9	29.37	0
6/21/2019 12:00	4.272	169.6	21.48	15.14	29.38	0
6/21/2019 12:15	4.986	96	38.48	15.46	29.38	0
6/21/2019 12:30	3.484	121.4	39.13	15.45	29.38	0
6/21/2019 12:45	3.767	77.72	23.81	15.64	29.38	0
6/21/2019 13:00	2.202	77.31	87	16.23	29.37	0
6/21/2019 13:15	2.853	155.4	79.91	16.38	29.37	0
6/21/2019 13:30	3.073	166.6	68.4	16.74	29.37	0
6/21/2019 13:45	3.958	217.9	64.98	16.89	29.37	0
6/21/2019 14:00	4.774	181.8	34.4	16.9	29.38	0
6/21/2019 14:15	3.104	250.4	24.18	17.88	29.38	0
6/21/2019 14:30	3.45	224.6	38.98	17.5	29.38	0
6/21/2019 14:45	2.357	203.3	27.49	17.38	29.38	0
6/21/2019 15:00	3.425	155	31.75	17.72	29.38	0
6/21/2019 15:15	3.026	134.2	28.86	17.73	29.38	0
6/21/2019 15:30	2.744	203.8	28.18	18.55	29.38	0
6/21/2019 15:45	3.104	184.3	74.88	18.58	29.38	0
6/21/2019 16:00	2.403	102.2	41.23	18.52	29.36	0
6/21/2019 16:15	3.21	168.8	47.06	18.33	29.36	0
6/21/2019 16:30	5.276	195.8	30.27	18.5	29.36	0

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6/21/2019 16:45	4.375	215.9	37.64	18.96	29.36	0
6/21/2019 17:00	3.863	188.4	28.73	18.56	29.35	0
6/21/2019 17:15	2.939	219.8	69.19	19.03	29.35	0
6/21/2019 17:30	4.036	209.7	44.08	19.03	29.35	0
6/21/2019 17:45	2.765	197.7	37.49	19	29.35	0
6/21/2019 18:00	5.212	174.3	16.69	19.16	29.34	0
6/21/2019 18:15	4.068	146.3	11.25	18.3	29.34	0
6/21/2019 18:30	4.036	159.1	12.97	18.05	29.34	0
6/21/2019 18:45	3.133	139.1	17.16	18.07	29.34	0
6/21/2019 19:00	4.783	114.2	6.981	17.93	29.34	0
6/21/2019 19:15	4.52	117.9	6.877	17.62	29.34	0
6/21/2019 19:30	3.534	131.3	11.44	17.39	29.34	0
6/21/2019 19:45	3.339	197.3	37.01	17.44	29.34	0
6/21/2019 20:00	7.855	238.8	8.18	17.1	29.36	0
6/21/2019 20:15	7.829	235.4	7.777	16.44	29.36	0
6/21/2019 20:30	7.927	240.9	6.687	16.06	29.36	0
6/21/2019 20:45	6.81	239.6	7.018	15.74	29.36	0
6/21/2019 21:00	2.597	254.1	15.19	15.32	29.38	0
6/21/2019 21:15	1.037	318	15.51	14.93	29.38	0
6/21/2019 21:30	3.676	265.1	7.7	14.77	29.38	0
6/21/2019 21:45	5.36	241.4	12.47	14.48	29.38	0
6/21/2019 22:00	5.447	244.6	5.316	14.17	29.39	0
6/21/2019 22:15	4.667	248.4	6.574	13.79	29.39	0
6/21/2019 22:30	3.807	208.1	9.02	13.55	29.39	0
6/21/2019 22:45	4.693	218.8	7.76	13.4	29.39	0
6/21/2019 23:00	6.577	219.6	5.426	13.54	29.4	0
6/21/2019 23:15	6.988	216.3	4.986	13.36	29.4	0
6/21/2019 23:30	6.444	207.1	4.802	12.99	29.4	0
6/21/2019 23:45	5.749	191.4	11.99	12.79	29.4	0
6/22/2019 0:00	5.728	181.5	6.682	12.53	29.41	0
6/22/2019 0:15	5.711	176.4	5.601	12.37	29.41	0
6/22/2019 0:30	5.641	175.4	6.113	12.21	29.41	0
6/22/2019 0:45	5.278	186.6	5.972	12.13	29.41	0
6/22/2019 1:00	5.626	179.4	6.577	12.06	29.41	0
6/22/2019 1:15	5.262	178.9	7.413	12.05	29.41	0
6/22/2019 1:30	5.811	173.8	9.46	11.99	29.41	0
6/22/2019 1:45	6.216	173.9	6.581	11.81	29.41	0
6/22/2019 2:00	7.707	184	8.38	11.67	29.39	0
6/22/2019 2:15	8.13	184.5	5.776	11.53	29.39	0
6/22/2019 2:30	7.336	183.3	6.579	11.43	29.39	0
6/22/2019 2:45	6.541	182.6	7.442	11.32	29.39	0
6/22/2019 3:00	6.346	181	7.204	11.26	29.41	0
6/22/2019 3:15	5.723	181.7	9.47	11.24	29.41	0
6/22/2019 3:30	5.393	169.9	6.723	11.2	29.41	0
6/22/2019 3:45	4.661	173.2	11.88	11.18	29.41	0
6/22/2019 4:00	4.31	182.9	5.979	11.18	29.42	0
6/22/2019 4:15	3.962	177.2	7.009	11.2	29.42	0

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6/22/2019 4:30	2.243	134.6	17.84	11.1	29.42	0
6/22/2019 4:45	3.307	122	6.518	11.12	29.42	0
6/22/2019 5:00	3.539	123.3	4.628	11.2	29.41	0
6/22/2019 5:15	2.846	134.9	8.03	11.3	29.41	0
6/22/2019 5:30	3.476	140.8	8.42	11.35	29.41	0
6/22/2019 5:45	3.459	152.7	18.67	11.43	29.41	0
6/22/2019 6:00	3.427	176.8	14.66	11.54	29.43	0
6/22/2019 6:15	4.891	178.9	13.58	11.44	29.43	0
6/22/2019 6:30	3.001	129.2	19.31	11.39	29.43	0
6/22/2019 6:45	3.84	119	5.899	11.18	29.43	0
6/22/2019 7:00	3.693	125.1	11.43	11.35	29.4	0
6/22/2019 7:15	3.058	144.6	17.98	11.57	29.4	0
6/22/2019 7:30	3.419	176.4	24.13	11.84	29.4	0
6/22/2019 7:45	5.535	222	13.38	11.87	29.4	0
6/22/2019 8:00	5.546	205.8	10.81	11.94	29.41	0
6/22/2019 8:15	5.965	189.8	21.33	11.96	29.41	0
6/22/2019 8:30	6.5	205.8	8.69	12.21	29.41	0
6/22/2019 8:45	7.584	210	8.69	12.12	29.41	0
6/22/2019 9:00	7.195	220.6	8.08	12.24	29.43	0
6/22/2019 9:15	6.793	217.4	14.19	12.3	29.43	0
6/22/2019 9:30	7.578	234.3	8.16	12.19	29.43	0
6/22/2019 9:45	8.55	228	8.5	12.24	29.43	0
6/22/2019 10:00	6.359	230.5	10.46	12.46	29.44	0
6/22/2019 10:15	7.315	228.4	9.61	12.61	29.44	0
6/22/2019 10:30	8.1	204.9	11.1	12.82	29.44	0
6/22/2019 10:45	7.974	200.5	7.832	13.05	29.44	0
6/22/2019 11:00	6.036	214.9	21.95	13.19	29.43	0
6/22/2019 11:15	9.12	221	8.53	13.02	29.43	0
6/22/2019 11:30	7.938	191.1	16.73	13.59	29.43	0
6/22/2019 11:45	5.675	171.5	21.58	13.84	29.43	0
6/22/2019 12:00	5.186	196.6	24.57	13.96	29.42	0
6/22/2019 12:15	6.493	214.7	14.75	13.61	29.42	0
6/22/2019 12:30	7.13	201.8	16.56	13.71	29.42	0
6/22/2019 12:45	6.347	234.3	16.63	13.78	29.42	0
6/22/2019 13:00	6.608	200.8	16.32	14.04	29.4	0
6/22/2019 13:15	6.182	236.3	25.21	14.07	29.4	0
6/22/2019 13:30	7.088	251.3	19.88	13.88	29.4	0
6/22/2019 13:45	8.45	268.6	15.25	13.36	29.4	0
6/22/2019 14:00	6.208	270.3	14.36	13.41	29.42	0
6/22/2019 14:15	4.921	283.3	12.13	13.49	29.42	0
6/22/2019 14:30	2.328	264.1	19.66	13.75	29.42	0
6/22/2019 14:45	3.993	237.6	20.76	14.06	29.42	0
6/22/2019 15:00	4.853	231.9	19.5	14.11	29.39	0
6/22/2019 15:15	2.454	214.6	52.57	14.55	29.39	0
6/22/2019 15:30	3.394	150.5	29.17	15.53	29.39	0
6/22/2019 15:45	5.308	174	27.49	15.37	29.39	0
6/22/2019 16:00	6.135	194.7	18.17	15.25	29.37	0

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6/22/2019 16:15	4.859	193.6	25.03	15.27	29.37	0
6/22/2019 16:30	4.329	173.8	20.12	15.25	29.37	0
6/22/2019 16:45	4.481	178.2	12.7	15.22	29.37	0
6/22/2019 17:00	4.119	173.5	15.55	15.33	29.38	0
6/22/2019 17:15	3.172	125.2	16.77	15.39	29.38	0
6/22/2019 17:30	4.56	106.7	15.17	15.79	29.38	0
6/22/2019 17:45	4.087	114.2	15.1	15.71	29.38	0
6/22/2019 18:00	3.467	96.8	25.08	15.63	29.37	0
6/22/2019 18:15	2.733	75.37	14.64	15.48	29.37	0
6/22/2019 18:30	4.255	97.7	7.032	15.26	29.37	0
6/22/2019 18:45	3.086	83	8.94	15.16	29.37	0
6/22/2019 19:00	2.915	80.2	4.518	15.05	29.37	0
6/22/2019 19:15	3.326	82.9	3.96	14.97	29.37	0
6/22/2019 19:30	3.424	81.4	7.246	14.92	29.37	0
6/22/2019 19:45	2.834	68.45	6.277	14.89	29.37	0
6/22/2019 20:00	1.895	58.27	0.852	14.71	29.35	0
6/22/2019 20:15	2.651	38.15	6.934	14.49	29.35	0
6/22/2019 20:30	1.737	35.36	0.261	14.38	29.35	0
6/22/2019 20:45	1.025	35.2	0.19	14.34	29.35	0
6/22/2019 21:00	0.411	35.25	0.08	14.48	29.37	0
6/22/2019 21:15	1.593	24.86	10.49	14.6	29.37	0
6/22/2019 21:30	1.012	5.846	0.941	14.42	29.37	0
6/22/2019 21:45	0.356	1.141	0.124	14.31	29.37	0
6/22/2019 22:00	1.641	326.5	70.15	14.42	29.35	0
6/22/2019 22:15	3.365	235.9	10.68	14.24	29.35	0
6/22/2019 22:30	2.732	230.9	11.45	14.09	29.35	0
6/22/2019 22:45	3.075	247	7.567	14.18	29.35	0
6/22/2019 23:00	0.846	248	6.9	14.08	29.35	0
6/22/2019 23:15	0.2	253.7	7.148	13.78	29.35	0
6/22/2019 23:30	2.141	239	9.97	13.8	29.35	0
6/22/2019 23:45	0.709	220.7	5.884	13.75	29.35	0
6/23/2019 0:00	0.187	218	0.314	13.67	29.36	0
6/23/2019 0:15	1.171	303.4	25.47	13.6	29.36	0
6/23/2019 0:30	1.75	266.3	23.78	13.58	29.36	0
6/23/2019 0:45	3.376	267.4	18.15	13.59	29.36	0
6/23/2019 1:00	3.867	264.6	8.09	13.48	29.36	0
6/23/2019 1:15	4.871	268.1	9.58	13.38	29.36	0
6/23/2019 1:30	6.192	270	8.34	13.18	29.36	0
6/23/2019 1:45	5.828	264.7	8.1	13.1	29.36	0
6/23/2019 2:00	5.334	259.7	11.56	13	29.35	0
6/23/2019 2:15	5.952	252.9	9.36	12.97	29.35	0
6/23/2019 2:30	5.497	266.8	8.55	12.83	29.35	0
6/23/2019 2:45	6.454	260.4	7.022	12.69	29.35	0
6/23/2019 3:00	7.795	255.4	8.13	12.51	29.35	0
6/23/2019 3:15	7.146	241.3	10.96	12.4	29.35	0
6/23/2019 3:30	5.177	264.1	17.63	12.15	29.35	0
6/23/2019 3:45	7.842	251.9	8.98	11.97	29.35	0

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6/23/2019 4:00	6.454	263.8	8.33	11.79	29.33	0
6/23/2019 4:15	5.735	264.9	9.08	11.68	29.33	0
6/23/2019 4:30	6.926	265.8	6.935	11.56	29.33	0
6/23/2019 4:45	7.451	274.4	6.498	11.39	29.33	0
6/23/2019 5:00	5.572	274.6	8.72	11.15	29.34	0.01
6/23/2019 5:15	5.831	272.7	11.28	10.94	29.34	0
6/23/2019 5:30	6.279	269.8	8.57	10.75	29.34	0.01
6/23/2019 5:45	6.746	271	8.49	10.63	29.34	0
6/23/2019 6:00	4.458	278.4	7.823	10.6	29.35	0.01
6/23/2019 6:15	5.442	262.8	6.955	10.53	29.35	0
6/23/2019 6:30	4.627	256.3	9.16	10.54	29.35	0
6/23/2019 6:45	4.009	239.1	11.54	10.58	29.35	0.01
6/23/2019 7:00	4.117	212.1	16.89	10.55	29.36	0.01
6/23/2019 7:15	8.27	184.6	7.619	10.47	29.36	0
6/23/2019 7:30	8.31	185.9	7.79	10.51	29.36	0.01
6/23/2019 7:45	8.42	187.8	7.203	10.51	29.36	0
6/23/2019 8:00	7.56	189.4	10.21	10.54	29.35	0
6/23/2019 8:15	8.32	190.7	8.76	10.45	29.35	0
6/23/2019 8:30	8.81	187	7.474	10.39	29.35	0.01
6/23/2019 8:45	8.3	182.2	11.91	10.44	29.35	0
6/23/2019 9:00	7.978	183.4	11.12	10.46	29.38	0.01
6/23/2019 9:15	6.237	146.6	8.11	10.72	29.38	0
6/23/2019 9:30	5.546	139.5	9.56	10.85	29.38	0
6/23/2019 9:45	4.448	118.5	10.84	10.93	29.38	0
6/23/2019 10:00	4.487	116.4	13.23	11.08	29.35	0
6/23/2019 10:15	5.748	109.4	11.63	11.28	29.35	0
6/23/2019 10:30	5.434	109.9	11.47	11.64	29.35	0
6/23/2019 10:45	5.012	121	15.02	11.73	29.35	0
6/23/2019 11:00	6.35	145.1	11.97	12.08	29.38	0
6/23/2019 11:15	4.452	154	15.89	12.46	29.38	0
6/23/2019 11:30	5.123	140.2	11.49	12.47	29.38	0
6/23/2019 11:45	5.42	141.7	14.41	12.6	29.38	0
6/23/2019 12:00	4.477	133.8	11.69	13.06	29.37	0
6/23/2019 12:15	3.085	126.3	18.23	13.4	29.37	0
6/23/2019 12:30	2.447	91.8	16.63	13.22	29.37	0
6/23/2019 12:45	3.878	117.6	27.37	13.3	29.37	0
6/23/2019 13:00	5.293	122.9	6.803	13.45	29.35	0
6/23/2019 13:15	4.968	136.1	11.39	13.58	29.35	0
6/23/2019 13:30	1.629	124.3	20.28	14.38	29.35	0
6/23/2019 13:45	1.758	100.4	18.66	14.28	29.35	0
6/23/2019 14:00	2.172	1.209	14.24	14.45	29.36	0
6/23/2019 14:15	1.175	37.51	14.07	14.42	29.36	0
6/23/2019 14:30	2.737	79.15	15.27	14.43	29.36	0
6/23/2019 14:45	4.524	76.93	14.39	14.55	29.36	0
6/23/2019 15:00	3.811	93.4	17.06	14.75	29.35	0
6/23/2019 15:15	3.739	97.2	11.1	14.68	29.35	0
6/23/2019 15:30	2.059	97.8	11.09	14.84	29.35	0

Meteorological Data

6/23/2019 15:45	1.332	87.3	17.77	14.83	29.35	0
6/23/2019 16:00	2.674	93	4.646	14.53	29.32	0
6/23/2019 16:15	2.478	70.29	11.81	14.67	29.32	0
6/23/2019 16:30	2.859	73.08	9.78	14.82	29.32	0
6/23/2019 16:45	2.872	85.8	12.95	14.95	29.32	0
6/23/2019 17:00	2.746	65.06	15.37	15.01	29.31	0
6/23/2019 17:15	3.429	41.87	13.84	14.79	29.31	0
6/23/2019 17:30	3.59	26.8	2.561	14.7	29.31	0
6/23/2019 17:45	4.218	27.13	10.78	14.62	29.31	0
6/23/2019 18:00	3.304	24.22	12.46	14.37	29.31	0
6/23/2019 18:15	4.846	62.19	19.28	14.04	29.31	0
6/23/2019 18:30	3.161	6.8	24.4	13.92	29.31	0
6/23/2019 18:45	5.595	24.82	10.63	13.86	29.31	0
6/23/2019 19:00	9.63	20.63	10.57	12.99	29.29	0
6/23/2019 19:15	8.56	18.09	9.57	12.38	29.29	0
6/23/2019 19:30	10.26	16.41	10.08	11.88	29.29	0
6/23/2019 19:45	14.35	16.99	13.52	11.23	29.29	0
6/23/2019 20:00	13.96	16.51	10.39	10.98	29.3	0
6/23/2019 20:15	12.12	15.04	12.61	10.95	29.3	0
6/23/2019 20:30	12.93	17.97	11.17	10.92	29.3	0
6/23/2019 20:45	13.52	17.63	11.72	10.93	29.3	0
6/23/2019 21:00	12.89	19.48	9.8	10.97	29.32	0
6/23/2019 21:15	13.27	17.49	11.61	10.92	29.32	0
6/23/2019 21:30	11.99	18.05	13.69	10.86	29.32	0
6/23/2019 21:45	11.45	24.59	11.46	10.83	29.32	0
6/23/2019 22:00	8.5	22.06	14.62	10.89	29.31	0
6/23/2019 22:15	6.438	30.25	18.07	10.95	29.31	0
6/23/2019 22:30	5.207	29.17	15.18	10.94	29.31	0
6/23/2019 22:45	6.071	42.16	14.9	10.92	29.31	0
6/23/2019 23:00	7.272	26.85	12.61	10.98	29.31	0
6/23/2019 23:15	8.37	29.56	14.96	11.02	29.31	0
6/23/2019 23:30	10.3	31	13.13	10.97	29.31	0
6/23/2019 23:45	7.149	42.8	18.08	10.92	29.31	0
6/24/2019 0:00	6.821	51.83	13.19	10.84	29.3	0
6/24/2019 0:15	8.91	42.21	11.2	10.72	29.3	0
6/24/2019 0:30	5.546	36.8	14.6	10.59	29.3	0
6/24/2019 0:45	6.9	36.26	9.29	10.1	29.3	0.01
6/24/2019 1:00	4.93	36.57	11.32	9.76	29.29	0
6/24/2019 1:15	2.243	52.63	42.76	9.78	29.29	0
6/24/2019 1:30	4.876	189.3	10.83	9.77	29.29	0
6/24/2019 1:45	4.563	197.3	7.351	9.76	29.29	0
6/24/2019 2:00	4.449	188.2	7.333	9.78	29.3	0
6/24/2019 2:15	5.119	201.3	10.42	9.81	29.3	0
6/24/2019 2:30	4.172	207.6	6.805	9.82	29.3	0
6/24/2019 2:45	3.681	200.1	8.63	9.84	29.3	0
6/24/2019 3:00	3.41	201.6	8.38	9.97	29.3	0
6/24/2019 3:15	3.127	196.5	7.328	9.83	29.3	0.01



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6/24/2019 3:30	1.939	157	17.85	9.69	29.3	0
6/24/2019 3:45	1.571	111	16.9	9.6	29.3	0
6/24/2019 4:00	0.756	80.8	5.983	9.58	29.28	0
6/24/2019 4:15	0.02	60.24	0.004	9.51	29.28	0
6/24/2019 4:30	0.005	75.67	0	9.49	29.28	0
6/24/2019 4:45	0.246	232.2	5.771	9.66	29.28	0.01
6/24/2019 5:00	3.566	217.3	7.238	9.99	29.27	0
6/24/2019 5:15	1.328	168.3	52.62	9.98	29.27	0
6/24/2019 5:30	1.67	102.4	41.14	9.87	29.27	0
6/24/2019 5:45	0.396	63.1	0.407	9.85	29.27	0
6/24/2019 6:00	0.834	85.8	22.93	9.95	29.25	0
6/24/2019 6:15	0.455	88.4	27.07	10.4	29.25	0
6/24/2019 6:30	2.986	199.5	8.58	10.43	29.25	0
6/24/2019 6:45	2.021	223	16.18	10.57	29.25	0
6/24/2019 7:00	2.135	358.7	22.03	10.74	29.26	0
6/24/2019 7:15	1.648	53.35	19.03	10.61	29.26	0
6/24/2019 7:30	1.312	20.7	15.74	10.8	29.26	0
6/24/2019 7:45	2.134	32.67	26	10.76	29.26	0
6/24/2019 8:00	2.668	9.67	18.25	10.77	29.27	0
6/24/2019 8:15	3.448	11.99	11.44	10.52	29.27	0
6/24/2019 8:30	3.331	2.907	9.38	10.48	29.27	0
6/24/2019 8:45	3.845	14.31	14.49	10.37	29.27	0
6/24/2019 9:00	4.151	11.35	12.05	10.39	29.27	0
6/24/2019 9:15	3.389	5.725	10.87	10.62	29.27	0
6/24/2019 9:30	1.966	319.6	12.71	11.11	29.27	0
6/24/2019 9:45	1.234	313.6	14.85	12	29.27	0
6/24/2019 10:00	2.945	8.17	25.6	12.33	29.25	0
6/24/2019 10:15	3.255	11.73	25.76	12.4	29.25	0
6/24/2019 10:30	4.979	13.98	19.31	12.2	29.25	0
6/24/2019 10:45	3.1	334.5	20.49	12.71	29.25	0
6/24/2019 11:00	2.588	334.7	20.44	13.5	29.24	0
6/24/2019 11:15	2.489	278	53.28	14.29	29.24	0
6/24/2019 11:30	3.199	316.2	55.15	14.66	29.24	0
6/24/2019 11:45	2.678	311.4	44.52	14.72	29.24	0
6/24/2019 12:00	3.552	327.3	40.8	15.33	29.24	0
6/24/2019 12:15	4.153	354.3	37.09	15.68	29.24	0
6/24/2019 12:30	5.064	9.97	35.67	15.36	29.24	0
6/24/2019 12:45	5.01	7.289	46.34	16.19	29.24	0
6/24/2019 13:00	4.473	319.2	49.11	16.19	29.21	0
6/24/2019 13:15	6.634	325.3	22.72	16.29	29.21	0
6/24/2019 13:30	5.507	318.2	20.55	16.95	29.21	0
6/24/2019 13:45	7.091	317.5	13.42	16.51	29.21	0
6/24/2019 14:00	4.236	282.7	27.59	17.14	29.22	0
6/24/2019 14:15	4.184	350.6	54.01	17.59	29.22	0
6/24/2019 14:30	5.266	353	34.93	16.88	29.22	0
6/24/2019 14:45	3.52	320.2	10.9	17.28	29.22	0
6/24/2019 15:00	3.874	333.3	53.7	18.23	29.19	0

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6/24/2019 15:15	7.25	21.42	8.22	17.16	29.19	0
6/24/2019 15:30	4.467	16.39	12.46	16.85	29.19	0
6/24/2019 15:45	1.853	310.6	53.17	17.67	29.19	0
6/24/2019 16:00	5.628	13.65	16.73	17.87	29.18	0
6/24/2019 16:15	4.276	19.36	20.6	18.58	29.18	0
6/24/2019 16:30	8.74	23.24	7.666	18.46	29.18	0
6/24/2019 16:45	7.814	34.14	12.35	18.31	29.18	0
6/24/2019 17:00	6.727	39.58	12.13	18.31	29.16	0
6/24/2019 17:15	6.291	34.63	12.61	18.45	29.16	0
6/24/2019 17:30	6.326	354	36.99	18.64	29.16	0
6/24/2019 17:45	7.238	319.9	26.18	18.7	29.16	0
6/24/2019 18:00	7.852	337.5	10.59	18.48	29.14	0
6/24/2019 18:15	5.461	347.5	6.661	18.27	29.14	0
6/24/2019 18:30	6.055	343.7	7.355	17.85	29.14	0
6/24/2019 18:45	5.216	344.9	3.876	17.86	29.14	0
6/24/2019 19:00	5.025	347.1	6.166	17.82	29.12	0
6/24/2019 19:15	5.763	344.2	5.34	17.39	29.12	0
6/24/2019 19:30	5.619	340.9	3.791	16.97	29.12	0
6/24/2019 19:45	4.895	323	9.13	16.5	29.12	0
6/24/2019 20:00	4.48	320.6	11.96	15.92	29.13	0
6/24/2019 20:15	0.97	356.8	4.593	15.44	29.13	0
6/24/2019 20:30	2.953	350.9	9.85	15.35	29.13	0
6/24/2019 20:45	3.489	7.257	8.42	15.27	29.13	0
6/24/2019 21:00	1.828	20.93	12.79	14.76	29.1	0
6/24/2019 21:15	1.946	28.49	6.619	14.41	29.1	0
6/24/2019 21:30	2.021	37.37	6.433	13.9	29.1	0
6/24/2019 21:45	2.812	25.79	21.89	13.49	29.1	0
6/24/2019 22:00	3.229	39.44	11.52	12.81	29.11	0
6/24/2019 22:15	4.089	38.54	7.007	12.56	29.11	0
6/24/2019 22:30	5.94	33.1	8.79	12.72	29.11	0
6/24/2019 22:45	5.054	40.41	7.787	12.18	29.11	0
6/24/2019 23:00	4.807	40.21	6.715	12.19	29.12	0
6/24/2019 23:15	6.679	41.29	6.216	12.49	29.12	0
6/24/2019 23:30	7.332	42.39	5.348	12.29	29.12	0
6/24/2019 23:45	6.666	46.2	6.563	12.09	29.12	0
6/25/2019 0:00	6.046	50.17	9.36	11.83	29.08	0
6/25/2019 0:15	5.691	41.39	9.69	11.61	29.08	0
6/25/2019 0:30	5.08	33.2	6.819	11.04	29.08	0
6/25/2019 0:45	5.14	34.08	8.84	10.91	29.08	0
6/25/2019 1:00	4.391	37.44	7.315	10.32	29.09	0
6/25/2019 1:15	4.186	34.27	4.368	10.11	29.09	0
6/25/2019 1:30	3.707	50.69	10.15	9.76	29.09	0
6/25/2019 1:45	2.487	77.21	11.01	9.96	29.09	0
6/25/2019 2:00	3.343	72.27	5.994	10.34	29.09	0
6/25/2019 2:15	2.896	50.26	16.45	9.99	29.09	0
6/25/2019 2:30	4.229	16.59	6.108	9.72	29.09	0
6/25/2019 2:45	2.799	31.46	7.888	9.41	29.09	0

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6/25/2019 3:00	3.019	73.36	4.468	9.47	29.07	0
6/25/2019 3:15	2.728	91	10.91	9.1	29.07	0
6/25/2019 3:30	2.687	131	10.53	9.47	29.07	0
6/25/2019 3:45	0.94	83.7	13.42	9.93	29.07	0
6/25/2019 4:00	0.764	65.72	0.8	9.66	29.06	0
6/25/2019 4:15	0.403	67.07	0.026	9.35	29.06	0
6/25/2019 4:30	0.121	66.38	0.319	9.08	29.06	0
6/25/2019 4:45	0.995	15.85	16.79	9.12	29.06	0
6/25/2019 5:00	2.286	193.3	38.03	9.28	29.09	0
6/25/2019 5:15	1.651	131.3	11.46	9.64	29.09	0
6/25/2019 5:30	1.318	122.2	2.982	9.98	29.09	0
6/25/2019 5:45	2.104	121.6	14.16	10.45	29.09	0
6/25/2019 6:00	2.223	68.67	25.89	11.32	29.09	0
6/25/2019 6:15	1.5	88.4	19.36	11.55	29.09	0
6/25/2019 6:30	2.423	128.2	21.17	11.93	29.09	0
6/25/2019 6:45	2.486	134.2	19.18	12.36	29.09	0
6/25/2019 7:00	2.119	123.6	26.94	12.97	29.1	0
6/25/2019 7:15	3.299	190.4	23.55	12.83	29.1	0
6/25/2019 7:30	2.375	232.8	20.04	12.95	29.1	0
6/25/2019 7:45	1.885	218.4	30.13	13.69	29.1	0
6/25/2019 8:00	2.501	214.8	19.85	13.72	29.07	0
6/25/2019 8:15	1.802	243.7	23.78	14.28	29.07	0
6/25/2019 8:30	2.643	232.8	30.53	14.73	29.07	0
6/25/2019 8:45	4.217	205.1	15.22	14.6	29.07	0
6/25/2019 9:00	4.935	213.4	15.08	14.75	29.09	0
6/25/2019 9:15	3.458	223.8	21.99	15.39	29.09	0
6/25/2019 9:30	3.404	256.5	33.71	15.58	29.09	0
6/25/2019 9:45	3.73	262.5	23.57	15.84	29.09	0
6/25/2019 10:00	4.327	296	32.32	16.08	29.08	0
6/25/2019 10:15	4.651	248.8	21.99	16.3	29.08	0
6/25/2019 10:30	4.413	274.9	27.74	17.01	29.08	0
6/25/2019 10:45	3.572	331.7	65.87	17.67	29.08	0
6/25/2019 11:00	4.618	299.4	44.95	18.62	29.07	0
6/25/2019 11:15	3.657	298.2	48.19	18.61	29.07	0
6/25/2019 11:30	5.611	270.1	32.76	18.76	29.07	0
6/25/2019 11:45	4.188	223.6	38.07	18.91	29.07	0
6/25/2019 12:00	5.025	292	34.97	19.28	29.06	0
6/25/2019 12:15	4.373	310.7	62.11	19.46	29.06	0
6/25/2019 12:30	4.11	306.7	41.08	19.92	29.06	0
6/25/2019 12:45	5.878	301.4	31.34	20.03	29.06	0
6/25/2019 13:00	5.659	282.2	31.67	20.61	29.04	0
6/25/2019 13:15	7.026	282.3	27.62	20.71	29.04	0
6/25/2019 13:30	6.355	322.7	33.27	20.62	29.04	0
6/25/2019 13:45	6.07	284.2	34.93	21.1	29.04	0
6/25/2019 14:00	6.258	272.2	24.48	21.3	29.03	0
6/25/2019 14:15	4.931	238.8	43.25	21.43	29.03	0
6/25/2019 14:30	7.452	245	16.53	21.11	29.03	0

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6/25/2019 14:45	7.797	239	17.29	21.18	29.03	0
6/25/2019 15:00	8.54	272.9	22.47	21.14	29.04	0
6/25/2019 15:15	7.803	264.9	12.65	21.58	29.04	0
6/25/2019 15:30	8.08	283.7	17.91	21.5	29.04	0
6/25/2019 15:45	10.66	248.7	16.96	20.99	29.04	0
6/25/2019 16:00	12.09	244.7	12.76	20.67	29.03	0
6/25/2019 16:15	9.71	248.9	10.08	20.72	29.03	0
6/25/2019 16:30	9.24	251.8	9.81	20.31	29.03	0
6/25/2019 16:45	6.975	240.7	14.02	20.64	29.03	0
6/25/2019 17:00	5.876	265.7	24.36	20.46	29.02	0
6/25/2019 17:15	6.674	287.4	20.93	20.49	29.02	0
6/25/2019 17:30	6.736	257.3	23.2	20.8	29.02	0
6/25/2019 17:45	7.242	265.9	17.37	20.17	29.02	0
6/25/2019 18:00	9.58	275.5	7.881	19.4	29.04	0
6/25/2019 18:15	10.86	263.4	11.15	18.82	29.04	0
6/25/2019 18:30	11.07	259.9	6.375	18.46	29.04	0
6/25/2019 18:45	10.34	256.7	7.948	18.18	29.04	0
6/25/2019 19:00	8.59	259	7.596	18.14	29.06	0
6/25/2019 19:15	6.783	255.7	7.086	18.09	29.06	0
6/25/2019 19:30	4.763	242.8	8.79	18.05	29.06	0
6/25/2019 19:45	3.846	240.9	7.726	17.92	29.06	0
6/25/2019 20:00	4.677	232.5	13.33	17.66	29.06	0
6/25/2019 20:15	4.679	237.7	11.61	17.27	29.06	0
6/25/2019 20:30	5.07	222.6	6.264	17.11	29.06	0
6/25/2019 20:45	5.661	223	11.89	16.84	29.06	0
6/25/2019 21:00	4.432	207	5.444	16.38	29.07	0
6/25/2019 21:15	4.755	206.3	4.919	16.1	29.07	0
6/25/2019 21:30	4.16	191.1	18.37	15.64	29.07	0
6/25/2019 21:45	3.619	176.1	9.15	14.98	29.07	0
6/25/2019 22:00	4.509	197.8	8.25	15.12	29.11	0
6/25/2019 22:15	4.269	189.5	7.121	15.06	29.11	0
6/25/2019 22:30	2.275	163.3	13.18	14.74	29.11	0
6/25/2019 22:45	3.245	198.8	9.81	14.84	29.11	0
6/25/2019 23:00	2.184	149.3	14.69	14.6	29.09	0
6/25/2019 23:15	1.819	153.2	19.93	14.44	29.09	0
6/25/2019 23:30	3.291	179	6.433	13.78	29.09	0
6/25/2019 23:45	4.748	182	5.598	13.62	29.09	0
6/26/2019 0:00	4.735	177.7	5.46	13.27	29.09	0
6/26/2019 0:15	2.875	160.6	17.78	13.03	29.09	0
6/26/2019 0:30	3.872	166.2	10.36	13.02	29.09	0
6/26/2019 0:45	1.203	158.1	13.73	12.97	29.09	0
6/26/2019 1:00	2.156	153.6	7.375	12.75	29.11	0
6/26/2019 1:15	3.653	165.8	11.23	12.6	29.11	0
6/26/2019 1:30	3.709	165.4	9.13	12.67	29.11	0
6/26/2019 1:45	4.026	167.1	8.82	12.63	29.11	0
6/26/2019 2:00	3.64	184.8	2.928	12.49	29.1	0
6/26/2019 2:15	1.965	178.2	13.66	12.55	29.1	0

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6/26/2019 2:30	1.315	168	15.1	12.39	29.1	0
6/26/2019 2:45	3.138	209.7	6.894	12.44	29.1	0
6/26/2019 3:00	2.402	224.8	0.521	12.39	29.1	0
6/26/2019 3:15	1.153	217.9	3.64	12.57	29.1	0
6/26/2019 3:30	1.313	255.7	21.86	12.58	29.1	0
6/26/2019 3:45	2.635	269.7	8.56	12.34	29.1	0
6/26/2019 4:00	3.291	235.3	9.12	12.38	29.11	0
6/26/2019 4:15	4.262	225.9	7.374	12.26	29.11	0
6/26/2019 4:30	3.867	210.9	4.118	11.93	29.11	0
6/26/2019 4:45	2.937	195.7	8.21	11.67	29.11	0
6/26/2019 5:00	3.405	188.8	16.41	11.65	29.09	0
6/26/2019 5:15	2.345	158.5	9.02	11.64	29.09	0
6/26/2019 5:30	1.875	120.9	14.94	11.93	29.09	0
6/26/2019 5:45	1.499	115.2	52.55	12.22	29.09	0
6/26/2019 6:00	3.608	200.4	11.78	12.08	29.12	0
6/26/2019 6:15	2.81	181.5	10.81	12.16	29.12	0
6/26/2019 6:30	1.535	98.7	28.76	12.93	29.12	0
6/26/2019 6:45	2.502	116	21.98	13.45	29.12	0
6/26/2019 7:00	2.22	111.9	28.18	13.46	29.11	0
6/26/2019 7:15	2.602	180.8	31.1	13.39	29.11	0
6/26/2019 7:30	3.397	219	20.8	13.22	29.11	0
6/26/2019 7:45	2.789	267.1	31.26	13.68	29.11	0
6/26/2019 8:00	3.977	322.6	29.36	14.57	29.09	0
6/26/2019 8:15	3.283	346.4	22.42	15.16	29.09	0
6/26/2019 8:30	5.436	296.4	14.8	15.36	29.09	0
6/26/2019 8:45	4.445	271.8	20.26	15.84	29.09	0
6/26/2019 9:00	5.533	278.6	21.17	16.03	29.09	0
6/26/2019 9:15	5.113	286.6	20.38	16.24	29.09	0
6/26/2019 9:30	4.614	313.4	20.52	16.9	29.09	0
6/26/2019 9:45	5.966	314.9	26.32	17.32	29.09	0
6/26/2019 10:00	5.629	355.9	30.46	17.91	29.06	0
6/26/2019 10:15	6.214	11.53	29.32	18.72	29.06	0
6/26/2019 10:30	8.11	11.97	18.23	18.92	29.06	0
6/26/2019 10:45	10.48	22.62	12.51	18.86	29.06	0
6/26/2019 11:00	9.7	17.79	24.23	19.49	29.04	0
6/26/2019 11:15	8.47	8.99	31.64	19.49	29.04	0
6/26/2019 11:30	9.26	14.88	22.56	20.12	29.04	0
6/26/2019 11:45	10.46	20.5	12.31	20.02	29.04	0
6/26/2019 12:00	7.732	357.5	25.77	20.01	29.04	0
6/26/2019 12:15	8.32	323.8	18.88	20.05	29.04	0
6/26/2019 12:30	8.15	303.5	18.78	20.55	29.04	0
6/26/2019 12:45	7.888	319	23.87	20.62	29.04	0
6/26/2019 13:00	6.268	333	16.05	19.94	29.04	0
6/26/2019 13:15	6.55	356.2	15.02	19.31	29.04	0
6/26/2019 13:30	6.58	10.88	7.183	18.67	29.04	0
6/26/2019 13:45	3.513	11.61	18.39	18.46	29.04	0
6/26/2019 14:00	4.201	91.8	23.24	17.43	29.07	0

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6/26/2019 14:15	8.42	123.7	11.67	16.62	29.07	0
6/26/2019 14:30	9.26	128.1	12.78	15.21	29.07	0
6/26/2019 14:45	5.421	152.8	16.34	15.1	29.07	0
6/26/2019 15:00	5.59	118.8	13.07	15.06	29.06	0.01
6/26/2019 15:15	2.835	108.3	25.29	15.45	29.06	0
6/26/2019 15:30	6.273	158.5	26.56	15.42	29.06	0
6/26/2019 15:45	10.27	167.9	13.41	14.75	29.06	0
6/26/2019 16:00	12.94	128.8	15.84	14.43	29.08	0
6/26/2019 16:15	10.18	104.6	11.56	14.64	29.08	0
6/26/2019 16:30	9.11	93.5	13.56	14.99	29.08	0
6/26/2019 16:45	6.267	63.96	16.05	15.3	29.08	0
6/26/2019 17:00	4.286	221.7	78.45	15.99	29.05	0
6/26/2019 17:15	6.625	210.2	10.64	15.93	29.05	0
6/26/2019 17:30	2.223	82.2	63.99	15.95	29.05	0
6/26/2019 17:45	2.553	344.7	28.08	15.81	29.05	0
6/26/2019 18:00	2.73	246.2	40.34	16.02	29.04	0
6/26/2019 18:15	8.61	241.2	21	16.02	29.04	0
6/26/2019 18:30	9.73	274.9	6.884	15.58	29.04	0
6/26/2019 18:45	8.28	274.6	9.18	15.5	29.04	0
6/26/2019 19:00	4.933	251.5	9.39	15.58	29.07	0
6/26/2019 19:15	2.857	249.5	7.669	15.6	29.07	0
6/26/2019 19:30	3.16	264	10.79	15.37	29.07	0
6/26/2019 19:45	2.063	333.1	61.28	15.11	29.07	0
6/26/2019 20:00	1.355	35.9	6.54	14.67	29.07	0
6/26/2019 20:15	3.49	178.7	46.03	14.68	29.07	0
6/26/2019 20:30	4.025	162.9	9.96	14.32	29.07	0
6/26/2019 20:45	3.942	143.9	8.96	13.91	29.07	0
6/26/2019 21:00	4.983	114.5	30.84	13.56	29.11	0
6/26/2019 21:15	5.361	119.8	16.49	13.27	29.11	0
6/26/2019 21:30	5.629	132.7	10.44	13.31	29.11	0
6/26/2019 21:45	4.758	117.7	8.89	13.2	29.11	0
6/26/2019 22:00	4.021	124.7	12.55	13.25	29.12	0
6/26/2019 22:15	3.996	129.5	9.48	13.4	29.12	0
6/26/2019 22:30	4.173	135.9	6.201	13.45	29.12	0
6/26/2019 22:45	5.362	147.6	4.867	13.39	29.12	0
6/26/2019 23:00	5.914	149.9	8.97	13.46	29.12	0
6/26/2019 23:15	3.728	148.7	16.52	13.33	29.12	0
6/26/2019 23:30	4.671	168.1	11.38	13.33	29.12	0
6/26/2019 23:45	4.649	146.8	5.407	13.02	29.12	0
6/27/2019 0:00	5.793	151.4	6.278	13.1	29.12	0
6/27/2019 0:15	6.589	167.6	8.66	13.13	29.12	0
6/27/2019 0:30	6.741	176.9	9.17	13.18	29.12	0
6/27/2019 0:45	4.679	174.1	13.93	13.08	29.12	0
6/27/2019 1:00	4.499	177.7	11.87	12.97	29.12	0.01
6/27/2019 1:15	5.38	164.7	8.12	12.82	29.12	0
6/27/2019 1:30	6.382	195.5	12.45	13.08	29.12	0
6/27/2019 1:45	8.57	214.2	9.08	13.15	29.12	0

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6/27/2019 2:00	7.709	209.5	8.95	13.1	29.12	0
6/27/2019 2:15	6.09	194	14.21	13.01	29.12	0
6/27/2019 2:30	4.099	184.2	16.41	12.93	29.12	0
6/27/2019 2:45	8.75	196.3	9.22	12.93	29.12	0
6/27/2019 3:00	9.39	187.9	9.63	12.81	29.12	0
6/27/2019 3:15	8.22	201.3	9.56	12.67	29.12	0
6/27/2019 3:30	8.99	184.7	13.46	12.52	29.12	0
6/27/2019 3:45	8.95	170	8.85	12.28	29.12	0
6/27/2019 4:00	7.661	179	12.12	12.05	29.16	0
6/27/2019 4:15	7.627	175.3	9.56	11.93	29.16	0
6/27/2019 4:30	8.24	162.8	12.05	11.78	29.16	0
6/27/2019 4:45	7.542	170.9	10.54	11.49	29.16	0.01
6/27/2019 5:00	4.723	143.1	14.52	11.21	29.17	0.01
6/27/2019 5:15	3.916	139.8	11.02	11.16	29.17	0.01
6/27/2019 5:30	5.945	169.6	10.1	11.26	29.17	0
6/27/2019 5:45	5.994	171.5	7.18	11.33	29.17	0
6/27/2019 6:00	3.951	149.9	23.1	11.34	29.18	0
6/27/2019 6:15	4.888	143.9	15.08	11.52	29.18	0
6/27/2019 6:30	4.393	130.6	13.37	11.53	29.18	0
6/27/2019 6:45	4.868	124.5	22.34	11.69	29.18	0
6/27/2019 7:00	4.912	134.6	7.95	11.84	29.2	0
6/27/2019 7:15	4.465	130.6	6.754	11.9	29.2	0
6/27/2019 7:30	4.055	132.3	8.58	12.23	29.2	0
6/27/2019 7:45	5.396	138.4	12.64	12.38	29.2	0
6/27/2019 8:00	5.19	136.8	12.03	12.43	29.19	0
6/27/2019 8:15	5.575	133.1	11.44	12.71	29.19	0
6/27/2019 8:30	5.254	134.9	18.84	13.37	29.19	0
6/27/2019 8:45	3.339	154.2	34.57	14.14	29.19	0
6/27/2019 9:00	5.462	165	23.63	13.96	29.21	0
6/27/2019 9:15	6.036	162.4	18.65	14.02	29.21	0
6/27/2019 9:30	6.154	171.6	17.3	14.59	29.21	0
6/27/2019 9:45	5.387	185.5	24.23	14.92	29.21	0
6/27/2019 10:00	7.015	166.1	19.95	15.13	29.2	0
6/27/2019 10:15	6.793	185.7	12.36	14.71	29.2	0
6/27/2019 10:30	4.495	147.4	19.84	15.62	29.2	0
6/27/2019 10:45	3.814	174.4	29.29	15.29	29.2	0
6/27/2019 11:00	2.651	184.5	51.77	15.49	29.21	0
6/27/2019 11:15	2.593	228.5	35.09	15.78	29.21	0
6/27/2019 11:30	4.045	200.5	26.69	16.09	29.21	0
6/27/2019 11:45	4.755	185.1	30.31	16.49	29.21	0
6/27/2019 12:00	4.263	172.2	23.56	16.86	29.21	0
6/27/2019 12:15	3.387	196.6	35.65	16.85	29.21	0
6/27/2019 12:30	4.127	237.5	33.01	17.39	29.21	0
6/27/2019 12:45	4.696	234.2	23.77	17.61	29.21	0
6/27/2019 13:00	5.205	217.7	28.08	17.42	29.21	0
6/27/2019 13:15	5.528	228.6	20.05	16.97	29.21	0
6/27/2019 13:30	5.945	204.5	12.82	17.01	29.21	0

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6/27/2019 13:45	3.041	144.3	54.56	17.8	29.21	0
6/27/2019 14:00	3.069	109.8	33.13	18.25	29.23	0
6/27/2019 14:15	4.116	149.2	56.14	18.43	29.23	0
6/27/2019 14:30	3.407	113.1	46.49	17.89	29.23	0
6/27/2019 14:45	4.83	186.1	24.41	17.93	29.23	0
6/27/2019 15:00	4.923	169.7	22.29	18.03	29.23	0
6/27/2019 15:15	13.73	185.2	13.56	16.38	29.23	0
6/27/2019 15:30	17.85	223.5	12.1	13.3	29.23	0.04
6/27/2019 15:45	11.51	232.9	7.087	12.97	29.23	0.09
6/27/2019 16:00	5.135	301.5	72.89	12.9	29.25	0.03
6/27/2019 16:15	4.969	44.07	9.98	12.15	29.25	0
6/27/2019 16:30	1.682	53.5	11.09	12.97	29.25	0
6/27/2019 16:45	3.262	64.54	11.38	14.19	29.25	0
6/27/2019 17:00	3.107	61.66	15.71	14.61	29.25	0
6/27/2019 17:15	2.942	108.6	15.75	14.8	29.25	0
6/27/2019 17:30	3.357	168.9	40.39	15.05	29.25	0
6/27/2019 17:45	6.362	220.8	19.86	14.11	29.25	0.04
6/27/2019 18:00	1.708	317.2	33.62	14.05	29.26	0.01
6/27/2019 18:15	4.259	93.6	23.27	13.8	29.26	0
6/27/2019 18:30	5.542	95	9.28	14.09	29.26	0
6/27/2019 18:45	3.352	105.6	6.005	14.15	29.26	0
6/27/2019 19:00	4.423	257.5	29.21	14.3	29.27	0
6/27/2019 19:15	4.234	307	12.4	13.99	29.27	0
6/27/2019 19:30	1.614	337.2	6.898	13.81	29.27	0
6/27/2019 19:45	2.191	10.52	25.45	13.84	29.27	0
6/27/2019 20:00	3.348	117.8	37.16	13.33	29.28	0
6/27/2019 20:15	12.31	171.4	17.23	12.24	29.28	0.09
6/27/2019 20:30	7.761	142.3	16.5	11.43	29.28	0.02
6/27/2019 20:45	8.28	98.9	7.63	11	29.28	0.02
6/27/2019 21:00	6.251	93.8	12.25	11.08	29.3	0.02
6/27/2019 21:15	3.905	65.55	4.23	11.05	29.3	0
6/27/2019 21:30	2.145	94.8	52.2	11.33	29.3	0.01
6/27/2019 21:45	4.134	182.8	24.08	11.29	29.3	0.02
6/27/2019 22:00	5.686	182.3	18.38	11.56	29.29	0.11
6/27/2019 22:15	2.596	96.2	37.52	11.27	29.29	0.01
6/27/2019 22:30	2.339	51.69	5.494	10.87	29.29	0
6/27/2019 22:45	1.574	74.01	15.21	11.03	29.29	0
6/27/2019 23:00	1.723	196.4	26.85	11.47	29.31	0
6/27/2019 23:15	1.756	148.2	18.1	11.37	29.31	0
6/27/2019 23:30	3.025	117.8	10.22	11.34	29.31	0
6/27/2019 23:45	3.186	116.6	6.594	11.15	29.31	0
6/28/2019 0:00	3.902	124.3	7.084	11.38	29.29	0
6/28/2019 0:15	4.616	131	5.896	11.67	29.29	0
6/28/2019 0:30	3.23	149.3	9.18	11.65	29.29	0
6/28/2019 0:45	2.734	147.6	7.367	11.52	29.29	0
6/28/2019 1:00	1.896	114.9	16.24	11.6	29.31	0
6/28/2019 1:15	1.68	129.8	9.17	11.73	29.31	0.01



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6/28/2019 1:30	2.62	145.7	10.25	11.81	29.31	0
6/28/2019 1:45	3.459	154.9	18.05	11.8	29.31	0
6/28/2019 2:00	1.077	143.5	19.23	11.78	29.3	0
6/28/2019 2:15	0.815	127.4	6.769	11.79	29.3	0
6/28/2019 2:30	2.208	156.1	23.2	11.96	29.3	0
6/28/2019 2:45	4.334	172.7	7.383	11.95	29.3	0
6/28/2019 3:00	3.132	160.2	9.28	11.48	29.32	0
6/28/2019 3:15	3.786	162.2	6.586	11.36	29.32	0
6/28/2019 3:30	4.149	157.5	11.42	11.4	29.32	0
6/28/2019 3:45	3.328	140.8	10.51	11.25	29.32	0
6/28/2019 4:00	3.91	146.6	10.47	11.15	29.29	0
6/28/2019 4:15	3.395	123.8	9.79	11.3	29.29	0
6/28/2019 4:30	2.668	122.9	15.64	11.23	29.29	0
6/28/2019 4:45	1.884	149.3	16.42	11.5	29.29	0
6/28/2019 5:00	1.033	139	16.84	11.6	29.32	0
6/28/2019 5:15	1.977	125.5	17.1	11.61	29.32	0
6/28/2019 5:30	2.452	104.5	8.92	11.57	29.32	0
6/28/2019 5:45	2.767	115.5	9.17	11.96	29.32	0
6/28/2019 6:00	1.499	92.2	8.58	11.85	29.3	0
6/28/2019 6:15	2.718	110.4	3.231	12.14	29.3	0
6/28/2019 6:30	1.659	115.3	3.778	12.36	29.3	0
6/28/2019 6:45	1.134	126.1	17.34	12.69	29.3	0
6/28/2019 7:00	2.042	150.6	12.29	12.93	29.32	0
6/28/2019 7:15	2.268	186.2	21.68	13.12	29.32	0
6/28/2019 7:30	3.582	182.9	13.51	13.39	29.32	0
6/28/2019 7:45	3.406	177.8	14.63	13.57	29.32	0
6/28/2019 8:00	3.428	135.6	20.69	14.21	29.31	0
6/28/2019 8:15	3.077	199.7	24.47	13.96	29.31	0
6/28/2019 8:30	2.625	173.8	40.91	14.19	29.31	0
6/28/2019 8:45	3.545	169.1	23.84	14.53	29.31	0
6/28/2019 9:00	3.221	170.5	28.63	15.07	29.32	0
6/28/2019 9:15	4.916	164	40.32	15.87	29.32	0
6/28/2019 9:30	5.293	159.3	58.18	15.71	29.32	0
6/28/2019 9:45	3.533	239.8	31.86	15.21	29.32	0
6/28/2019 10:00	3.095	115.9	97.9	16.2	29.3	0
6/28/2019 10:15	2.351	275.8	56.48	15.95	29.3	0
6/28/2019 10:30	3.783	334.4	13.28	15.56	29.3	0
6/28/2019 10:45	1.83	250	76.76	16.22	29.3	0
6/28/2019 11:00	2.887	207.8	30.63	16.62	29.32	0
6/28/2019 11:15	4.025	245	44.36	16.78	29.32	0
6/28/2019 11:30	3.518	245.7	21.83	17.34	29.32	0
6/28/2019 11:45	4.83	257.2	28.57	17.58	29.32	0
6/28/2019 12:00	4.778	239.8	17.78	17.4	29.31	0
6/28/2019 12:15	6.882	203.5	21.96	17.99	29.31	0
6/28/2019 12:30	4.669	231.5	39.42	18.36	29.31	0
6/28/2019 12:45	6.664	213	25.06	18.36	29.31	0
6/28/2019 13:00	6.607	189.9	32.18	18.88	29.31	0

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6/28/2019 13:15	4.264	242.3	39.74	18.91	29.31	0
6/28/2019 13:30	6.445	266.7	22.92	18.72	29.31	0
6/28/2019 13:45	5.162	269.3	28.62	18.78	29.31	0
6/28/2019 14:00	8.52	235.8	20.43	19.25	29.29	0
6/28/2019 14:15	7.492	250.2	21.81	19.58	29.29	0
6/28/2019 14:30	4.076	214.2	53.33	19.7	29.29	0
6/28/2019 14:45	6.186	257.5	29.6	19.46	29.29	0
6/28/2019 15:00	6.579	255.7	34.53	19.87	29.29	0
6/28/2019 15:15	5.861	224.5	21.33	20.29	29.29	0
6/28/2019 15:30	5.955	211	20.5	19.96	29.29	0
6/28/2019 15:45	1.799	231.5	69.14	19.69	29.29	0
6/28/2019 16:00	5.146	247.7	36	20.21	29.27	0
6/28/2019 16:15	4.931	257.2	32.24	20.25	29.27	0
6/28/2019 16:30	3.768	230.6	39.68	20.62	29.27	0
6/28/2019 16:45	8.48	246.6	17.13	20.32	29.27	0
6/28/2019 17:00	9.18	254.6	21.85	20.02	29.28	0
6/28/2019 17:15	5.696	260.1	19.53	20.22	29.28	0
6/28/2019 17:30	7.362	261.6	18.51	20.14	29.28	0
6/28/2019 17:45	8.12	247.8	12.53	19.79	29.28	0
6/28/2019 18:00	7.718	254.7	14.28	19.43	29.29	0
6/28/2019 18:15	8.11	228.8	8.92	19.27	29.29	0
6/28/2019 18:30	6.529	236.1	9.06	19.12	29.29	0
6/28/2019 18:45	6.213	228.1	8.25	19.08	29.29	0
6/28/2019 19:00	5.574	227.6	5.489	18.76	29.29	0
6/28/2019 19:15	5.325	232.7	7.375	18.48	29.29	0
6/28/2019 19:30	4.83	238.6	4.6	18.25	29.29	0
6/28/2019 19:45	4.624	264.6	11.33	17.91	29.29	0
6/28/2019 20:00	4.199	280.9	4.381	17.47	29.27	0
6/28/2019 20:15	3.555	280.9	4.443	17.31	29.27	0
6/28/2019 20:30	1.629	319.7	19.7	17.05	29.27	0
6/28/2019 20:45	4.057	355.2	12.18	16.19	29.27	0
6/28/2019 21:00	7.965	2.93	11.64	15.69	29.29	0
6/28/2019 21:15	5.35	19.93	14.51	15.33	29.29	0
6/28/2019 21:30	4.934	27.98	10.62	15.18	29.29	0
6/28/2019 21:45	5.696	17.57	8.75	15.05	29.29	0
6/28/2019 22:00	4.918	13.29	12.06	14.64	29.3	0
6/28/2019 22:15	5.894	15.3	15.84	14.7	29.3	0
6/28/2019 22:30	7.669	21.32	9.56	14.1	29.3	0
6/28/2019 22:45	9.13	17.3	7.883	13.8	29.3	0
6/28/2019 23:00	7.777	15.36	8.98	13.72	29.31	0
6/28/2019 23:15	6.403	18.63	10.61	13.48	29.31	0
6/28/2019 23:30	8.05	19.85	7.577	13.38	29.31	0
6/28/2019 23:45	7.356	3.856	9.55	13.06	29.31	0
6/29/2019 0:00	6.189	13.87	7.759	13.07	29.31	0
6/29/2019 0:15	3.62	13.24	12.43	13.04	29.31	0
6/29/2019 0:30	2.775	12.54	9.66	12.93	29.31	0
6/29/2019 0:45	3.323	25.58	11.67	12.57	29.31	0

Meteorological Data

6/29/2019 1:00	3.832	26.97	10.3	12.48	29.3	0
6/29/2019 1:15	3.624	32.8	5.488	12.24	29.3	0
6/29/2019 1:30	3.893	32.37	6.35	12.12	29.3	0
6/29/2019 1:45	4.083	55.59	7.347	11.9	29.3	0
6/29/2019 2:00	1.842	49.91	1.067	12.6	29.32	0
6/29/2019 2:15	0.692	60.96	3.395	12.79	29.32	0
6/29/2019 2:30	1.049	63.52	1.204	12.56	29.32	0
6/29/2019 2:45	2.007	71.64	6.595	12.43	29.32	0
6/29/2019 3:00	2.444	75.31	8.37	12.21	29.29	0
6/29/2019 3:15	0.717	73.32	11.36	12.18	29.29	0
6/29/2019 3:30	0.731	98.9	30.47	12.5	29.29	0
6/29/2019 3:45	1.544	117.6	1.168	12.19	29.29	0
6/29/2019 4:00	1.709	113	3.717	12.37	29.31	0
6/29/2019 4:15	2.655	123.3	13.26	12.24	29.31	0
6/29/2019 4:30	2.923	146.5	5.874	11.96	29.31	0
6/29/2019 4:45	2.319	163.1	13.25	11.63	29.31	0
6/29/2019 5:00	2.723	151.4	5.904	11.78	29.31	0
6/29/2019 5:15	3.055	139.3	10.69	12.08	29.31	0
6/29/2019 5:30	3.261	130.7	11.93	11.96	29.31	0
6/29/2019 5:45	3.583	136.8	7.094	11.9	29.31	0
6/29/2019 6:00	3.452	143.5	15.07	12.04	29.33	0
6/29/2019 6:15	3.386	156.2	8.4	12.14	29.33	0
6/29/2019 6:30	2.421	143.9	12.74	12.64	29.33	0
6/29/2019 6:45	2.069	103.2	15.57	13.22	29.33	0
6/29/2019 7:00	1.369	79.98	12.29	13.83	29.33	0
6/29/2019 7:15	0.378	81.7	3.824	13.86	29.33	0
6/29/2019 7:30	0.73	184.3	36.29	14.15	29.33	0
6/29/2019 7:45	2.954	216.3	8.72	14.07	29.33	0
6/29/2019 8:00	2.542	216.8	14.29	14.42	29.35	0
6/29/2019 8:15	1.832	214.4	20.92	14.87	29.35	0
6/29/2019 8:30	1.447	248.9	33.65	15.39	29.35	0
6/29/2019 8:45	1.413	289.1	32.53	15.56	29.35	0
6/29/2019 9:00	2.47	1.365	42.45	16.04	29.34	0
6/29/2019 9:15	4.012	13.32	11.36	15.63	29.34	0
6/29/2019 9:30	4.149	15.46	6.649	15.4	29.34	0
6/29/2019 9:45	3.317	20.23	14.92	15.76	29.34	0
6/29/2019 10:00	2.754	12.72	18.74	16.09	29.35	0
6/29/2019 10:15	2.661	0.904	19.25	16.3	29.35	0
6/29/2019 10:30	2.972	17.93	19.7	16.36	29.35	0
6/29/2019 10:45	2.92	322.7	26.09	16.87	29.35	0
6/29/2019 11:00	2.95	293.2	19.24	16.91	29.35	0
6/29/2019 11:15	2.786	308.3	27.57	17.54	29.35	0
6/29/2019 11:30	2.13	265.4	32.54	18.12	29.35	0
6/29/2019 11:45	1.434	297.3	54.11	18.57	29.35	0
6/29/2019 12:00	2.284	307.3	35.16	18.87	29.35	0
6/29/2019 12:15	3.342	99.7	69.47	19.48	29.35	0
6/29/2019 12:30	3.487	116.3	41.87	19.81	29.35	0

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6/29/2019 12:45	3.418	197	33.32	20.08	29.35	0
6/29/2019 13:00	2.959	351.6	31.47	20.2	29.31	0
6/29/2019 13:15	3.134	304.8	41.6	20.33	29.31	0
6/29/2019 13:30	1.978	143.1	88.8	21.15	29.31	0
6/29/2019 13:45	3.553	31.55	69.93	21.38	29.31	0
6/29/2019 14:00	5.684	330.7	38.32	21.6	29.3	0
6/29/2019 14:15	6.19	273.7	15.18	22.06	29.3	0
6/29/2019 14:30	5.06	274.1	23.13	22.04	29.3	0
6/29/2019 14:45	6.968	272.3	15.77	21.69	29.3	0
6/29/2019 15:00	6.331	282	22.93	22.55	29.3	0
6/29/2019 15:15	4.548	261	55.73	22.46	29.3	0
6/29/2019 15:30	6.922	303.2	40.58	22.83	29.3	0
6/29/2019 15:45	7.82	294.7	30.15	22.71	29.3	0
6/29/2019 16:00	6.037	264.8	20.74	22.64	29.29	0
6/29/2019 16:15	8.12	298.4	19.55	22.81	29.29	0
6/29/2019 16:30	7.865	314	11.79	22.6	29.29	0
6/29/2019 16:45	7.341	327.3	16.3	22.76	29.29	0
6/29/2019 17:00	8.35	310.7	12.47	22.63	29.28	0
6/29/2019 17:15	9.46	298.3	15.84	22.69	29.28	0
6/29/2019 17:30	9.95	298.1	11.89	22.34	29.28	0
6/29/2019 17:45	9.18	308.5	10.06	22.22	29.28	0
6/29/2019 18:00	10.53	315.6	14.84	21.84	29.27	0
6/29/2019 18:15	9.75	303.7	10.85	21.62	29.27	0
6/29/2019 18:30	9.94	303.7	8.97	21.4	29.27	0
6/29/2019 18:45	10.24	301.4	7.227	21.08	29.27	0
6/29/2019 19:00	9.35	301.1	6.374	20.81	29.29	0
6/29/2019 19:15	8.83	297.3	7.103	20.37	29.29	0
6/29/2019 19:30	9.4	290.4	7.27	19.95	29.29	0
6/29/2019 19:45	9.22	289.3	4.937	19.47	29.29	0
6/29/2019 20:00	9.94	290.6	5.878	19.01	29.28	0
6/29/2019 20:15	8.96	283.5	6.545	18.57	29.28	0
6/29/2019 20:30	7.051	286.9	13.53	18.28	29.28	0
6/29/2019 20:45	4.974	304.1	27.27	18	29.28	0
6/29/2019 21:00	3.729	339.6	32.37	17.64	29.31	0
6/29/2019 21:15	4.336	339.2	32.52	17.63	29.31	0
6/29/2019 21:30	1.273	359.7	20.31	17.08	29.31	0
6/29/2019 21:45	1.76	18.41	32.17	17.05	29.31	0
6/29/2019 22:00	3.248	51.36	22.79	16.7	29.31	0
6/29/2019 22:15	1.869	37.94	36.26	16.27	29.31	0
6/29/2019 22:30	1.731	17.83	42.16	16.43	29.31	0
6/29/2019 22:45	3.549	1.618	40.22	16.51	29.31	0
6/29/2019 23:00	2.843	17.81	54.14	16.13	29.32	0
6/29/2019 23:15	4.215	28.16	28.96	16.02	29.32	0
6/29/2019 23:30	3.003	38.31	35.6	15.87	29.32	0
6/29/2019 23:45	3.139	17.64	29.74	15.65	29.32	0
6/30/2019 0:00	3.27	6.235	38.61	15.59	29.31	0
6/30/2019 0:15	4.442	359.5	26.81	15.5	29.31	0

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6/30/2019 0:30	5.371	15.6	21.35	15.22	29.31	0
6/30/2019 0:45	8.62	23.57	9.23	14.83	29.31	0
6/30/2019 1:00	9.33	23.47	14.14	14.61	29.33	0
6/30/2019 1:15	5.194	38	13.28	14.07	29.33	0
6/30/2019 1:30	5.523	20.38	11.95	14.01	29.33	0
6/30/2019 1:45	5.596	17.14	7.312	13.49	29.33	0
6/30/2019 2:00	4.905	14.39	6.219	13.28	29.33	0
6/30/2019 2:15	4.257	22.84	7.444	13.15	29.33	0
6/30/2019 2:30	3.131	21.09	10.19	13.13	29.33	0
6/30/2019 2:45	3.497	42.52	16.48	12.84	29.33	0
6/30/2019 3:00	3.68	58.9	10.88	12.51	29.3	0
6/30/2019 3:15	2.74	40.43	9.01	12.66	29.3	0
6/30/2019 3:30	3.379	38.38	8.2	12.24	29.3	0
6/30/2019 3:45	3.418	31.44	9.74	11.87	29.3	0
6/30/2019 4:00	2.539	57.64	3.637	11.9	29.31	0
6/30/2019 4:15	1.47	73.74	11.98	12.4	29.31	0
6/30/2019 4:30	3.302	167.1	23.36	12.29	29.31	0
6/30/2019 4:45	3.661	158.7	5.976	12.48	29.31	0
6/30/2019 5:00	3.501	146.7	8.16	12.44	29.33	0
6/30/2019 5:15	2.952	119.3	5.192	12.47	29.33	0
6/30/2019 5:30	2.926	128.5	2.682	12.84	29.33	0
6/30/2019 5:45	2.213	152.6	9.04	13.05	29.33	0
6/30/2019 6:00	1.316	155.2	10.66	13.55	29.35	0
6/30/2019 6:15	0.974	109.2	26.38	14.4	29.35	0
6/30/2019 6:30	1.455	129.6	43.55	14.45	29.35	0
6/30/2019 6:45	1.563	175.4	21.51	14.48	29.35	0
6/30/2019 7:00	2.481	173.8	12.69	14.46	29.34	0
6/30/2019 7:15	3.618	203.5	10.49	14.47	29.34	0
6/30/2019 7:30	3.28	221.6	14	14.39	29.34	0
6/30/2019 7:45	2.663	252.7	19	15.1	29.34	0
6/30/2019 8:00	2.692	216.9	13.7	15.55	29.36	0
6/30/2019 8:15	2.827	225.2	19.65	15.66	29.36	0
6/30/2019 8:30	3.198	230.5	17.78	15.84	29.36	0
6/30/2019 8:45	2.518	216.3	19.76	16.8	29.36	0
6/30/2019 9:00	2.484	234.1	26.39	17.02	29.33	0
6/30/2019 9:15	1.56	281	60.8	18.06	29.33	0
6/30/2019 9:30	4.256	299.5	16.3	18.31	29.33	0
6/30/2019 9:45	3.569	353.3	37.12	18.62	29.33	0
6/30/2019 10:00	4.709	1.511	19.38	19.34	29.31	0
6/30/2019 10:15	5.791	11.83	19.43	19.98	29.31	0
6/30/2019 10:30	6.201	10.55	34.95	20.76	29.31	0
6/30/2019 10:45	7.567	352.9	29.05	21.02	29.31	0
6/30/2019 11:00	8.9	323.1	27.51	21.28	29.33	0
6/30/2019 11:15	11.17	315.5	16.62	21.66	29.33	0
6/30/2019 11:30	10.43	316.5	11.08	21.72	29.33	0
6/30/2019 11:45	11.34	310.4	10.42	22.02	29.33	0
6/30/2019 12:00	8.98	323.3	14.59	22.01	29.31	0

Meteorological Data

6/30/2019 12:15	8.06	324.5	26.39	22.62	29.31	0
6/30/2019 12:30	9.23	1.297	25.62	22.91	29.31	0
6/30/2019 12:45	7.671	353.6	20.77	23.37	29.31	0
6/30/2019 13:00	8.83	30.12	20.51	23.61	29.27	0
6/30/2019 13:15	8.38	14.03	25.28	23.76	29.27	0
6/30/2019 13:30	5.212	331.9	63.23	23.67	29.27	0
6/30/2019 13:45	7.093	356.4	28.74	24.08	29.27	0
6/30/2019 14:00	6.869	315.2	46.51	24.06	29.26	0
6/30/2019 14:15	8.1	19.64	27.39	24.35	29.26	0
6/30/2019 14:30	8.67	11.16	20.88	24.35	29.26	0
6/30/2019 14:45	8.71	13.94	15.83	24.36	29.26	0
6/30/2019 15:00	8.97	358.8	20.62	24.78	29.25	0
6/30/2019 15:15	7.889	319.3	18.84	24.76	29.25	0
6/30/2019 15:30	9.02	309.6	12.31	24.96	29.25	0
6/30/2019 15:45	9.69	321.2	11.63	24.77	29.25	0
6/30/2019 16:00	8.91	328	17.47	24.96	29.25	0
6/30/2019 16:15	8.03	358.5	20.11	24.82	29.25	0
6/30/2019 16:30	9.59	345.8	24.44	24.94	29.25	0
6/30/2019 16:45	12.43	315.4	9.21	24.76	29.25	0
6/30/2019 17:00	11.46	317.5	9.86	24.7	29.25	0
6/30/2019 17:15	10.62	326.8	10.95	24.5	29.25	0
6/30/2019 17:30	12.5	323.6	9.67	24.38	29.25	0
6/30/2019 17:45	12.35	315.7	10.29	24.29	29.25	0
6/30/2019 18:00	10.09	314.3	6.43	24.18	29.25	0
6/30/2019 18:15	11.04	317	6.429	23.94	29.25	0
6/30/2019 18:30	11.11	322.1	5.418	23.64	29.25	0
6/30/2019 18:45	9.63	314.7	7.042	23.55	29.25	0
6/30/2019 19:00	9.48	319.7	5.232	23.26	29.22	0
6/30/2019 19:15	9.53	322.6	5.755	22.94	29.22	0
6/30/2019 19:30	7.144	321.3	6.181	22.55	29.22	0
6/30/2019 19:45	7.502	309.1	7.01	22.02	29.22	0
6/30/2019 20:00	7.927	307.8	5.903	21.52	29.23	0
6/30/2019 20:15	7.955	305.6	5.688	21.02	29.23	0
6/30/2019 20:30	5.079	336.1	29.6	20.69	29.23	0
6/30/2019 20:45	3.383	312.4	31.14	20.51	29.23	0
6/30/2019 21:00	2.429	21.06	45.72	20.07	29.24	0
6/30/2019 21:15	3.712	45.14	19.44	19.84	29.24	0
6/30/2019 21:30	4.48	3.772	25.01	20.04	29.24	0
6/30/2019 21:45	1.349	62.41	77.75	19.91	29.24	0
6/30/2019 22:00	3.752	28.79	26.9	19.6	29.25	0
6/30/2019 22:15	8.45	33.57	10.36	18.97	29.25	0
6/30/2019 22:30	11.42	30.15	6.551	18.83	29.25	0
6/30/2019 22:45	9.66	24.33	8.61	18.6	29.25	0
6/30/2019 23:00	8.67	33.73	11.44	18.22	29.24	0
6/30/2019 23:15	6.031	33.45	10.8	17.76	29.24	0
6/30/2019 23:30	6.058	29.9	9.95	17.34	29.24	0
6/30/2019 23:45	6.662	40	7.881	16.97	29.24	0

# **APPENDIX D**

## **Area 5 Top Deck Report**

# CEDAR HILLS REGIONAL LANDFILL AREA 5 TOP DECK MONITORING REPORT

Second Quarter 2019



Department of Natural Resources and Parks  
Solid Waste Division

August 2019  
Printed on recycled paper



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**AREA 5 TOP DECK MONITORING  
QUARTERLY REPORT**

**SECOND QUARTER 2019**

**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 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.

**TABLE 1  
CEDAR HILLS REGIONAL LANDFILL LEACHATE PRODUCTION for SECOND QUARTER of 2019**

Time	Leachate	Surface Area of Refuse	Refuse In Place	Precipitation	Flow			
					(year)	(MG/yr)	(Acres)	(lbs)
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	85.34	353.12*	65,854,584,304	22.03	241,665	10,970	0.0013	0.00006

2019: Precipitation, leachate and refuse in place through 2nd Quarter of 2019

\* The 353.12 acre value was a plan view area calculated by AUTOCAD, using the area inquiry feature of a closed poly line.

### **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 second quarter of 2019 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 second quarter of 2019, KCSWD staff performed monthly Landfill Facility Site Inspections. These inspections are also included in Appendix A. During the second quarter, erosion control measures continued to be implemented and/or maintained to mitigate runoff effects from on-going construction activities at the landfill.

No inspections were performed by Public Health – Seattle & King County (PHSKC) this quarter.

#### **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 second quarter of 2019 surface emission monitoring was conducted from June 17 through June 28, 2019.

There were a surface emission limit exceedance of methane (1,500 parts per million(ppm)) on June 24, 2019. The regulatory limit is 500 ppm. The exceedance occurred near horizontal well riser CHCNFC01, which is in Area 2/3 of the landfill. The well was found under positive pressure during the June 24 surface monitoring event. This was likely due to warming weather that resulted in increased microbial activity in well, which then changed the pressure from negative to positive. Methane then leaked out of the well due to a missing cap on the flow measurement port and was detected during routine monitoring. As a corrective action, the valve on the well was fully opened to place the well under vacuum, and the leak was sealed by replacing the missing cap on the flow measurement port.

Subsequent monitoring events (July 4, 2019) showed that these actions were effective in bringing the well into compliance.

The results from the second quarter of 2019 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 second quarter of 2019 by KCSWD staff, or by PHSKC personnel.

### **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 preparation 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. Historical data can be viewed in table 2.

**TABLE 2**  
**CEDAR HILLS REGIONAL LANDFILL AREA 5 SURFACE SURVEY DATA for 2nd QUARTER of 2019**

A5SM-1 <sup>a</sup>		A5SM-2 <sup>c</sup>		A5SM-3 <sup>b</sup>		PMX20074 <sup>c</sup>		PMX2015 <sup>d</sup>	
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

<sup>a</sup> A5SM-1 was destroyed by filling Area 7 during Lift 4.

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

<sup>c</sup> PMX20074 was destroyed during Phase 3 of Area 6.

<sup>d</sup> PMX2015 NEW 04/06/2015; replaces PMX20074

<sup>e</sup> A5SM-2 Destroyed by Area 8 excavation stockpile spring of 2019

#### **IV. STORMWATER SAMPLING**

##### **Collection of Samples**

No samples were collected from the Area 5 Top Deck stormwater monitoring stations SW-TD1, SW-TD2, SW-TD4, and SW-TD6 during the second quarter of 2019. This was due to multiple factors including low precipitation throughout the latter half of second quarter. Therefore, no comparisons can be made with the surface water or leachate sample data, nor can a review be performed for evaluating the runoff from Area 5 for the second quarter of 2019.

#### **V. CONCLUSION**

Stormwater samples for the Area 5 Top Deck were unable to be collected during the second quarter of 2019 due to multiple factors, including lack of sufficient precipitation during the latter half of the quarter. This observation was in line with the overall regional precipitation levels for the quarter, which were substantially lower than historical levels in May and June. Therefore, no determinations can be made regarding Area 5's second quarter 2019 stormwater runoff with respect to exceedances of water quality criteria or benchmarks, nor can comparisons be made with background surface water flow (from SW-S1), and leachate effluent (from LS-API).

The inspection reports for the second quarter of 2019 showed no issues with the interim cover system for Area 5 and no indication of LFG presence.

Due to survey control points being covered, there is no recent settlement survey data for second quarter of 2019. New survey points will be assessed for future monitoring.

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 from the Top Deck of Area 5.

# Figures





**LEGEND:**

○ ACTIVE MONITORING STATION

AERIAL FLOWN SEPTEMBER 2014

DATE	REVISION	BY

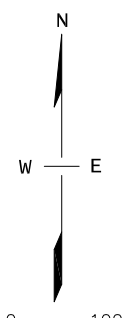


KING COUNTY DEPARTMENT OF  
NATURAL RESOURCES AND PARKS  
SOLID WASTE DIVISION

CEDAR HILLS REGIONAL LANDFILL  
SETTLEMENT MONITORING LOCATIONS

APPROVED VOO DATE Feb 2014  
 RECOMMENDED \_\_\_\_\_ DATE \_\_\_\_\_  
 DESIGNED \_\_\_\_\_ DRAWN \_\_\_\_\_  
 PROJECT NO. \_\_\_\_\_ SURVEY NO. \_\_\_\_\_ SHEET 1 OF 1  
S:\CAD\CEDARHIL\annual report monitoring\vol\01 annual settlements2014.dwg

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



### AREA 5 TOP DECK STORMWATER MONITORING STATION

STATION NUMBER	STATION DESCRIPTION
SW-A5TD1	NORTHEAST PORTION OF AREA 5 TOP DECK WHERE RUNOFF FROM THE TOP DECK EXITS AN 18-INCH CULVERT. SAMPLING TO BE PERFORMED AT THE OUTLET OF THE CULVERT.
SW-A5TD2	NORTH SLOPE OF AREA 5 WHERE RUNOFF, FROM THE NORTH SLOPE FLOWING IN A ROADSIDE DITCH, DRAINS INTO A 12-INCH CULVERT. SAMPLING TO BE PERFORMED AT THE OUTLET OF THE CULVERT.
SW-A5TD3*	WEST OF THE AREA 5 TOP DECK, WITHIN THE SCRAPER ROAD 5 ROADSIDE DITCH AT THE OUTLET END OF A TEMPORARY 12-INCH PIPE. THE TEMPORARY 12-INCH PIPE IS IN PLACE, BECAUSE THE WEST SIDESLOPE GEOMEMBRANE DOES NOT CURRENTLY HAVE COVER SOIL. ONCE THE COVER SOIL IS IN PLACE, THE PIPE WILL BE REMOVED AND THE SAMPLE LOCATION WILL NO LONGER BE SAMPLED.
SW-A5TD4	CENTER OF THE WEST PORTION OF AREA 5 TOP DECK WHERE RUNOFF FROM THE TOP DECK DRAINS INTO THE "VALLEY" RUNNING EAST TO WEST. SAMPLING TO BE PERFORMED AT THE INLET OF THE "VALLEY" DITCH.
SW-A5TD5*	THE OUTLET END OF A TEMPORARY 12-INCH HDPE PIPE THAT CONVEYS RUNOFF FROM THE SOUTHWEST CORNER OF THE AREA 5 TOP DECK. THE TEMPORARY 12-INCH PIPE IS IN PLACE, BECAUSE THE SOUTH SIDESLOPE GEOMEMBRANE DOES NOT CURRENTLY HAVE COVER SOIL. ONCE THE COVER SOIL IS IN PLACE, THE PIPE WILL BE REMOVED AND THE SAMPLE LOCATION WILL NO LONGER BE SAMPLED, BECAUSE FLOW IN THE ROADSIDE DITCH AT THIS LOCATION WILL NO LONGER CONTAIN RUNOFF FROM THE AREA 5 TOP DECK.
SW-A5TD6	WEST OF THE AREA 5 TOP DECK, WITHIN THE SCRAPER ROAD 5 ROADSIDE DITCH, THIS SAMPLE POINT RECEIVES TOP DECK FLOW FROM TWO SIDESLOPE DITCHES THAT INTERSECT AT THE SAMPLE LOCATION.

\*STATIONS SW-A5TD3 AND SW-A5TD5 WERE TEMPORARY STORMWATER MONITORING STATIONS THAT CEASED TO EXIST AS OF JULY 16, 2007.

#### LEGEND:

STORMWATER MONITORING STATION

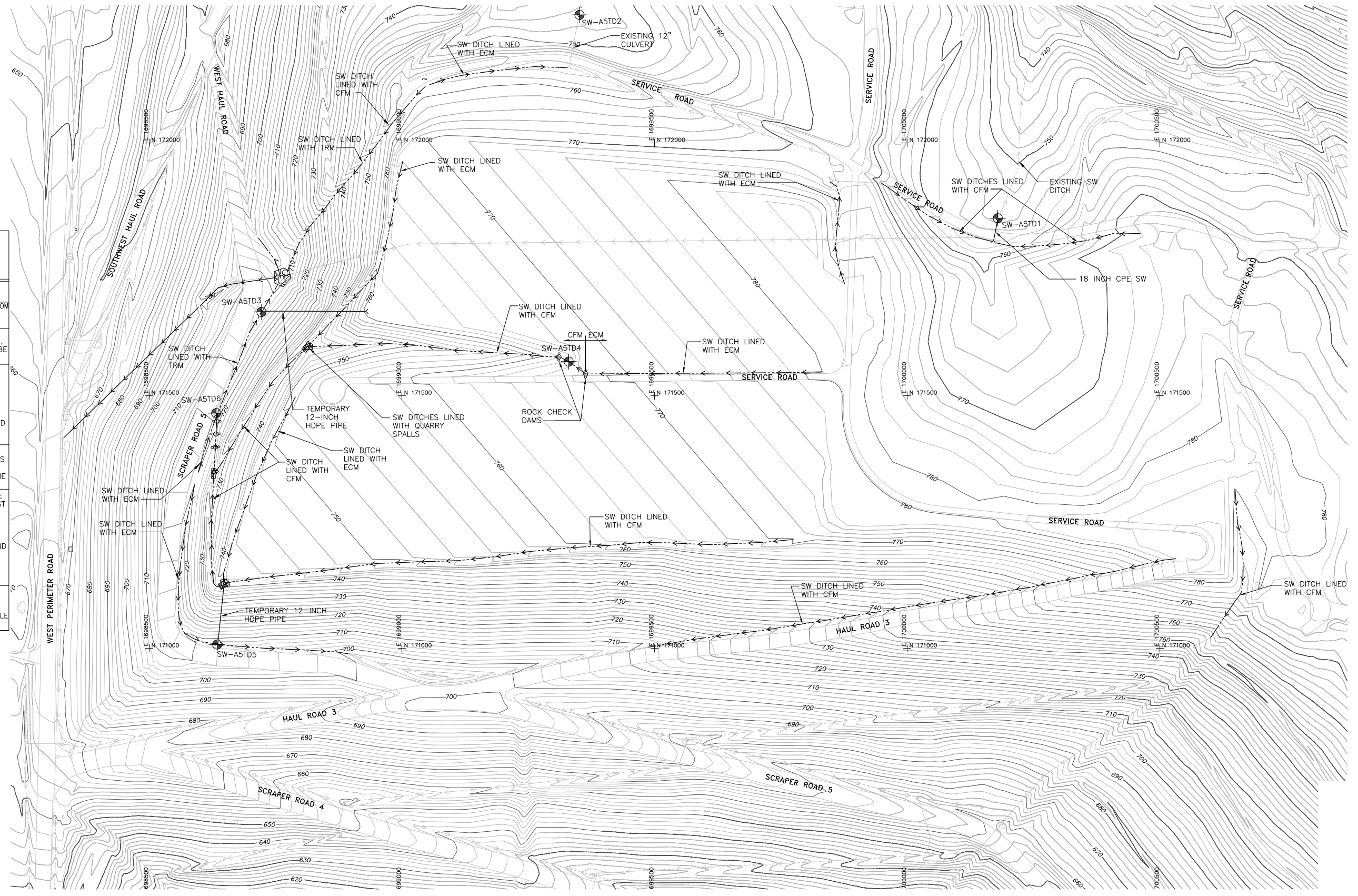


Figure 2  
Area 5 Top Deck  
Stormwater Monitoring Stations

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

Appendix A:  
Inspection Reports

# SOLID WASTE DIVISION

## Landfill Facility Site Inspections

### Type – Permit Compliance

 Inspected By: Stevn Larry

 Date: 4/15/2019

 Location: Cedar Hills Ambient Temperature (45 °F) Weather Condition: Cloudy

### ACTION CODES

A. Gas System		OK	Not OK	B. Leachate System		OK	Not OK	C. Landfill Operations		OK	Not OK
1. Pipe Penetrations		X		1. Pump Stations		X		1. Fueling Stations		X	
2. Collection Piping		X		2. Aeration Lagoons / Basins		X		2. Vehicle Wash Stations		X	
3. Gas Extraction Wells		X		3. Aerators		X		3. Equipment		X	
4. Valve Stations		X		4. Weeps (strip drains)			X	4. Perimeter Fences		X	
5. Odor		X		5. Collection System			X	5. Vegetation		X	
6. Flare Stations		X		a. Collection Pipes		X		6. Landfill Cover		X	
7. Air Compressors		X		b. Forcemains		X		7. Drain Rock		X	
8. Noise Control		X		c. Manholes		X		9. Air Quality		X	
				d. Cleanouts		X		10. Stockpiles		X	
<b>D. Stormwater System</b>				6. Generators		X		11. Vectors		X	
1. Ponds		X		7. Extraction Wells		X		12. Litter		X	
2. CB / Control Structures		X		8. Valve / Cleanout		X		13. Dust control		X	
3. Pipes / Culverts		X		9. Groundwater Extraction Wells		X		14. Other		X	
4. Trash Racks		X									
5. Ditches		X		<b>E. Roadway System</b>				<b>Cover System / ESC</b>			
6. Runoff Control Berms		X		1. Road Sweeping		X		<b>F. Vegetation</b>			
7. Discharge Points		X		2. Access Roads		X		1. Refuse		X	
8. General				3. Road Erosion		X		2. Cover System Erosion		X	
				4. Road Pavement		X		3. Silt Fences/Filter Fabric		X	
				5. Lane Striping		X					
<b>G. Operations</b>											
1. Records Obtain / Review		X									

Item No.	Action Code(s)	Area Code(s) (See below or over for map) Area Map		Status			State Reason if "Fair or Poor"	Date Corrective Action Implemented
				G	F	P		
1	D1	B3			X		North siltation pond remain turbid.	
2	B4	F2				X	Issues persist within the leachate collection system within the toe of Area 7. Surface weeps present that are being controlled.	
3	C1	G5			X		Fuel island operational problems persist. The Fuel island is being evaluated for relocation/replacement.	
5	C6	Many			X		Contractor construction debris has been left at many locations but they are in the process of clearing off site.	
6	D4&5	F3					Asphalt Stormwater ditch along the toe of Area 7 require litter removal from the drop inlets that are partly blocked.	

--	--	--	--	--	--	--	--	--

AREA CODES (for Cedar Hills)

East Main Hill = EMH  
 Southwest Main Hill = SWMH  
 Southeast Pit Area = SEPA  
 Central Pit = CP

G = Good  
 Area 2/3 = A2/3  
 Area 4 = A4  
 Stockpile = SP

F = Fair  
 Aeration Ponds = AP  
 So. Solid Waste Area = SSWA  
 North Flare Station = NFS

P = Poor  
 Area 5 = A5  
 Area 6 = A6  
 Area 7 = A7

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

1. *Regulatory Priority* - permit, regulations & code & compliance driven.
2. *Safety Priority* – potential to adversely affect the safety of workers or the related environment.
3. *Maintenance Priority* – Ensures continuation of existing level of facility operations to ensure proper efficiency without interruption. This priority has the following four potential levels
  - a. *Emergency* - stops the continuing operation of the facility
  - b. *Urgent* – While not completely prohibiting continuing use of the facility, may threaten use of entire facility or continuing use may results in significant & extensive repair of facility.
  - c. *Routine* – need to be completed & not necessarily. May be completed under existing operations preventative programs.
  - d. *Deferred* – desirable but not required to maintain status quo operations (e.g., planting or wild life enhancement projects etc.)

Overall site description day of site inspection: Overall the site appears maintained. The significant issues that persist are the leachate weep at the SW corner toe of Area 7. The hydro-seeding for various locations has not been implemented. The north Stormwater Pond has a slide gate installed at the control structure north of the ponds, but the contractor was not able to enter into the pond to remove accumulated sediment and so the pond will always appear turbid until the sediment can be removed. The curbing around the trailer washout area will need to be repaired during a dryer part of the year. Contractors are removing their stockpiles of construction debris. The litter crew did a fantastic job removing wind-blown litter that had accumulated along the West Haul Road. Photos taken during the site inspection can be found at: P:\SWPublic\CHL\_Public\CH Monthly Site Inspections\SW Inspections\SW Inspection 19\Apr

<i>Category number:</i>	Action to be Completed. Suggested Remedy:
<i>Category number:</i>	Action to be Completed. Suggested Remedy:
<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: 4/15/2019

SITE: Cedar Hills Regional Landfill

**INSPECTOR / QUALIFIED PERSONNEL**

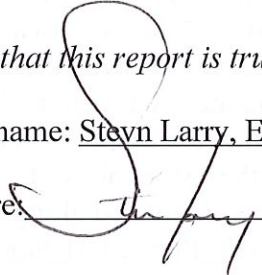
Based on professional judgment, which of the following statements is true: (select one)

- 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: Stevn Larry, Engineer II

Signature:  Date: 4/15/19

**DULY AUTHORIZED REPRESENTATIVE**

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

- 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

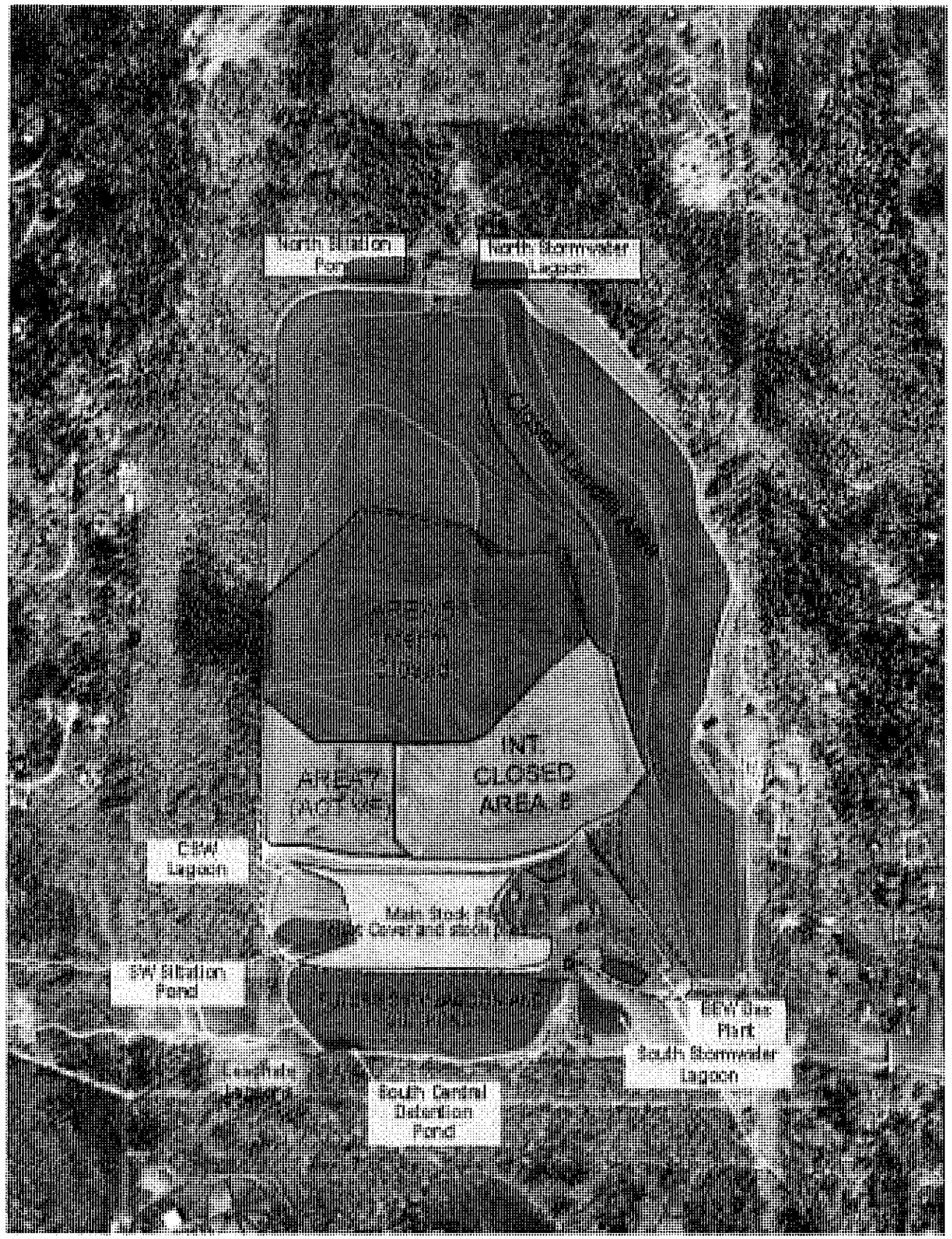
*I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage 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: Bill Berni, Operations Manager

Signature:  Date: 4-15-19

1 | 2 | 3 | 4 | 5 | 6 | 7

A  
B  
C  
D  
E  
F  
G  
H







## SOLID WASTE DIVISION

### Landfill Facility Site Inspections

**Type – Permit Compliance**

Inspected By: Stevn Larry

Date: 5/20/2019

Location: Cedar Hills Ambient Temperature (45 °F) Weather Condition: Cloudy

#### ACTION CODES

A. Gas System	OK	Not OK	B. Leachate System	OK	Not OK	C. Landfill Operations	OK	Not OK
1. Pipe Penetrations	X		1. Pump Stations	X		1. Fueling Stations	X	
2. Collection Piping	X		2. Aeration Lagoons / Basins	X		2. Vehicle Wash Stations	X	
3. Gas Extraction Wells	X		3. Aerators	X		3. Equipment	X	
4. Valve Stations	X		4. Weeps (strip drains)		X	4. Perimeter Fences	X	
5. Odor	X		5. Collection System		X	5. Vegetation	X	
6. Flare Stations	X		a. Collection Pipes	X		6. Landfill Cover	X	
7. Air Compressors	X		b. Forcemains	X		7. Drain Rock	X	
8. Noise Control	X		c. Manholes	X		9. Air Quality	X	
			d. Cleanouts	X		10. Stockpiles	X	
			6. Generators	X		11. Vectors	X	
<b>D. Stormwater System</b>			7. Extraction Wells	X		12. Litter	X	
1. Ponds	X		8. Valve / Cleanout	X		13. Dust control	X	
2. CB / Control Structures	X		9. Groundwater Extraction Wells	X		14. Other	X	
3. Pipes / Culverts	X							
4. Trash Racks	X							
5. Ditches	X		<b>E. Roadway System</b>			<b>Cover System / ESC</b>		
6. Runoff Control Berms	X		1. Road Sweeping	X		<b>F. Vegetation</b>		
7. Discharge Points	X		2. Access Roads	X		1. Refuse	X	
8. General			3. Road Erosion	X		2. Cover System Erosion	X	
			4. Road Pavement	X		3. Silt Fences/Filter Fabric	X	
			5. Lane Striping	X				
<b>G. Operations</b>								
1. Records Obtain / Review	X							

Item No.	Action Code(s)	Area Code(s) (See below or over for map) Area Map	Status			State Reason if "Fair or Poor"	Date Corrective Action Implemented
			G	F	P		
1	B4	F3			X	Surface Weeps observed coming from Area 6's west facing slopes.	
2	B4	F2			X	Issues persist within the leachate collection system within the toe of Area 7. Surface weeps present that are being controlled.	
3							
5							
6							


AREA CODES (for Cedar Hills)

East Main Hill = EMH  
 Southwest Main Hill = SWMH  
 Southeast Pit Area = SEPA  
 Central Pit = CP

G = Good

Area 2/3 = A2/3  
 Area 4 = A4  
 Stockpile = SP

F = Fair

Aeration Ponds = AP  
 So. Solid Waste Area = SSWA  
 North Flare Station = NFS

P = Poor

Area 5 = A5  
 Area 6 = A6  
 Area 7 = A7

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

1. *Regulatory Priority* - permit, regulations & code & compliance driven.
2. *Safety Priority* – potential to adversely affect the safety of workers or the related environment.
3. *Maintenance Priority* – Ensures continuation of existing level of facility operations to ensure proper efficiency without interruption. This priority has the following four potential levels
  - a. *Emergency* - stops the continuing operation of the facility
  - b. *Urgent* – While not completely prohibiting continuing use of the facility, may threaten use of entire facility or continuing use may results in significant & extensive repair of facility.
  - c. *Routine* – need to be completed & not necessarily. May be completed under existing operations preventative programs.
  - d. *Deferred* – desirable but not required to maintain status quo operations (e.g., planting or wild life enhancement projects etc.)

Overall site description day of site inspection: Overall the site appears maintained. Scarcella is wrapping up the Area 8 construction and has mostly demobilize their equipment with just a few minor material stock piles to remove. The significant issues that persist are the leachate weep at the SW corner toe of Area 7 and along Scrapper Road 6 along Area 6. Photos taken during the site inspection can be found at:  
[P:\SWPublic\CHL\\_Public\CH Monthly Site Inspections\SW Inspections\SW Inspection 19\Apr](P:\SWPublic\CHL_Public\CH Monthly Site Inspections\SW Inspections\SW Inspection 19\Apr)

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

SITE: Cedar Hills Regional Landfill

**INSPECTOR / QUALIFIED PERSONNEL**

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

\_\_\_ *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: Stevn Larry, Engineer II

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**DULY AUTHORIZED REPRESENTATIVE**

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

\_\_\_ *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: Bill Berni, Operations Manager

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

1 | 2 | 3 | 4 | 5 | 6 | 7

A

B

C

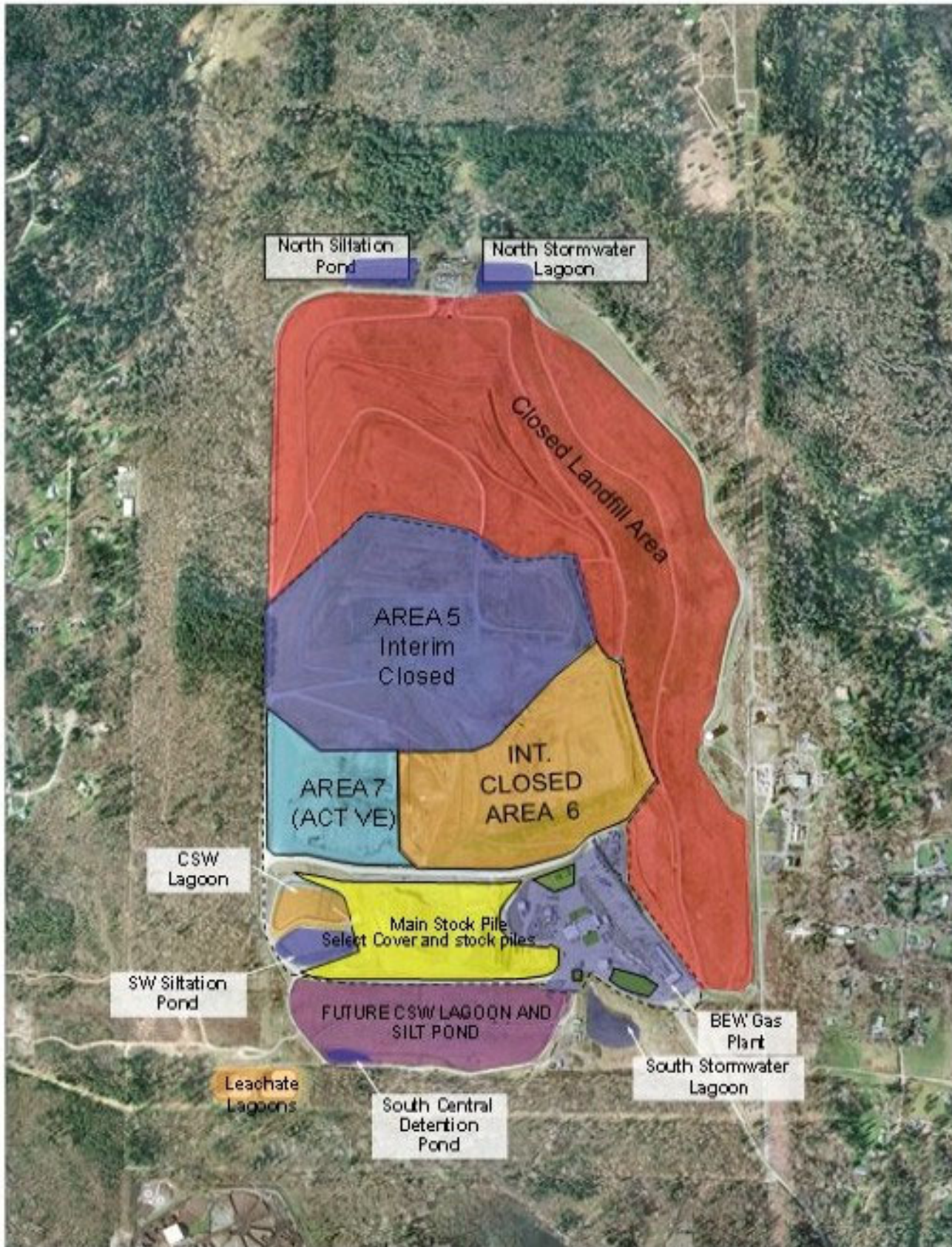
D

E

F

G

H





## SOLID WASTE DIVISION

### Landfill Facility Site Inspections

**Type – Permit Compliance**

Inspected By: Stevn Larry

Date: 6/24/2019

Location: Cedar Hills Ambient Temperature (45 °F) Weather Condition: Cloudy

#### ACTION CODES

A. Gas System		OK	Not OK	B. Leachate System		OK	Not OK	C. Landfill Operations		OK	Not OK
1. Pipe Penetrations		X		1. Pump Stations		X		1. Fueling Stations		X	
2. Collection Piping		X		2. Aeration Lagoons / Basins		X		2. Vehicle Wash Stations		X	
3. Gas Extraction Wells		X		3. Aerators		X		3. Equipment		X	
4. Valve Stations		X		4. Weeps (strip drains)			X	4. Perimeter Fences		X	
5. Odor		X		5. Collection System			X	5. Vegetation		X	
6. Flare Stations		X		a. Collection Pipes		X		6. Landfill Cover		X	
7. Air Compressors		X		b. Forcemains		X		7. Drain Rock		X	
8. Noise Control		X		c. Manholes		X		9. Air Quality		X	
				d. Cleanouts		X		10. Stockpiles		X	
<b>D. Stormwater System</b>				6. Generators		X		11. Vectors		X	
1. Ponds		X		7. Extraction Wells		X		12. Litter			X
2. CB / Control Structures			X	8. Valve / Cleanout		X		13. Dust control		X	
3. Pipes / Culverts		X		9. Groundwater Extraction Wells		X		14. Other		X	
4. Trash Racks			X	<b>E. Roadway System</b>				<b>Cover System / ESC</b>			
5. Ditches			X	1. Road Sweeping		X		<b>F. Vegetation</b>			
6. Runoff Control Berms		X		2. Access Roads		X		1. Refuse		X	
7. Discharge Points		X		3. Road Erosion		X		2. Cover System Erosion			X
8. General				4. Road Pavement		X		3. Silt Fences/Filter Fabric		X	
<b>G. Operations</b>				5. Lane Striping		X					
1. Records Obtain / Review		X									

Item No.	Action Code(s)	Area Code(s) (See below or over for map) Area Map		Status			State Reason if "Fair or Poor"	Date Corrective Action Implemented
				G	F	P		
1	B4	F3				X	Surface Weeps observed coming from Area 6's west facing slopes.	
2	B4	F2				X	Issues persist within the leachate collection system within the toe of Area 7. Surface weeps present that are being controlled.	
3	C12	F3				X	Litter accumulation in the stormwater ditches and on Area 7 south facing liner and the pipelines leading to the energy dissipater.	
4	D2	G4				X	South stormwater lagoon control structure needs a bird cage on top to prevent accidental fall in and blackberry vines removed for better access.	



5	D(4&5)	F3				X	Leachate accumulation in the stormwater ditches along the South toe of Area 7. An investigation to determine the source is underway.
6	F2	G4				X	The plastic cover on the Area 8 Soil Stock piles located next to the new wheel wash need removing and the area hydroseeded.

AREA CODES (for Cedar Hills)

East Main Hill = EMH  
 Southwest Main Hill = SWMH  
 Southeast Pit Area = SEPA  
 Central Pit = CP

G = Good

Area 2/3 = A2/3  
 Area 4 = A4  
 Stockpile = SP

F = Fair

Aeration Ponds = AP  
 So. Solid Waste Area = SSWA  
 North Flare Station = NFS

P = Poor

Area 5 = A5  
 Area 6 = A6  
 Area 7 = A7

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

1. *Regulatory Priority* - permit, regulations & code & compliance driven.
2. *Safety Priority* – potential to adversely affect the safety of workers or the related environment.
3. *Maintenance Priority* – Ensures continuation of existing level of facility operations to ensure proper efficiency without interruption. This priority has the following four potential levels
  - a. *Emergency* - stops the continuing operation of the facility
  - b. *Urgent* – While not completely prohibiting continuing use of the facility, may threaten use of entire facility or continuing use may result in significant & extensive repair of facility.
  - c. *Routine* – need to be completed & not necessarily. May be completed under existing operations preventative programs.
  - d. *Deferred* – desirable but not required to maintain status quo operations (e.g., planting or wild life enhancement projects etc.)

Overall site description day of site inspection: Overall the site appears maintained. The significant issues that persist are the leachate weep at the SW corner toe of Area 7 and along Scrapper Road 6 along Area 6. Other items:

- 1) There's considerable amount of accumulated litter in the toe of Area 7 "green liner" stormwater ditch's rock check dams.
- 2) Accumulated litter along the Area 7 CSW pipeline leading to the energy dissipater.
- 3) The Area 8 soil stockpile cover plastic that needs removing and hydro-seeding installed.
- 4) A bird cage installed on the South Stormwater Lagoon control structure to prevent fall in.

Photos taken during the site inspection can be found at: [P:\SWPublic\CHL\\_Public\CH Monthly Site](P:\SWPublic\CHL_Public\CH Monthly Site)

<i>Category number:</i>	Action to be Completed. Suggested Remedy:
<i>Category number:</i>	Action to be Completed. Suggested Remedy:
<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: 6/24/19

SITE: Cedar Hills Regional Landfill

**INSPECTOR / QUALIFIED PERSONNEL**

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

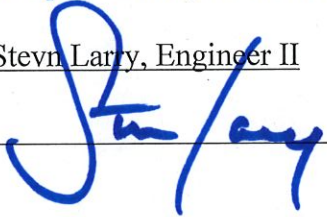
*The site is in compliance with the terms and conditions of the SWPPP and the ISGP.*

*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: Stevn Larry, Engineer II

Signature:  Date: 6/24/19

**DULY AUTHORIZED REPRESENTATIVE**

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

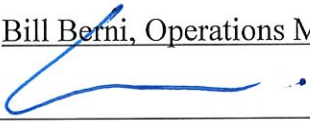
*The site is in compliance with the terms and conditions of the SWPPP and the ISGP.*

*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: Bill Berni, Operations Manager

Signature:  Date: 6-24-19



## Cedar Hills Area 5 Maintenance

for the period 04/01/2019 to 06/30/2019

*Click the blue 'Y' to see notes*

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
<b>Area 5</b>						
	CHAREA5	0000020930	CLOSED	Monthly Gas System PM	04/14/2019	N
	CHAREA5	0000020930	CLOSED	Monthly Stormwater PM	04/14/2019	N
	CHAREA5	0000020930	CLOSED	Monthly Cover System PM	04/14/2019	N
	CHAREA5	0000021065	CLOSED	Monthly Gas System PM	05/08/2019	N
	CHAREA5	0000021065	CLOSED	Monthly Stormwater PM	05/08/2019	N
	CHAREA5	0000021065	CLOSED	Monthly Cover System PM	05/08/2019	N
	CHAREA5	0000021199	CLOSED	Monthly Gas System PM	06/03/2019	N
	CHAREA5	0000021199	CLOSED	Monthly Stormwater PM	06/03/2019	N
	CHAREA5	0000021199	CLOSED	Monthly Cover System PM	06/03/2019	N
	CHAREA5E	0000020907	CLOSED	Monthly Header PM	04/03/2019	N
	CHAREA5E	0000021002	CLOSED	Monthly Header PM	05/07/2019	N
	CHAREA5E	0000021155	CLOSED	Monthly Header PM	06/07/2019	N
	CHAREA5W	0000020906	CLOSED	Monthly Header PM	04/03/2019	N
	CHAREA5W	0000021001	CLOSED	Monthly Header PM	05/07/2019	N
	CHAREA5W	0000021154	CLOSED	Monthly Header PM	06/26/2019	N



## Cedar Hills Landfill Storm Water Pollution Prevention Plan Maintenance

for the period 04/01/2019 to 06/30/2019

*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	0000042393	CLOSED	PMM	04/02/2019	N
	Cedar Hills	0000042781	CLOSED	PMM	05/10/2019	N
	Cedar Hills	0000043094	CLOSED	PMM	06/07/2019	N

### Control Structures

	Cedar Hills	0000042991	CLOSED	PMS	06/07/2019	N
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### Trash Racks

	Cedar Hills	0000042392	CLOSED	PMW	04/02/2019	N
	Cedar Hills	0000042476	CLOSED	PMW	04/08/2019	N
	Cedar Hills	0000042553	CLOSED	PMW	04/17/2019	N
	Cedar Hills	0000042625	CLOSED	PMW	04/23/2019	N
	Cedar Hills	0000042669	CLOSED	PMW	05/02/2019	N
	Cedar Hills	0000042780	CLOSED	PMW	05/10/2019	N
	Cedar Hills	0000042852	CLOSED	PMW	05/16/2019	N
	Cedar Hills	0000042912	CLOSED	PMW	05/22/2019	N
	Cedar Hills	0000042946	CLOSED	PMW	05/28/2019	N
	Cedar Hills	0000043093	CLOSED	PMW	06/07/2019	N
	Cedar Hills	0000043191	CLOSED	PMW	06/14/2019	N
	Cedar Hills	0000043257	CLOSED	PMW	06/20/2019	Y
	Cedar Hills	0000043292	CLOSED	PMW	06/24/2019	N

### Ditches

	Cedar Hills	0000042392	CLOSED	PMW	04/02/2019	N
	Cedar Hills	0000042393	CLOSED	PMM	04/02/2019	N
	Cedar Hills	0000042476	CLOSED	PMW	04/08/2019	N
	Cedar Hills	0000042553	CLOSED	PMW	04/17/2019	N
	Cedar Hills	0000042625	CLOSED	PMW	04/23/2019	N
	Cedar Hills	0000042669	CLOSED	PMW	05/02/2019	N
	Cedar Hills	0000042780	CLOSED	PMW	05/10/2019	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	Cedar Hills	0000042781	CLOSED	PMM	05/10/2019	N
	Cedar Hills	0000042852	CLOSED	PMW	05/16/2019	N
	Cedar Hills	0000042912	CLOSED	PMW	05/22/2019	N
	Cedar Hills	0000042946	CLOSED	PMW	05/28/2019	N
	Cedar Hills	0000042990	CLOSED	PMQ	06/07/2019	N
	Cedar Hills	0000043093	CLOSED	PMW	06/07/2019	N
	Cedar Hills	0000043094	CLOSED	PMM	06/07/2019	N
	Cedar Hills	0000043191	CLOSED	PMW	06/14/2019	N
	Cedar Hills	0000043257	CLOSED	PMW	06/20/2019	Y
	Cedar Hills	0000043292	CLOSED	PMW	06/24/2019	N

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### Pipes/Culverts

	Cedar Hills	0000042990	CLOSED	PMQ	06/07/2019	N
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### Ponds/Lagoons

	Cedar Hills	0000042392	CLOSED	PMW	04/02/2019	N
	Cedar Hills	0000042476	CLOSED	PMW	04/08/2019	N
	Cedar Hills	0000042553	CLOSED	PMW	04/17/2019	N
	Cedar Hills	0000042625	CLOSED	PMW	04/23/2019	N
	Cedar Hills	0000042669	CLOSED	PMW	05/02/2019	N
	Cedar Hills	0000042780	CLOSED	PMW	05/10/2019	N
	Cedar Hills	0000042852	CLOSED	PMW	05/16/2019	N
	Cedar Hills	0000042912	CLOSED	PMW	05/22/2019	N
	Cedar Hills	0000042946	CLOSED	PMW	05/28/2019	N
	Cedar Hills	0000042990	CLOSED	PMQ	06/07/2019	N
	Cedar Hills	0000042991	CLOSED	PMS	06/07/2019	N
	Cedar Hills	0000043093	CLOSED	PMW	06/07/2019	N
	Cedar Hills	0000043191	CLOSED	PMW	06/14/2019	N
	Cedar Hills	0000043257	CLOSED	PMW	06/20/2019	Y
	Cedar Hills	0000043292	CLOSED	PMW	06/24/2019	N

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### General

	Cedar Hills	0000042392	CLOSED	PMW	04/02/2019	N
	Cedar Hills	0000042476	CLOSED	PMW	04/08/2019	N
	Cedar Hills	0000042553	CLOSED	PMW	04/17/2019	N



Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	Cedar Hills	0000042625	CLOSED	PMW	04/23/2019	N
	Cedar Hills	0000042669	CLOSED	PMW	05/02/2019	N
	Cedar Hills	0000042780	CLOSED	PMW	05/10/2019	N
	Cedar Hills	0000042852	CLOSED	PMW	05/16/2019	N
	Cedar Hills	0000042912	CLOSED	PMW	05/22/2019	N
	Cedar Hills	0000042946	CLOSED	PMW	05/28/2019	N
	Cedar Hills	0000042990	CLOSED	PMQ	06/07/2019	N
	Cedar Hills	0000043093	CLOSED	PMW	06/07/2019	N
	Cedar Hills	0000043191	CLOSED	PMW	06/14/2019	N
	Cedar Hills	0000043257	CLOSED	PMW	06/20/2019	Y
	Cedar Hills	0000043292	CLOSED	PMW	06/24/2019	N

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### Leachate System

	Cedar Hills	0000042990	CLOSED	PMQ	06/07/2019	N
	CHPS1	0000042384	CLOSED	PMW	04/02/2019	N
	CHPS1	0000042510	CLOSED	PMW	04/08/2019	N
	CHPS1	0000042551	CLOSED	PMW	04/16/2019	N
	CHPS1	0000042596	CLOSED	PMW	04/22/2019	N
	CHPS1	0000042649	CLOSED	PMW	04/29/2019	N
	CHPS1	0000042712	CLOSED	PMW	05/06/2019	N
	CHPS1	0000042824	CLOSED	PMW	05/14/2019	N
	CHPS1	0000042893	CLOSED	PMW	05/22/2019	N
	CHPS1	0000042954	CLOSED	PMW	05/27/2019	N
	CHPS1	0000043125	CLOSED	PMW	06/05/2019	N
	CHPS1	0000043164	CLOSED	PMW	06/11/2019	N
	CHPS1	0000043242	CLOSED	PMW	06/18/2019	N
	CHPS1	0000043316	CLOSED	PMW	06/25/2019	N
	CHPS2	0000042385	CLOSED	PMW	04/02/2019	N
	CHPS2	0000042509	CLOSED	PMW	04/08/2019	N
	CHPS2	0000042549	CLOSED	PMW	04/16/2019	N
	CHPS2	0000042595	CLOSED	PMW	04/22/2019	N
	CHPS2	0000042648	CLOSED	PMW	04/29/2019	N
	CHPS2	0000042711	CLOSED	PMW	05/06/2019	N
	CHPS2	0000042825	CLOSED	PMW	05/14/2019	N
	CHPS2	0000042894	CLOSED	PMW	05/22/2019	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	CHPS2	0000042955	CLOSED	PMW	05/27/2019	N
	CHPS2	0000043124	CLOSED	PMW	06/05/2019	N
	CHPS2	0000043165	CLOSED	PMW	06/11/2019	N
	CHPS2	0000043241	CLOSED	PMW	06/18/2019	N
	CHPS2	0000043315	CLOSED	PMW	06/25/2019	N
	CHPS3	0000042382	CLOSED	PMW	04/02/2019	N
	CHPS3	0000042507	CLOSED	PMW	04/08/2019	N
	CHPS3	0000042547	CLOSED	PMW	04/16/2019	Y
	CHPS3	0000042593	CLOSED	PMW	04/22/2019	N
	CHPS3	0000042646	CLOSED	PMW	04/29/2019	N
	CHPS3	0000042708	CLOSED	PMW	05/06/2019	N
	CHPS3	0000042827	CLOSED	PMW	05/14/2019	N
	CHPS3	0000042896	CLOSED	PMW	05/22/2019	N
	CHPS3	0000042957	CLOSED	PMW	05/27/2019	N
	CHPS3	0000043122	CLOSED	PMW	06/05/2019	N
	CHPS3	0000043160	CLOSED	PMW	06/11/2019	N
	CHPS3	0000043239	CLOSED	PMW	06/18/2019	N
	CHPS3	0000043313	CLOSED	PMW	06/25/2019	N
	CHPS4	0000042386	CLOSED	PMW	04/02/2019	Y
	CHPS4	0000042506	CLOSED	PMW	04/08/2019	N
	CHPS4	0000042546	CLOSED	PMW	04/16/2019	N
	CHPS4	0000042592	CLOSED	PMW	04/22/2019	N
	CHPS4	0000042645	CLOSED	PMW	04/29/2019	Y
	CHPS4	0000042707	CLOSED	PMW	05/06/2019	N
	CHPS4	0000042828	CLOSED	PMW	05/14/2019	N
	CHPS4	0000042897	CLOSED	PMW	05/22/2019	N
	CHPS4	0000042958	CLOSED	PMW	05/27/2019	N
	CHPS4	0000043121	CLOSED	PMW	06/05/2019	Y
	CHPS4	0000043162	CLOSED	PMW	06/11/2019	Y
	CHPS4	0000043238	CLOSED	PMW	06/18/2019	Y
	CHPS4	0000043310	CLOSED	PMW	06/25/2019	N
	LEPS	0000042377	CLOSED	PMW	04/02/2019	N
	LEPS	0000042404	CLOSED	PMM	04/04/2019	Y
	LEPS	0000042503	CLOSED	PMW	04/08/2019	N
	LEPS	0000042543	CLOSED	PMW	04/16/2019	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	LEPS	0000042589	CLOSED	PMW	04/22/2019	N
	LEPS	0000042642	CLOSED	PMW	04/29/2019	N
	LEPS	0000042704	CLOSED	PMW	05/06/2019	N
	LEPS	0000042723	CLOSED	PMM	05/06/2019	Y
	LEPS	0000042820	CLOSED	PMW	05/14/2019	N
	LEPS	0000042899	CLOSED	PMW	05/22/2019	N
	LEPS	0000042950	CLOSED	PMW	05/27/2019	N
	LEPS	0000043119	CLOSED	PMW	06/05/2019	N
	LEPS	0000043127	CLOSED	PMM	06/11/2019	Y
	LEPS	0000043236	CLOSED	PMW	06/18/2019	N
	LEPS	0000043312	CLOSED	PMW	06/25/2019	N

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#### Landfill Cover

CHAPONDS	0000020928	CLOSED	PMV	04/14/2019	N
CHAPONDS	0000021063	CLOSED	PMV	05/03/2019	N
CHAPONDS	0000021197	CLOSED	PMV	06/03/2019	N
CHAREA4	0000020929	CLOSED	PMV	04/14/2019	N
CHAREA4	0000021064	CLOSED	PMV	05/03/2019	N
CHAREA4	0000021198	CLOSED	PMV	06/03/2019	N
CHAREA5	0000020930	CLOSED	PMV	04/14/2019	N
CHAREA5	0000021065	CLOSED	PMV	05/08/2019	N
CHAREA5	0000021199	CLOSED	PMV	06/03/2019	N
CHAREA6	0000020931	CLOSED	PMV	04/14/2019	N
CHAREA6	0000021066	CLOSED	PMV	05/08/2019	N
CHAREA6	0000021200	CLOSED	PMV	06/03/2019	N
CHAREAS23	0000020933	CLOSED	PMV	04/14/2019	N
CHAREAS23	0000021068	CLOSED	PMV	05/08/2019	N
CHAREAS23	0000021202	CLOSED	PMV	06/03/2019	N
CHCENTRALPIT	0000020934	CLOSED	PMV	04/14/2019	N
CHCENTRALPIT	0000021069	CLOSED	PMV	05/08/2019	N
CHCENTRALPIT	0000021203	CLOSED	PMV	06/03/2019	N
CHEMH	0000020935	CLOSED	PMV	04/14/2019	N
CHEMH	0000021070	CLOSED	PMV	05/08/2019	N
CHEMH	0000021204	CLOSED	PMV	06/03/2019	N
CHNFLARESTN	0000020939	CLOSED	PMV	04/14/2019	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	CHNFLARESTN	0000021074	CLOSED	PMV	05/03/2019	N
	CHNFLARESTN	0000021208	CLOSED	PMV	06/10/2019	N
	CHSEPA	0000020936	CLOSED	PMV	04/14/2019	N
	CHSEPA	0000021071	CLOSED	PMV	05/08/2019	N
	CHSEPA	0000021205	CLOSED	PMV	06/03/2019	N
	CHSSWA	0000020937	CLOSED	PMV	04/14/2019	N
	CHSSWA	0000021072	CLOSED	PMV	05/08/2019	N
	CHSSWA	0000021206	CLOSED	PMV	06/03/2019	N
	CHSTOCKPILE	0000020927	CLOSED	PMV	04/14/2019	N
	CHSTOCKPILE	0000021062	CLOSED	PMV	05/03/2019	N
	CHSTOCKPILE	0000021196	CLOSED	PMV	06/03/2019	N
	CHSWMH	0000020938	CLOSED	PMV	04/14/2019	N
	CHSWMH	0000021073	CLOSED	PMV	05/03/2019	N
	CHSWMH	0000021207	CLOSED	PMV	06/03/2019	N

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**Landfill Gas**

	CHAREA5E	0000020855	CLOSED	PMW	04/02/2019	N
	CHAREA5E	0000020943	CLOSED	PMW	04/21/2019	N
	CHAREA5E	0000020986	CLOSED	PMW	05/01/2019	N
	CHAREA5E	0000021079	CLOSED	PMW	05/17/2019	N
	CHAREA5E	0000021127	CLOSED	PMW	06/09/2019	N
	CHAREA5E	0000021212	CLOSED	PMW	06/24/2019	N
	CHAREA5W	0000020856	CLOSED	PMW	04/02/2019	N
	CHAREA5W	0000020944	CLOSED	PMW	04/21/2019	N
	CHAREA5W	0000020987	CLOSED	PMW	05/03/2019	N
	CHAREA5W	0000021080	CLOSED	PMW	05/15/2019	N
	CHAREA5W	0000021128	CLOSED	PMW	06/09/2019	N
	CHAREA5W	0000021213	CLOSED	PMW	06/24/2019	N
	CHAREA6	0000020902	CLOSED	PMW	04/04/2019	N
	CHAREA6	0000020959	CLOSED	PMW	04/28/2019	N
	CHAREA6	0000020997	CLOSED	PMW	05/15/2019	N
	CHAREA6	0000021093	CLOSED	PMW	05/29/2019	N
	CHAREA6	0000021151	CLOSED	PMW	06/11/2019	N
	CHAREA6	0000021151	CLOSED	PMW	06/12/2019	N
	CHAREAS23	0000020865	CLOSED	PMW	04/02/2019	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	CHAREAS23	0000020949	CLOSED	PMW	04/18/2019	N
	CHAREAS23	0000021030	CLOSED	PMW	05/18/2019	N
	CHAREAS23	0000021103	CLOSED	PMW	05/29/2019	N
	CHAREAS23	0000021133	CLOSED	PMW	06/04/2019	N
	CHAREAS23	0000021218	CLOSED	PMW	06/21/2019	N
	CHCMH	0000020860	CLOSED	PMW	04/04/2019	N
	CHCMH	0000020860	CLOSED	PMW	04/05/2019	N
	CHCMH	0000020945	CLOSED	PMW	04/17/2019	N
	CHCMH	0000020945	CLOSED	PMW	04/18/2019	N
	CHCMH	0000020945	CLOSED	PMW	04/25/2019	N
	CHCMH	0000020991	CLOSED	PMW	05/01/2019	N
	CHCMH	0000021081	CLOSED	PMW	05/15/2019	N
	CHCMH	0000021119	CLOSED	PMW	06/05/2019	N
	CHCMH	0000021119	CLOSED	PMW	06/07/2019	N
	CHCMH	0000021119	CLOSED	PMW	06/08/2019	N
	CHCMH	0000021214	CLOSED	PMW	06/21/2019	N
	CHCMH	0000021214	CLOSED	PMW	06/23/2019	N
	CHCMH	0000021214	CLOSED	PMW	06/26/2019	N
	CHEMH	0000020854	CLOSED	PMW	04/13/2019	N
	CHEMH	0000020942	CLOSED	PMW	04/24/2019	N
	CHEMH	0000020985	CLOSED	PMW	05/09/2019	N
	CHEMH	0000021078	CLOSED	PMW	05/29/2019	N
	CHEMH	0000021126	CLOSED	PMW	06/04/2019	N
	CHEMH	0000021211	CLOSED	PMW	06/18/2019	N
	CHSEPA	0000020900	CLOSED	PMW	04/25/2019	N
	CHSEPA	0000020957	CLOSED	PMW	04/30/2019	N
	CHSEPA	0000021011	CLOSED	PMW	05/08/2019	N
	CHSEPA	0000021085	CLOSED	PMW	05/21/2019	N
	CHSEPA	0000021138	CLOSED	PMW	06/04/2019	N
	CHSEPA	0000021220	CLOSED	PMW	06/13/2019	N

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**Landfill Roads**

	CHACTIVEAREA	0000020918	CLOSED	PMR	04/14/2019	N
	CHACTIVEAREA	0000021053	CLOSED	PMR	05/03/2019	N
	CHACTIVEAREA	0000021187	CLOSED	PMR	06/03/2019	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	CHMAINGATE	0000020919	CLOSED	PMR	04/14/2019	N
	CHMAINGATE	0000021054	CLOSED	PMR	05/03/2019	N
	CHMAINGATE	0000021188	CLOSED	PMR	06/03/2019	N
	CHPSR	0000020920	CLOSED	PMR	04/14/2019	N
	CHPSR	0000021055	CLOSED	PMR	05/03/2019	N
	CHPSR	0000021189	CLOSED	PMR	06/03/2019	N
	CHSTOCKPILE	0000020927	CLOSED	PMR	04/14/2019	N
	CHSTOCKPILE	0000021062	CLOSED	PMR	05/03/2019	N
	CHSTOCKPILE	0000021196	CLOSED	PMR	06/03/2019	N

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### 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

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

Equipment: cedar hills License: na

Location: 20 Color:  
 Year: 2006 Serial: na  
 Make: UD Engine:  
 Model: UD  
 Class: ZZZZZZZGS: Landfill Gas - not classified

TECHNICIAN COPY



**WO#: 0000021132**  
 Date In: 05/25/2019 10:29  
 Date Promised: 05/26/2019 10:29  
 Date Out: 00:00

WO Status: A Last WO#:0000021052  
 WO Priority: Last WO Date: 04/22/2019  
 Track DownTime: Y Operator: jd

Tire Size 1:	GVW: 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	Cedar Hills
Fuel Cap2: 0.000	

METERS

WO Meter	Reading	Override?	Eq Meter	Actual	LTD
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PM SERVICE

Type	Cycle	Next Due	Description
I	A - SET AN ANNUAL DATE	07/15/2019	Annual Inspection
Q	0 - MONTHS	06/30/2019	Quarterly Inspection
S	0 - MONTHS	07/15/2019	Scheduled Inspection
X	0 - MONTHS	05/10/2019	Prohibited Activities

WARRANTY INFORMATION

Type	Cycle	Date Expires	Description
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REPAIRS

RTY	Description	Status	MID	Est. Labor	Shop
PMQ BS	PM Service   PMQ per list   Billable   Scheduled, Target	0	710 <i>BC</i>	0.00000	Gas
PMQ BS	PM Service   PMQ per list   Billable   Scheduled, Target	0	765 <i>B.B.</i>	0.00000	Gas
PMQ BS	PM Service   PMQ per list   Billable   Scheduled, Target	0	763 <i>JP</i>	0.00000	Gas

NOTES



Work Order Task List

Repair Code: PMQ BS  
 Equipment: cedar hills  
 Work Order: 0000021132

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	<input checked="" type="checkbox"/>				

6-23-19 3.5 hrs  
 6/17/19 5 hrs  
 6/18/19 10 hrs  
 6/19/19 10 Hrs  
 6/20/19 10 hrs  
 6/24/19 5 hrs  
 6/25/17 ~~7.5~~ hrs  
 6/26/19 10 hrs





























**Figure 1- Plot of GPS Generated Track Lines During Methane Surface Emission Monitoring 2019 2nd Quarter.**

